

2-WAY OPERATOR OFFICE TRUNK CIRCUIT SD-27593-01

TESTS

USING TRUNK TEST CIRCUIT SD-25918-01

AND NO. 1, 3, 3C, OR 3CL TOLL SWITCHBOARDS

NO. 5 CROSSBAR OFFICES

1. GENERAL

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1.01 This section describes a method of testing wire-spring-relay type 2-way operator office trunk circuits SD-27593-01, using trunk test circuit SD-25918-01 and the No. 1, 3, 3C, or 3CL toll switchboard in the operator office (distant office). Miscellaneous tests which are made without the trunk test circuit or toll switchboard are also included in this section.

C. Recall and Customer Hold: The following features are checked. (1) The ability of the trunk to transmit a recall signal from the customer to the operator. (2) The ability of the trunk to hold under control of the originating customer and to resignal the operator.

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1.02 This section is reissued for the following reasons:

D. Trunk Busy: The following features are checked. (1) Seizure by master test frame when trunk is made busy. (2) Busy condition to service call when trunk is made busy.

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(a) To add Electronic Translation System (ETS) features to Tests A through H.

(b) To revise the selection of circuits and test conditions at the master test frame (MTF) in accordance with Section 218-106-301.

(c) To make minor changes as required.

E. Coin Control—Coin Trunks Arranged for Automatic Coin Return When Operator Answers: The following features are checked. (1) Ability of trunk to return initial coin when operator answers. (2) Ability of trunk to collect or to return the coin under control of the operator. (3) Coin service improvement (dial-tone-first).

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This issue does not affect the Equipment Test List.

1.03 The tests covered are:

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A. Operation: The following features are checked. (1) Seizure of the trunk circuit and completion of the connection to the operator. (2) Supervisory and release features of the trunk.

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B. Ringback: This test checks the ability of the trunk to transmit a ringback signal from operator to customer.

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F. Coin Control—Coin Trunks Not Arranged for Automatic Coin Return: The following features are checked. (1) The ability of the trunk to collect and to return a coin under control of the operator. (2) The ability of the trunk to disregard a signal (from the switchboard) to apply coin collect or coin return potential to a noncoin line.

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G. Coin Return on Abandoned Call: This test checks that the coin is returned on a call abandoned before the operator answers.	10
H. Disconnect from Outgoing Call: This test checks the ability of the trunk to signal the operator when the customer disconnects and to collect the coin after a coin customer and operator have disconnected.	11
I. Alarm Forwarding: This test checks that the alarm sending circuit can seize the trunk and that the trunk signals the operator and gives a verification signal when the operator dials the alarm checking terminal.	12
J. False-Busy and False-Idle Conditions: This test checks for continuity and crosses on the F, BT, and FT leads.	13
K. Call to Incoming Trunk Test Line: The following features are checked. (1) Seizure of trunk and incoming register. (2) Application of ringing. (3) Pretrip and trip. (4) Supervision.	14
L. Ringing: The following features are checked. (1) Application of various ringing combinations. (2) The polarity of terminating tip and ring.	14
M. Line-Busy—Regular Call: This test checks the return of busy tone and lamp flashes when called line is busy.	18
N. Line Busy—No Test Call: The following features are checked. (1) Seizure of the trunk circuit and completion of the connection to the subscriber. (2) Supervision and release of the no-test feature.	18
1.04 Tests A through I and K through N will require action or verification at the DSA or toll switchboard (operator office) and the satellite office (office in which the 2-way operator trunk is located).	

1.05 The tests outlined in this section should preferably be made during periods of light traffic.

1.06 Local instructions with reference to recording any register operations associated with the PC lead should be followed.

1.07 Lettered Steps: A letter a, b, c, etc, added to a step number in Parts 3 and 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.

1.08 ♦The manner of selecting some circuits and test conditions at the 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.

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

1.10 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.

