

DIAL COIN ZONE  
OUTGOING TRUNK OR JUNCTOR CIRCUIT

SD-26078-01

TESTS USING TRUNK TEST CIRCUIT SD-25918-01

NO. 5 CROSSBAR OFFICES

1. GENERAL

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1.01 This section describes a method of testing the dial coin zone outgoing trunk or junctor circuit using the trunk test circuit SD-25918-01 and the master test frame in No. 5 crossbar offices.

**D. Noncharge Supervision:** This test checks that a charge condition is not established when an answered call is held less than 2 seconds. . . . .

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1.02 This section is reissued for the reasons listed below. Revision arrows are used to emphasize the most significant changes. Equipment Test Lists are affected.

**E. Initial and Overtime Charges:**  
The following features are checked:  
(1) Charge functions. (2) Selection of coin supervisory circuit. (3) Collection of initial deposit. (4) Collection of overtime deposit by the operator. (5) Automatic coin collection of overtime deposit after the calling customer and the operator disconnect. . . . .

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(a) To revise Tests A through J and L for calling data transmitter (CDT) features.

1.03 The tests covered are:

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**A. Seizure:** The following features are checked: (1) Seizure of circuit. (2) Continuity and polarity of originating tip and ring leads. (3) Return of coin if call is abandoned before the charge condition is set in the trunk. . . . .

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**F. Return of Overtime Deposit—Disconnect After Initial Coin Collect but Before Overtime Monitoring:** This test checks that an overtime deposit is returned if disconnect occurs before overtime monitoring begins and after the initial coin collection. . . . .

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**B. Supervision—Originating End Disconnect:** The following features are checked: (1) Charge functions. (2) Release of circuit without timed release. . . . .

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**G. Overflow:** This test checks that the circuit is set for overflow if the sender or called marker signals that it is unable to complete its functions. . . . .

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**C. Supervision—Terminating End Disconnect:** The following features are checked: (1) Charge functions. (2) Ability to hold if extra digits are dialed into circuit. (3) Timed release of circuit within 13 to 32 seconds. . . . .

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**H. Call to a Busy Line:** The following features are checked: (1) Charge not established on call to busy line in distant office. (2) Transmission of busy tone from distant office. . . . .

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**I. Call to Test Line:** This test checks supervision when supervisory

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signals are transmitted from a distant office. . . . .	14
<b>J. Circuit Busy:</b> The following features are checked: (1) Seizure by test frame when circuit is made busy. (2) Busy condition to service calls when circuit is made busy . . . . .	14
<b>K. False-Busy and False-Idle Condition</b> †(Not Required for ETS)‡ : This test checks for continuity and crosses on the F, BT, and FT leads. . . . .	15
<b>L. Operator Rering:</b> This test checks that an operator can rering the customer after the initial charge period is over. . . . .	16
<b>M. ETS Verification Test:</b> This test checks (1) Trunk seizure and release (2) Trunk supervisory scanning (FT, S1, CS leads) (3) Make-busy override (4) Correct trunk register assignment. . . . .	17
<b>1.04</b> The coin zone chief operator should be notified before starting and after completing these tests so that the operators will expect test calls and cooperate with the maintenance personnel.	
<b>1.05</b> Test K requires that all other trunks in the same trunk group and located on the same trunk link frame as the trunk under test be made busy.	
<b>1.06 Lettered Steps:</b> 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.	
<b>1.07</b> Local instructions should be followed for recording and reporting any register operations caused by performing these tests.	

**1.08** 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.

**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** 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—Talking LAMA-C Equipment Out-of-Service

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

**1.11** 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 select 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.

**1.12** †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.

**1.13** When CDT (calling data transmitter) billing system is provided in the office, this 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.

1.14 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**

**Tests A Through J, L, M**

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

2.02 Trunk test circuit, SD-25918-01.

2.03 322A (make-busy) plug.

**Tests B Through F, L, M**

2.05 KS-3008 stopwatch or equivalent.

**Test K**

2.05 1A fault locator test set J94730B (SD-95616-01).

