

INTRAOFFICE TRUNK CIRCUITS

SD-27685-01

TESTS USING TRUNK TEST CIRCUIT SD-25918-01

NO. 5 CROSSBAR OFFICES

1. GENERAL

PAGE

1.01 This section describes a method of testing intraoffice trunks for Phase III Centrex features.

1.02 This section is revised to add calling data transmitter (CDT) features to all tests. Revision arrows are used to emphasize the most significant changes. Equipment Test Lists are not affected.

1.03 The tests covered are:

PAGE

A. Trunk Seizure and Release:

The following features are tested:
(1) Seizure of trunk. (2) Continuity of originating and terminating sleeve leads.
(3) Continuity and polarity of originating tip and ring leads.

5

B. Ringing Features: This test checks the ability of the trunk to apply all ringing codes and to verify that they are applied to the proper side of the line and are of the correct polarity.

6

C. Pretrip and Trip: This test checks the operation of the trip relay.

7

D. Supervision—Originating and Terminating Ends Disconnect:

This test checks the charge functions and release of the trunk without using a timed release.

9

E. Supervision—Originating End Disconnect:

The following features are tested: (1) Charge function. (2) Ability to hold if extra digits are dialed into trunk. (3) Timed release of trunk in 13 to 32 seconds, where provided.

11

F. Supervision—Terminating End Disconnect:

This test checks the charge functions and, where provided, the timed release in 13 to 32 seconds of the trunk when only the terminating end disconnects.

14

G. Noncharge Supervision:

This test checks that a charge condition is not established when an answered call is held less than 2 seconds if this feature is provided.

17

H. Universal Pad Control:

This test checks the operation of the PCA and PCB relays in the trunk circuit.

19

I. Trunk Busy:

This test checks that only a test call can complete to an idle made-busy trunk. It also checks that a service call can complete to an idle trunk.

21

J. Listed Directory Number—LDN:

The following features are tested: (1) Completion to attendant. (2) Answer entry (if AMA) and supervision initiated by attendant. (3) Release.

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	PAGE
K. Station-to-Station Transfer: This test checks the ability of a centrex customer to transfer an incoming call to another station within the customer group.	25
L. Transfer to Attendant: This test checks the ability of the trunk to recognize a transfer request and allow completion of call to attendant from a previously called station.	26
M. Attendant Start-in Call: This test checks the ability of the trunk to complete an LDN call to an attendant, who in turn calls a station within the customer group, releases destination, and transfers to a second station.	29
N. Don't Answer Transfer: This test checks for automatic transfer to an attendant when an incoming call is not answered within a specified time.	33
O. Line Identification Failure on Don't Answer Transfer: This test checks that 120-ipm tone is returned to the calling customer when a line identification failure occurs during transfer to the attendant on a don't answer transfer.	35
P. Transfer Denied: This test checks the ability of the trunk to recognize and deny a transfer request from a customer not allowed to initiate a transfer.	36
Q. No Transfer Register Available: This test checks the ability of the trunk to maintain a transmission path when no transfer register is available.	37
1.04 Test H requires action and verification at the relay rack frame.	
1.05 Test Q requires that all transfer registers be made busy.	

1.06 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.

1.07 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.

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

1.09 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.

1.10 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—Taking LAMA-C
Equipment Out-of-Service.

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

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.

1.12 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.

1.13 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

All Tests

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

2.02 Trunk test circuit, SD-25918-01.

Tests A, D, Through G, L, M, and N

2.03 KS-3008 stopwatch or equivalent.

3. PREPARATION

STEP

ACTION

VERIFICATION

All Tests

Note: Refer to paragraphs 1.06 through 1.13.

1 At MTF—
Restore all keys and switches.

2 Momentarily operate RL key.

Test O

2.04 Blocking and insulating tools as required. Use tools and apply as covered in Section 069-020-801.

Tests J, L, M, N, and O—If Console Test Attendant Trunk is Provided.

2.05 Test console, 1B-type, equipped with a D-75B-61 cord which has a KS-16409, L19 connector unit.

2.06 53-type head telephone set or equivalent.

Tests J, L, M, and N—If 608A Test Attendant Trunk is Provided

2.07 Test circuit for register and CAMA sender circuits SD-25988-01.

2.08 Test set circuit for register and CAMA sender circuits (test set) SD-25676-01.

2.09 Testing cord, 20-conductor cord, 6 feet long, equipped with one KS-13875 plug and one KS-13895 plug (W20C cord) (for connecting IRT jack of test set to IRT jack of incoming register and CAMA sender circuit).

Tests J, L, M, and N—If Test Attendant Trunk is Arranged for 608A Switchboard Operation.

2.10 1500D TOUCH-TONE® telephone set, equipped with a 3W9A cord with 310 plug.

Test Q

2.11 322A (make-busy) plugs as required.

All lamps extinguished.