1.11 When the office is arranged for 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 section for the office arrangement.

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

1.12 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 scanning to be repeated on the FT lamp at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, scanning will continue to be repeated on the lamp, 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.♦

2. APPARATUS

Tests A Through I, K, and L

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

3. PREPARATION

STEP

ACTION

VERIFICATION

Refer to 1.04 through 1.12

Tests A Through H

1 From office records, determine tones to be transmitted to operator.

Note: Low tone, interrupted low tone, or no tone is transmitted to the answering operator to identify the class of service of the call as noncoin dial zero, coin dial zero, etc.

2 At distant office—
Have distant office make busy its associated outgoing trunk.

3 At master test frame (MTF)—
Restore all keys; set all switches to OFF.

4 Momentarily operate RL key.

All lamps extinguished.

5 ♦Select trunk under test.

6 Operate GPA/GPB key as required when trunk under test is in an allotted trunk group.

7 Select MISC class of test.

2.02 Trunk test circuit, SD-25918-01.

Tests A Through I and K Through N

2.03 1, 3, 3C, 3CL toll switchboard.

Test D

2.04 322A (make-busy) plug.

Test J

2.05 Oscillator J94730B (SD-95616-01), part of 1A fault locator test set J94730A.

2.06 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 419A or 624B tool (as required). This test cord is used for making connections to terminal strip terminals.

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STEP	ACTION	VERIFICATION
8	Select originating class of call and associated translator indication.	
9	Operate FS, TS keys.	
10	Operate TLK, KY keys.	
11	Select completing marker.	
12	Select route advance, as required.	
13	Select class of service and rate treatment as required for access to trunk under test.	
14	Select AO digit.	
15a	If trunk under test is arranged for automatic coin return— Operate CN key.	
16b	If trunk under test is not arranged for automatic coin return— Operate CNR key.	
17c	If ETS provided— Operate PCS, PTS keys.♦	
4. METHOD		
A. Operation		
18	Momentarily operate ST key.	♦If ETS provided— FT lamp lighted.♦ AS lamp lighted. Ringing tone heard in MTF telephone set. If call is noncoin— PK lamp lighted.
19	At switchboard— Assistant answers.	Spurt of tone heard. (See Step 1 and note.) At MTF— AS lamp remains lighted. Ringing tone not heard. If call is noncoin zero operator— PK lamp extinguished. If trunk is arranged for automatic coin return— CR lamp momentarily lighted. CND lamp lighted.
20	At switchboard— Disconnect cord circuit.	

STEP	ACTION	VERIFICATION
21	At MTF— Restore TLK key.	◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished.
22	Momentarily operate RL key.	All lamps extinguished.
23	Restore all keys and switches not required in next test.	
24	At distant office— Restore trunk to normal.	

B. Ringback

18	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted. Connection established to switchboard.
19	At switchboard— Momentarily ring back on line.	At MTF— R- lamp momentarily lighted.
20	Restore TLK key.	
21d	If trunk is arranged for ringback with telephone on hook— At switchboard— Momentarily ring back on line.	At MTF— R- lamp momentarily lighted.
22	At switchboard— Disconnect cord circuit.	At MTF— AS lamp extinguished. ◆If ETS provided— FT lamp extinguished.◆
23	Momentarily operate RL key.	All lamps extinguished.
24	Restore all keys and switches not required in next test.	
25	At distant office— Restore trunk to normal.	

C. Recall and Customer Hold

18	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted. Ringing tone heard in MTF telephone set. If call is noncoin— PK lamp lighted.
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STEP	ACTION	VERIFICATION
19	At switchboard— Assistant answers.	Spurt of tone heard. (See Step 1 and note.) At MTF— AS lamp remains lighted.
20	Operate and release TLK key at 120 ipm for several seconds.	AS lamp remains lighted. At switchboard— Supervisory lamp flashes.
21	Disconnect cord circuit.	Trunk lamp lighted.
22	At MTF— Restore TLK key.	◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished. At switchboard— Trunk lamp extinguished.
23	At MTF— Momentarily operate RL key.	All lamps extinguished.
24	Restore all keys and switches not required in next test.	
25	At distant office— Restore trunk to normal.	