2.06 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 tools (for connecting high resistance ground to terminal strip terminals).

2.07 322A (make-busy) plugs as required.

**3. PREPARATION**

Refer to Paragraphs 1.04 through 1.14.

**STEP**

**ACTION**

**VERIFICATION**

**All Tests Except K**

- |    |  |
|----|--|
| 1  | At MTF—<br>Restore all keys and switches.                              |
| 2  | Momentarily operate RL key.  |
| 3  | Insert make-busy plug into trunk MB_ jack of circuit under test.       |
| 4  | Select trunk under test.   |
| 5  | Operate GPA/GPB key when trunk under test is in allotted group.        |
| 6  | Select originating class of call and associated translator indication. |
| 7  | Select route advance as required.                                      |
| 8  | Select completing marker.  |
| 9  | Operate KY, NTTS, NTFS, TLK, CN keys.                                  |
| 10 | Select coin class of service.  |

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STEP	ACTION	VERIFICATION
11a	If ETS is provided— Operate PCS, PTS keys.	
12b	If office is arranged for coin service improvements (dial-tone-first)— Operate DTNF key.	

**All Tests Except H, I, K**

- 13 Select A through L digits as required for route used by trunk under test, and any test number.
- 14 Select OGT class of test.

**Tests A Through J and L**

- 15c ♦If trunk is to be tested for CDT—  
Operate CDTT key.
- 16c When trunk is assigned to CDT dual controllers, select controller—  
Operate CDC 0/1 key.
- 17c When a trouble record is to be taken from the CDT translator access (TA) circuit—  
Operate TREC key.
- 18c 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
<b>A. Seizure</b>		
19	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS lamp lighted. If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted.

STEP	ACTION	VERIFICATION
		<p>If office is arranged for coin service improvements (dial-tone-first)—            PK lamp lighted.            OLF lamp <i>not</i> lighted.            Operator answers call.</p> <p>If office is arranged for coin service improvements (dial-tone-first)—            PK lamp extinguished.</p> <p>If automatic return of initial coin provided—            CR lamp momentarily lighted.            CND lamp lighted.</p> <p><b><i>Circuit Arranged for AMA</i></b>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—            IE, RN_, T_, and U_ lamps lighted to identify trunk.</p>
20	Restore TLK key.	<p>If automatic return of initial coin <i>not</i> provided—            CR lamp momentarily lighted.            CND lamp lighted.</p> <p>If ETS, LAMA-C provided —            S1 lamp extinguished.            ♦If CDTT key is operated—            S1 lamp extinguished.♦            AS lamp extinguished.</p>
21	Momentarily operate RL key.	<p>All lamps extinguished.            If ETS provided—            FT lamp remains lighted.</p>
22d	If no further tests are to be made— Restore all keys and switches.	
23	Remove make-busy plug from MB_jack of circuit under test.	<p>If ETS provided—            FT lamp extinguished.</p>
<b>B. Supervision—Originating End Disconnect</b>		
19	Momentarily operate ST key.	<p>♦If CDTT key is operated—            S1 lamp lighted.♦            AS lamp lighted.            If ETS provided—            FT, S1 lamps lighted.            If LAMA-C provided—            S1 lamp lighted.</p> <p>If office is arranged for coin service improvements (dial-tone-first)—            PK lamp lighted.            OLF lamp <i>not</i> lighted.            Operator answers call.</p> <p>If office is arranged for coin service improvements</p>