D. Trunk Busy

18	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted. Ringing tone heard in MTF telephone set. If call is noncoin— PK lamp lighted.
19	At switchboard— Assistant answers.	Spurt of tone heard. (See Step 1 and note.) At MTF— AS lamp remains lighted.
20	At switchboard— Disconnect cord circuit.	
21	At MTF— Momentarily operate RL key.	All lamps extinguished.
22	At jack, lamp, and key circuit— Insert make-busy plug into OGT-MB jack of trunk to be tested.	◆If ETS provided— FT lamp lighted.◆
23	At MTF— Momentarily operate ST key.	TB lamp lighted. AS lamp not lighted.

STEP	ACTION	VERIFICATION
24	Momentarily operate RL key.	All lamps extinguished. ♦If ETS provided— FT lamp remains lighted.♦
25	Operate NTTS, NTFS keys.	
26	Momentarily operate ST key.	AS lamp lighted. Ringing tone heard in MTF telephone set. If call is noncoin— PK lamp lighted.
27	♦Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.♦
28	Restore all keys and switches not required in next test.	
29	At jack, lamp, and key circuit— Remove make-busy plug used for test.	♦If ETS provided— FT lamp extinguished.♦
30	At distant office— Restore trunk to normal.	
E. Coin Control—Trunks Arranged for Automatic Coin Return When Operator Answers		
18d	If office is arranged for coin service improvement (dial-tone-first)— Operate DTNF key.	
19	Momentarily operate ST key.	♦If ETS provided— FT lamp lighted.♦ AS lamp lighted. If office is arranged for coin service improvement (dial-tone-first)— PK lamp lighted. OLF lamp <i>not</i> lighted.
20	At switchboard— Assistant answers.	Spurt of tone heard. (See Step 1 and note.) At MTF— CR lamp momentarily lighted. CND lamp lighted.
21	Restore CN key.	CND lamp extinguished.
22	Operate CN key.	
23	At switchboard— Collect coin.	Coin present signal received. At MTF— CC lamp momentarily lighted. CND lamp lighted.

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STEP	ACTION	VERIFICATION
		<p>If office is arranged for positive coin collect potential and not arranged for coin service improvement (dial-tone-first)— PK lamp momentarily lighted during the interval that coin collect potential is applied. If office is arranged for coin service improvement (dial-tone-first)— PK lamp <i>not</i> lighted.</p>
24	At switchboard— Collect coin.	Coin present signal received.
25	At MTF— Restore CN key.	CND lamp extinguished.
26	Operate CN key.	
27	At switchboard— Return coin.	<p>Coin present signal received. At MTF— CR lamp momentarily lighted. CND lamp lighted. If office is arranged for positive coin return potential and not arranged for coin service improvement (dial-tone-first)— PK lamp momentarily lighted during the interval that coin return potential is applied. If office is arranged for coin service improvement (dial-tone-first)— PK lamp <i>not</i> lighted.</p>
28	At switchboard— Disconnect cord circuit.	
29	At MTF— Restore CN key.	CND lamp extinguished.
30	Restore TLK key.	<p>◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished.</p>
31	Momentarily operate RL key.	All lamps extinguished.
32	Select noncoin class of service.	
33	Momentarily operate ST key.	<p>◆If ETS provided— FT lamp lighted.◆ Connection established to switchboard.</p>
34	At switchboard— Collect coin.	<p>Coin present signal <i>not</i> received. At MTF— CC lamp <i>not</i> lighted.</p>