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STEP	ACTION	VERIFICATION
		<p>(dial-tone-first)—            PK lamp extinguished.            If automatic return of initial coin provided—            CR lamp momentarily lighted.            CND lamp lighted.</p> <p><b>Circuit Arranged for AMA</b>            If office is not arranged for ETS, CDT, or LAMA-C—            IE, RN, T, and U lamps lighted to identify trunk.</p>
20	Momentarily restore CN key.	CND lamp extinguished.
21	Inform operator that this is a test call and request that call be completed.	
22	Operate ANS key; <i>start timing</i> .	<p>◆If CDTT key is operated—            CS lamp lighted.◆            OGT-CS lamp lighted.            Steady high tone heard.            If ETS or LAMA-C provided—            CS lamp lighted.</p> <p><b>Circuit Arranged for AMA</b>            If office is not arranged for ETS, CDT, or LAMA-C—            In 2 to 5 seconds—            AE lamp lighted.</p>
23	Restore TLK key in 6 to 8 seconds after ANS key operated.	<p>◆If CDTT key is operated—            S1, CS lamps extinguished.◆            AS, OCT-CS lamps extinguished.            CC lamp momentarily lighted.            CND lamp lighted.            If ETS or LAMA-C provided—            S1 and CS lamps extinguished.</p> <p><b>Circuit Arranged for AMA</b>            If office is not arranged for ETS, CDT, or LAMA-C—            DE lamp lighted.</p>
24	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
25d	If no further tests are to be made— Restore all keys and switches.	
26	Remove make-busy plug from MB jack of circuit under test.	If ETS provided— FT lamp extinguished.

STEP	ACTION	VERIFICATION
<b>C. Supervision—Terminating End Disconnect</b>		
<b>Note:</b> Do not proceed with this test until 2 minutes have elapsed since the thermal time-delay relay (RL) in the circuit was last energized.		
19	Momentarily operate ST key.	<p>◆If CDTT key is operated—  S1 lamp lighted.◆  AS lamp lighted.  If ETS provided—  FT, S1 lamps lighted.  If LAMA-C provided—  S1 lamp lighted.  If office is arranged for coin service improvements (dial-tone-first)—  PK lamp lighted.  OLF lamp <b>not</b> lighted.  Operator answers call.  If office is arranged for coin service improvements (dial-tone-first)—  PK lamp extinguished.  If automatic return of initial coin provided—  CR lamp momentarily lighted.  CND lamp lighted.</p> <p><b>Circuit Arranged for AMA</b>  If office is not arranged for ETS, ◆CDT,◆ or LAMA-C—  IE, RN<sub>1</sub>, T<sub>1</sub>, and U<sub>1</sub> lamps lighted to identify trunk.</p>
20	Inform operator this is a test call.	
21	Dial digit 7.	
22	Momentarily restore CN key.	CND lamp extinguished.
23	Request operator to complete call.	
24	Operate ANS key; <b>start timing.</b>	<p>◆CDTT key is operated—  CS lamp lighted.◆  OGT-CS lamp lighted.  Steady high tone heard.  If ETS or LAMA-C provided—  CS lamp lighted.</p> <p><b>Circuit Arranged for AMA</b>  If office is not arranged for ETS, ◆CDT,◆ or LAMA-C—  In 2 to 5 seconds—  AE lamp lighted.</p>

STEP	ACTION	VERIFICATION
25	In 6 to 8 seconds after ANS key operated, restore ANS key; <i>restart timing</i> .	♦If CDTT key is operated— CS lamp extinguished.♦ If ETS or LAMA-C provided— CS lamp extinguished. OGT-CS lamp extinguished. In 13 to 32 seconds— AS lamp extinguished. CC lamp momentarily lighted. CND lamp lighted. If ETS or LAMA-C provided— S1 lamp extinguished. ♦If CDTT key is operated— S1 lamp extinguished.♦
<p><i>Circuit Arranged for AMA</i>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—              In 13 to 32 seconds—              DE lamp lighted.</p>		
26	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
27d	If no further tests are to be made— Restore all keys and switches.	
28	Remove make-busy plug from MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.
<b>D. Noncharge Supervision</b>		
1	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS lamp lighted. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. If office is arranged for coin service improvements (dial-tone-first)— PK lamp lighted. OLF lamp <i>not</i> lighted. Operator answers call. If office is arranged for coin service improvements (dial-tone-first)— PK lamp extinguished. If automatic return of initial coin provided— CR lamp momentarily lighted. CND lamp lighted.