STEP	ACTION	VERIFICATION
35	At switchboard— Return coin.	Coin present signal <i>not</i> received. At MTF— CR lamp <i>not</i> lighted.
36	At switchboard— Disconnect cord circuit.	
37	At MTF— Restore TLK key.	◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished.
38	Momentarily operate RL key.	All lamps extinguished.
39	Restore all keys and switches not required in next test.	
40	At distant office— Restore trunk to normal.	
F. Coin Control—Trunks Not Arranged for Automatic Coin Return		
18	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted. Connection established to switchboard.
19	At switchboard— Collect coin.	Coin present signal received. At MTF— CC lamp momentarily lighted. CND lamp lighted. If office is arranged for positive coin collect potential— PK lamp momentarily lighted during the interval that coin collect potential is applied.
20	At switchboard— Collect coin.	Coin present signal not received.
21	At MTF— Momentarily restore CN key.	CND lamp extinguished.
22	At switchboard— Return coin.	Coin present signal received. At MTF— CR lamp momentarily lighted. CND lamp lighted. If office is arranged for positive coin return potential— PK lamp momentarily lighted during the interval that coin return potential is applied.

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STEP	ACTION	VERIFICATION
23	At switchboard— Disconnect cord circuit.	
24	At MTF— Restore CN, CNR keys.	CND lamp extinguished.
25	Restore TLK key.	◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished.
26	Momentarily operate RL key.	All lamps extinguished.
27	Select noncoin class of service having access to trunk under test.	
28	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted. Connection established to switchboard.
29	At switchboard— Collect coin.	Coin present signal not received. At MTF— CC lamp not lighted.
30	At switchboard— Return coin.	Coin present signal not received. At MTF— CR lamp not lighted.
31	At switchboard— Disconnect cord circuit.	◆If ETS provided— FT lamp extinguished.◆ AS lamp extinguished.
32	Momentarily operate RL key.	All lamps extinguished.
33	Restore all keys and switches not required in next test.	
34	At distant office— Restore trunk to normal.	
G. Coin Return on Abandoned Call		
18	Momentarily operate ST key.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted.
19	When AS lamp lights— Restore TLK key.	CR lamp momentarily lighted. CND lamp lighted. AS lamp extinguished. ◆If ETS provided— FT lamp extinguished.◆

STEP	ACTION	VERIFICATION
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and switches not required in next test.	
22	At distant office— Restore trunk to normal.	
H. Disconnect from Outgoing Call		
18	Momentarily operate ST key.	♦If ETS provided— FT lamp lighted.♦ AS lamp lighted. Ringing tone heard in MTF telephone set. If call is noncoin— PK lamp lighted.
19	At switchboard— Assistant answers.	Spurt of tone heard. (See Step 1 and note.) At MTF— AS lamp remains lighted. Ringing tone not heard. If call is noncoin zero operator— PK lamp extinguished. If trunk is arranged for automatic coin return— CR lamp momentarily lighted. CND lamp lighted. If office is arranged for positive coin return potential— PK lamp momentarily lighted during the interval that coin return potential is applied.
20a	If trunk to be tested is arranged for automatic coin return— Momentarily restore CN key.	CND lamp extinguished.
21b	If trunk to be tested is not arranged for automatic coin return— Operate CNR key.	
22	Restore TLK key.	♦If ETS provided— FT lamp extinguished.♦ AS lamp extinguished. At switchboard— Cord lamp lighted.
23	Disconnect cord circuit.	At MTF— If coin features are being tested— CC lamp momentarily lighted. CND lamp lighted. If office is arranged for positive coin collect potential—