STEP	ACTION	VERIFICATION
		<p><b><i>Circuit Arranged for AMA</i></b>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—            IE, RN_, T_, and U_ lamps lighted to identify trunk.</p>
20	Momentarily restore CN key.	CND lamp extinguished.
21	Inform operator that this is a test call, and request that call be completed.	
22	Operate ANS key for 1 to 2 seconds.	<p>While ANS key is operated—            OGT-CS lamp lighted.            Steady high tone heard.            If ETS or LAMA-C provided ♦or CDTT key operated—♦            CS lamp lighted while ANS key operated.</p>
		<p><b><i>Circuit Arranged for AMA</i></b>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—            AE lamp not lighted.</p>
23	Restore TLK key.	<p>♦If CDTT key is operated—            S1 lamp extinguished.♦            AS lamp extinguished.            If automatic return of initial coin <i>not</i> provided—            CR lamp momentarily lighted.            CND lamp lighted.            If ETS or LAMA-C provided—            S1 lamp extinguished.</p>
24	Momentarily operate RL key.	<p>All lamps extinguished.            If ETS provided—            FT lamp remains lighted.</p>
25d	If no further tests are to be made— Restore all keys and switches.	
26	Remove make-busy plug from MB_ jack of circuit under test.	<p>If ETS provided—            FT lamp extinguished.</p>
<b>E. Initial and Overtime Charges</b>		
19	From office records, determine initial and overtime intervals of circuit under test.	
20	Momentarily operate ST key.	<p>♦If CDTT key is operated—            S1 lamp lighted.♦            AS lamp lighted.            If ETS provided—            FT, S1 lamps lighted.</p>

STEP	ACTION	VERIFICATION
		<p>If LAMA-C provided— S1 lamp lighted.</p> <p>If office is arranged for coin service improvements (dial-tone-first)— PK lamp lighted. OLF lamp <b>not</b> lighted. Operator answers call.</p> <p>If office is arranged for coin service improvements (dial-tone-first)— PK lamp extinguished.</p> <p>If automatic return of initial coin provided— CR lamp momentarily lighted. CND lamp lighted.</p> <p><b>Circuit Arranged for AMA</b> If office is not arranged for ETS, CDT, or LAMA-C— IE, RN, T, and U lamps lighted to identify trunk.</p>
21	Momentarily restore CN key.	CND lamp extinguished.
	<b>Note:</b> The timing, action, and verification of the following steps should be carefully synchronized.	
22	Inform operator this is a test call and request call be completed.	
23	Operate ANS key; <b>start timing.</b>	<p>◆If CDTT key is operated— CS lamp lighted.◆ OGT-CS lamp lighted. Steady high tone heard.</p> <p>If ETS or LAMA-C provided— CS lamp lighted.</p> <p><b>Circuit Arranged for AMA</b> If office is not arranged for ETS, CDT, or LAMA-C— AE lamp lighted.</p> <p>Depending on duration of initial timing interval (Step 15)— CC lamp momentarily lighted in time indicated in Table A. CND lamp lighted. In 30 seconds after CC lamp lighted— Operator answers.</p>
24	Momentarily restore CN key.	CND lamp extinguished.

STEP	ACTION	VERIFICATION
25	Request operator to collect coin.	CC lamp momentarily lighted. CND lamp lighted.
26	Momentarily restore CN key.	CND lamp extinguished.
27	Restore TLK key.	◆If CDTT key is operated— S1, CS lamps extinguished.◆ AS, OCT-CS lamps extinguished. CC lamp momentarily lighted. CND lamp lighted. If ETS or LAMA-C provided— S1 and CS lamps extinguished.
		<b>Circuit Arranged for AMA</b> If office is not arranged for ETS, ◆CDTT◆ or LAMA-C— DE lamp lighted.
28	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
29d	If no further tests are to be made— Restore all keys and switches.	
30	Remove make-busy plug from MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.
<b>F. Return of Overtime Deposit—Disconnect After Initial Coin Collect, but Before Overtime Monitoring</b>		
19	From office records, determine initial and overtime intervals of circuit under test.	
20	Momentarily operate ST Key.	◆If CDTT key is operated— S1 lamp lighted.◆ AS lamp lighted. If ETS provided—