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STEP	ACTION	VERIFICATION
15a	If no further tests are to be made— Disconnect power from 1A fault locator.	
K. Call to Incoming Trunk Test Line		
1	At switchboard in operator office— Insert plug of telephone set into position jacks.	
2	Operate Talk key of idle front cord.	
3	When trunk is idle— Insert front cord plug into regular trunk jack of outgoing trunk associated with 2-way operator trunk (of satellite office) to be tested.	Front cord supervisory lamp lighted.
4	Momentarily operate front KP key.	KF (green), S (amber), or KP (amber) lamp lighted.
5a	If trunk requires office code to reach test line— Key local office code.	
6	Key incoming trunk test line number.	
7	Momentarily operate ST key.	KF, S, or KP lamp extinguished. Ringing tone heard for two ringing periods.
		<i>Note:</i> If rapidly interrupted ringing tone is heard after the first ringing period, the trip relay has operated falsely on the pretrip test. If ringing continues after the second ringing period, the trip relay has failed to operate during the trip test. Front cord supervisory lamp flashes six times at overflow rate, then remains lighted thereafter. Tick-tock clicking heard at overflow rate indicating end of test.
8	Restore Talk key.	
9	Remove front cord from regular trunk jack.	Front cord supervisory lamp extinguished.
10a	If no further tests are to be made— Remove telephone set from position jacks.	
L. Ringing		
1	At MTF of satellite office— Restore all keys.	
2	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
3	Operate TSW, TR keys.	
4	At switchboard of operator office— Insert plug of telephone set into position jacks.	
5	Establish talking circuit with maintenance personnel at MTF of satellite office.	
6	Operate Talk key of idle front cord.	
7	When trunk is idle— Insert front cord plug into regular trunk jack of outgoing trunk associated with 2-way operator trunk (of satellite office) to be tested.	Front cord supervisory lamp lighted.
8	Momentarily operate front KP key.	KF (green), S (amber), or KP (amber) lamp lighted.
9a	If trunk requires office code to reach test line— Key local office code.	
10	Key ringing test line number assigned to ringing combination to be tested. (See Table A.)	
11	Momentarily operate ST key.	At MTF of satellite office— TS lamp lighted. R-, R+, T-, or T+ lamp flashes. (See Table A.) At switchboard in operator office— Ringing tone heard.
12	At MTF of satellite office— Operate TLK key.	R-, R+, T-, or T+ lamp extinguished. At switchboard in operator office— Front cord supervisory lamp extinguished.
13	At MTF of satellite office— Restore TLK key.	At switchboard in operator office— Front cord supervisory lamp lighted.
14	Remove cord from regular trunk jack.	
15	Repeat Steps 7 through 14 for each ringing test line number provided in satellite office.	
16	At switchboard in operator office— Restore Talk key.	
17b	If no further tests are to be made— Remove telephone set from position jacks.	

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STEP	ACTION	VERIFICATION
18b	At MTF of satellite office— Restore all keys; set all switches to OFF.	

TABLE A — RINGING CODE CHECK CHART

RINGING COMB.	RINGING SELECTION SWITCH SELECT MAGNETS OPERATED	RINGING DETECTION LAMP LIGHTED	RINGING TEST LINE NO.	RINGING CODES	RINGING INTERVAL IN SECONDS							REMARKS	
					0	1	2	3	4	5	6		
1*†	0,6	R—		Code 1 Gen	█	█	█	█	█	█			
2	0,2	R—		Code 1 Gen									
		R—		Code 2 Gen	█								
		R—		Continuous	█	█	█	█	█	█	█	█	█
3*	0,3	R+		Code 2+	█								
		R—		Code 1 Gen									
		R—		Code 3 Gen	█								
4	0,4	R+		Code 3+	█	█							
		R—		Code 4 Gen	█	█							
		R—		Code 1 HV	█	█							
5*	0,5	R—		Code 2 Gen	█								
		R—		Code 5 Gen	█								
		§¶		—48 Ring, Grd Tip	█	█	█	█	█	█	█	█	█
6	0,7	§¶		—48 Ring, Grd Tip	█	█	█	█	█	█	█	█	Silent Level
		R+		Code 1+	█								
		R—		Code 2 Gen	█								
7*	1,7	T—§		—48 Tip, Grd Ring	█	█	█	█	█	█	█	█	Silent Level
		T+		Code 1+	█								
		T—		Code 2 Gen	█								
8*	0,8	R—		Code 1 Gen	█								Free Line
		R+		Code 2+	█								
9	1,8	T—		Code 1 Gen	█								Free Line
		T+		Code 2+	█								
10‡	0,6	R—		Code 1 Gen	█								
11*†	1,6	T—		Code 1 Gen	█								
		T—		Code 1 Gen	█								
		T—		Code 2 Gen	█								
12*	1,2	T—		Code 1 Gen	█								
		T—		Code 2 Gen	█								
		T—		Continuous	█	█	█	█	█	█	█	█	█
13	1,3	T+		Code 2+	█								
		T—		Code 1 Gen									
		T—		Code 3 Gen	█								
14*	1,4	T+		Code 3+	█	█							
		T—		Code 4 Gen	█	█							
		T—		Code 1 HV	█	█							
15	1,5	T—		Code 2 Gen	█								
		T—		Code 5 Gen	█								
		T—§		—48 Tip, Grd Ring	█	█	█	█	█	█	█	█	Silent Level