TABLE A

INITIAL TIMING INTERVAL	CC LAMP TIME LIMITS
1 min	30 to 50 sec
2 min	1 min 30 sec to 1 min 50 sec
3 min	2 min 30 sec to 2 min 50 sec
4 min	3 min 30 sec to 3 min 50 sec
5 min	4 min 30 sec to 4 min 50 sec

STEP	ACTION	VERIFICATION
		<p>FT, S1 lamps lighted.            If LAMA-C provided—            S1 lamp lighted.            If office is arranged for coin service improvements (dial-tone-first)—            PK lamps lighted.            OLF lamp <b>not</b> lighted.            Operator answers call.            If office is arranged for coin service improvements (dial-tone-first)—            PK lamp extinguished.            If automatic return of initial coin provided—            CR lamp momentarily lighted.            CND lamp lighted.</p> <p><b>Circuit Arranged for AMA</b>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—            IE, RN_, T_, and U_ lamps lighted to identify trunk.</p>
21	Momentarily restore CN key.	CND lamp extinguished.
	<b>Note:</b> The timing, action, and verification of the following steps should be carefully synchronized.	
22	Inform operator this is a test call and request call be completed.	
23	Operate ANS key; <b>start timing.</b>	<p>♦If CDDT key is operated—            CS lamp lighted.♦            OCT-CS lamp lighted.            Steady high tone heard.            If ETS or LAMA-C provided—            CS lamp lighted.</p> <p><b>Circuit arranged for AMA</b>            If office is not arranged for ETS, ♦CDT,♦ or LAMA-C—            AE lamp lighted.            Depending on duration of initial timing interval (Step 15)—            CC lamp momentarily lighted in time indicated in Table A.            CND lamp lighted.</p>
24	Momentarily restore CN key.	CND lamp extinguished.
25	Within 30 second interval after CC lamp lighted— Restore TLK key.	<p>♦If CDDT key is operated—            S1, CS lamps extinguished.♦            AS, OGT-CS lamps extinguished.</p>

STEP	ACTION	VERIFICATION
		CR lamp momentarily lighted. CND lamp lighted. If ETS or LAMA-C provided— S1 and CS lamps extinguished.
		<b>Circuit arranged for AMA</b> If office is not arranged for ETS, ♦CDT,♦ or LAMA-C— DE lamp lighted.
26	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
27d	If no further tests are to be made— Restore all keys and switches.	
28	Remove make-busy plug from MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.
<b>G. Overflow</b>		
19	Operate ROT key.	
20	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS lamp lighted. Overflow tone heard. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted.
		<b>Circuit arranged for AMA</b> If office is not arranged for ETS, ♦CDT,♦ or LAMA-C— IE, RN_, T_, and U_ lamps lighted to identify trunk.
21	Momentarily operate RL key.	CR lamp momentarily lighted. All lamps extinguished. If ETS provided— FT lamp remains lighted.
22d	If no further tests are to be made— Restore all keys and switches.	
23	Remove make-busy plug from MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.

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STEP	ACTION	VERIFICATION
<b>H. Call to a Busy Line</b>		
19	Select A through L digits as required for route used by trunk under test and a terminating office permanent busy number.	
20	Operate MISC key.	
21	Momentarily operate ST key.	<p>◆If CDTT key is operated—            S1 lamp lighted.◆            AS lamp lighted.            Busy tone heard.            If ETS provided—            FT, S1 lamps lighted.            If LAMA-C provided—            S1 lamp lighted.</p> <p><b>Circuit arranged for AMA</b>            If office is not arranged for ETS, ◆CDT,◆ or LAMA-C—            IE, RN_, T_, and U_ lamps lighted to identify trunk.</p>
22	Momentarily operate RL key.	<p>CR lamp momentarily lighted.            All lamps extinguished.            If ETS provided—            FT lamp remains lighted.</p>
23d	If no further tests are to be made— Restore all keys and switches.	
24	Remove make-busy plug from MB_ jack of circuit under test.	<p>If ETS provided—            FT lamp extinguished.</p>
<b>I. Call to a Test Line</b>		
19	Select A through L digits as required for route used by trunk under test and a terminating office incoming trunk test line number.	
20	Operate ITDO key.	
21	Momentarily operate ST key.	<p>◆If CDTT key is operated—            S1 lamp lighted.◆            AS lamp lighted.            If ETS provided—            FT, S1 lamps lighted.            If LAMA-C provided—            S1 lamp lighted.            If office is arranged for coin service improvements (dial-tone-first)—            PK lamp lighted.</p>

STEP	ACTION	VERIFICATION
		<p>OLF lamp <i>not</i> lighted.            Operator answers call.            If office is arranged for coin service improvements (dial-tone-first)—                PK lamp extinguished.            If automatic return of initial coin provided—                CR lamp momentarily lighted.                CND lamp lighted.</p>
22	Momentarily restore CN Key.	CND lamp extinguished.
23	Inform operator this is a test call and request that call be completed.	<p>Ring tone heard.            OGT-CS lamp follows supervisory flashes.            If ETS or LAMA-C provided or CDTT key operated—                CS lamp follows supervisory flashes.</p>
24	Momentarily operate RL key.	<p>CR lamp momentarily lighted—            All lamps extinguished.            If ETS provided—                FT lamp remains lighted.</p>
25d	If no further tests are to be made— Restore all keys and switches.	
26	Remove make-busy plug from MB_ jack of circuit under test.	<p>If ETS provided—                FT lamp extinguished.</p>
<b>J. Circuit Busy</b>		
19	Momentarily operate ST key.	<p>◆If CDTT key is operated—                S1 lamp lighted.◆            AS lamp lighted.            If ETS provided—                FT, S1 lamps lighted.            If LAMA-C provided—                S1 lamp lighted.            If office is arranged for coin service improvements (dial-tone-first)—                PK lamp lighted.                OLF lamp <i>not</i> lighted.            Operator answers call.            If office is arranged for coin service improvements (dial-tone-first)—                PK lamp extinguished.            If automatic return of initial coin provided—                CR lamp momentarily lighted.                CND lamp lighted.</p> <p><b>Circuit arranged for AMA</b>            If office is not arranged for ETS, ◆CDT,◆ or LAMA-C—</p>

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STEP	ACTION	VERIFICATION
		IE, RN_, T_, and U_ lamps lighted to identify trunk.
20	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
21	Operate TS key.	
22	Momentarily operate ST key.	TB lamp lighted.
23	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
24	Operate FS key.	
25	Remove plug from trunk MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.
26	Repeat Step 19.	
27	Momentarily operate RL key.	All lamps extinguished.
28d	If no further tests are to be made— Restore all keys and switches.	
<b>K. False-busy and False-idle Conditions (Not Required for ETS)</b>		
1	At relay rack frame— Connect power to No. 1A fault locator and operate W-T switch to W position and HR-LRT switch to LRT position.	Whistle heard.
2	Connect WT jack of fault locator to terminal 45 of terminal strip B on unit.	Whistle not heard.
3	When circuit being tested is idle— Block D relay operated.	If trunk under test is the only idle trunk or the only trunk using the same route on same trunk link frame— Whistle heard.
4a	If more than one trunk on same trunk link frame using the same route— At master test frame— Insert make-busy plugs into OGT-MB jacks of all other circuits using same route on same trunk link frame.	
5	Remove blocking tool from D relay momentarily.	Whistle not heard while blocking tool was removed.