*These ringing combinations check all equipped crosspoints on the ringing selection switch.
 †In offices arranged for marker controlled immediate ring, set RMBR switch to position 1.
 ‡Ringing combination 10 is listed for information purposes only and should not be used for testing the ringing feature.
 §If line link pulsing or direct access to No. 101 ESS is provided, operate RTK key to test silent level.
 ¶No indication.

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STEP	ACTION	VERIFICATION
M. Line Busy—Regular Call		
1	At MTF of satellite office— Establish a talking connection to maintenance personnel at switchboard of operator office.	
2	At a telephone at or near the MTF of satellite office— Dial the test termination test number.	
3	At switchboard of operator office— Insert plug of telephone set into position jacks.	
4	Operate Talk key of idle front cord.	
5	When trunk is idle— Insert front cord plug into the regular jack of the outgoing trunk associated with the 2-way operator trunk (of satellite office) to be tested.	Front cord supervisory lamp lighted.
6	Momentarily operate front KP key.	KF (green), S (amber), or KP (amber) lamp lighted.
7	Key digits necessary to direct call to telephone used in Step 2.	
8	Momentarily operate ST key.	Front cord supervisory lamp flashes at line-busy rate. Busy tone heard.
9	Remove cord from regular jack of trunk used for test.	
10	Restore Talk key.	
11	At satellite office— Restore receiver of telephone used in Step 2.	
12a	If no further tests are to be made— At switchboard in operator office— Remove telephone set from position jacks.	
N. Line Busy—No Test Call		
1	At MTF satellite office— Establish a talking connection to maintenance personnel at switchboard of operator office.	
2	At a telephone at or near the MTF of satellite office— Dial the test termination test number.	1000-cycle tone heard.

STEP	ACTION	VERIFICATION
3	At switchboard of operator office— Insert plug of telephone set into position jacks.	
4	Operate Talk key of idle front cord.	
5	When trunk is idle— Insert front cord plug into the verification (no test) jack of the outgoing trunk associated with the 2-way operator trunk (of satellite office) to be tested.	Front cord supervisory lamp lighted.
6	Momentarily operate front KP key.	KF (green), S (amber), or KP (amber) lamp lighted.
7	Key digits necessary to direct call to telephone used in Step 2.	
8	Momentarily operate ST key.	Front cord supervisory lamp extinguished. 1000-cycle tone heard. At satellite office— Talking path established to telephone used in Step 2.
9	Restore receiver of telephone used in Step 2.	At switchboard in operator office— Talking path to telephone in satellite office now opened. 1000-cycle tone not heard.
10	Remove cord from verification (no test) jack of trunk used in test.	
11	Restore Talk key.	
12a	If no further tests are to be made— Remove telephone set from position jacks.	