STEP	ACTION	VERIFICATION
6a	If more than one trunk on same trunk link frame using the same route— At master test frame— Remove make-busy plugs inserted in Step 4a.	Whistle not heard if any trunks idle.
7	At relay rack frame— Connect HRG (high resistance ground) terminal to terminal 55 of terminal strip B on unit.	
8	Disconnect WT jack of fault locator and connect it to terminal 15 of terminal strip B on unit.	Whistle heard.
9	Remove blocking tool from D relay.	Whistle not heard.
10	Remove test connections from terminal strip.	
<b>L. Operator Rering</b>		
19	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ AS lamp lighted. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. If office is arranged for coin service improvements (dial-tone-first)— PK lamp lighted. OLF lamp <i>not</i> lighted. Operator answers call. If office is arranged for coin service improvements (dial-tone-first)— PK lamp extinguished. If automatic return of initial coin provided— CR lamp momentarily lighted. CND lamp lighted.</p> <p><b>Circuit arranged for AMA</b> If office is not arranged for ETS, ◆CDT,◆ or LAMA-C— IE, RN_, T_, and U_ lamps lighted to identify trunk.</p>
20	Momentarily restore CN key.	CND lamp extinguished.
21	Inform operator this is a test call and request call be completed.	
22	Operate ANS key; <i>start timing</i> .	<p>◆If CDTT key is operated— CS lamp lighted.◆ OGT-CS lamp lighted. Steady high tone heard.</p>

STEP	ACTION	VERIFICATION
		If ETS or LAMA-C provided— CS lamp lighted.
		<b>Circuit arranged for AMA</b> If office is not arranged for ETS, CDT, or LAMA-C— AE lamp lighted. Depending on duration of initial timing interval (Step 15)— CC lamp momentarily lighted in time indicated in Table A. CND lamp lighted. In 30 seconds after CC lamp lighted— Operator answers.
23	Request operator to ring on circuit when disconnect signal received.	
24	Release TLK key.	Supervisory lamp lighted at switchboard. When operator rings on circuit— R- and R+ lamps lighted.
25	When R- and R+ lamps lighted— Operate TLK key.	
26	Momentarily release CN ky.	CND lamp extinguished.
27	Momentarily operate RL key.	CC lamp momentarily lighted. All lamps extinguished. If ETS provided— FT lamp remains lighted.
28d	If no further tests are to be made— Restore all keys and switches.	
29	Remove make-busy plug from MB_ jack of circuit under test.	If ETS provided— FT lamp extinguished.
<b>M. ETS Verification Test</b>		
15	Momentarily operate ST key.	AS, FT, S1 lamps lighted. If office is arranged for coin service improvements (dial-tone-first)— PK lamp lighted. OLF lamp <i>not</i> lighted. Operator answers call. If office is arranged for coin service improvements (dial-tone-first)— PK lamp extinguished. If automatic return of initial coin provided— CR lamp momentarily lighted. CND lamp lighted.

STEP	ACTION	VERIFICATION
16	Request operator to complete call.	
17	Operate ANS key; <i>start timing</i> .	CS, OGT-CS lamps lighted. High tone heard.
18	Momentarily restore CN key.	CND lamp extinguished.
19	Restore TLK key after 8 seconds.	AS, CS, FT, OGT-CS, S1 lamps extinguished. High tone silenced. CC lamp momentarily lighted. CND lamp lighted.
20	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
21	Restore ANS key.	
22	Operate TS, TLK keys.	
23	Momentarily operate ST key.	TB lamp lighted.
24	Momentarily operate RL key.	All lamps extinguished. FT lamp remains lighted.
25	Operate FS key.	
26	Remove make-busy plug from MB_ jack of circuit under test.	FT lamp extinguished.
27	Repeat Steps 15, 16, 17, and 18.	
28	In 6 to 8 seconds after ANS key operated, restore ANS key; <i>start timing</i> .	CS, OGT-CS lamps extinguished. High tone silenced. In 13 to 32 seconds— AS, FT, S1 lamps extinguished. CC lamp momentarily lighted. CND lamp lighted.
29	Momentarily operate RL key.	All lamps extinguished.
30c	If no further tests are to be made— Restore all keys and switches.	