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STEP	ACTION	VERIFICATION
3	Select digits required to direct call to type of trunk under test.	
4a	If trunk under test is arranged for flat rate, message register, AMA, or coin operation— Operate TTL key.	
5b	If KAMA key is provided and AMA features are not being tested— Operate KAMA key.	
6c	If trunk under test is arranged for data service, message timing, or data flat rate operation— Select numerical digits assigned to data terminating test line.	
7	Operate KRC key.	
8d	If centrex features or centrex intracustomer groups are being tested— Operate CNTX, CCTL keys.	
9e	If ETS provided— Operate PCS and PTS keys.	
10	Select marker.	
11	Select route advance.	
12	Select A appearance of trunk under test.	
13	Operate FS, TS keys.	
14	Select a class of service and rate treatment, if required, having access to trunk under test.	
15	Select IAO class of test.	
16	Select ringing combination as required.	
17	Select originating class of call and associated translator indication.	
18	Operate GPA/GPB key when trunk is in an allotted trunk group.	
19f	◆If trunk is to be tested for CDT— Operate CDTT key.	

STEP	ACTION	VERIFICATION
20f	When trunk is assigned to CDT dual controllers, select controller— Operate CDC 0/1 key.	
21f	When a trouble record is to be taken from the CDT translator access (TA) circuit— Operate TREC key.	
22f	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.†	

Tests A Through I

- 23g If tens block screening is provided—
Set TERT switch as required.

Tests J, L, M, and N

- 24h If test attendant trunk is arranged for console operation—
At test console—
Operate TST CNSL key.
- 25h Plug attached cord of test console into CNTX TST CONN T jack.
- 26h Plug head telephone set into operator telephone jack.
- 27i If test attendant trunk is arranged for 608A switchboard operation—
At MTF—
Patch cord of TOUCH-TONE telephone set to ORT jack.
(Check that handset is on-hook.)

4. METHOD

STEP	ACTION	VERIFICATION
A. Trunk Seizure and Release		
24	Operate TLK key.	

STEP	ACTION	VERIFICATION
25	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS, TS lamps lighted. Ringing tone heard. If answer and disconnect supervision is provided— PK lamp lighted. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted.
26	Operate ANS key; <i>start timing</i> .	♦If CDTT key is operated— CS lamp lighted.♦ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. If answer and disconnect supervision is provided— PK lamp extinguished. After 38 seconds— AS, TS lamps remain lighted.
27	Restore TLK, ANS keys.	♦If CDTT key is operated— S1, CS lamps extinguished♦ AS, TS lamps extinguished. High tone silenced. If ETS provided— CS, FT, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.
28	Momentarily operate RL key.	All lamps extinguished.
29	Restore all keys and switches not required in next test.	

B. Ringing Features

24	Operate TLK key.	
25	Select ringing combination to be applied to terminating test line. (Refer to Table A.)	
26	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS, TS lamps lighted. Ringing detection lamps function as shown in Table A. Ringing tone heard. If answer and disconnect supervision is provided—

STEP	ACTION	VERIFICATION
		PK lamp lighted. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted.
27	Momentarily operate RL key.	All lamps extinguished. Ringing tone silenced.
28	Repeat Steps 25 through 27 for each type of ringing provided.	
29	Restore all keys and switches not required in next test.	
C. Pretrip and Trip		
24	Operate TLK key.	
25	Select code 1 ringing.	
26	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ AS, TS lamps lighted. R_ lamp flashes once every 6 seconds. Ringing tone heard in unison with R_ lamp flashes. If ETS provided— FT, S1 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. If LAMA-C provided— S1 lamp lighted.
27	During silent interval of ringing cycle— Operate PTP key and hold for approximately 1/2 second.	
28	Observe R_ lamp.	R_ lamp continues to flash.
29	During silent interval of ringing cycle— Operate TRP key and hold for approximately 1/2 second if trunk test circuit has 1500-ohm test resistance, or 1 second if it has a 1622-ohm test resistance.	◆If CDTT key is operated— S1 lamp extinguished.◆ R_ lamp extinguished. Ringing tone silenced. If trunk under test is data message timing— AS, TS lamps extinguished. If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished.

TABLE A — RINGING CODE CHECK CHART

RINGING COMB. OTRC, RC- KEYS OR RCT1 KEY & RCU- SWITCH	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	█	█	█	█	█	█	█		
3*	0,3	R—		Continuous	█	█	█	█	█	█	█		
		R+		Code 2+	█	█	█	█	█	█	█		
		R—		Code 1 Gen	█	█	█	█	█	█	█		
4	0,4	R—		Code 3 Gen	█	█	█	█	█	█	█		
		R—		Code 3+	█	█	█	█	█	█	█		
		R+		Code 3+	█	█	█	█	█	█	█		
5*	0,5	R—		Code 4 Gen	█	█	█	█	█	█	█		
		R—		Code 1 HV	█	█	█	█	█	█	█		
		R—		Code 2 Gen	█	█	█	█	█	█	█		
6	0,7	R+		Code 2+	█	█	█	█	█	█	█		
		R—		Code 2 Gen	█	█	█	█	█	█	█		
		R—		Code 5 Gen	█	█	█	█	█	█	█		Silent Level
7*	1,7	§†		—48 Ring, Grd Tip	█	█	█	█	█	█	█		Silent Level
		R+		Code 1+	█	█	█	█	█	█	█		
		R—		Code 2 Gen	█	█	█	█	█	█	█		
8*	0,8	T—§		—48 Tip, Grd Ring	█	█	█	█	█	█	█		Silent Level
		T+		Code 1+	█	█	█	█	█	█	█		
		T—		Code 2 Gen	█	█	█	█	█	█	█		
9	1,8	R—		Code 1 Gen	█	█	█	█	█	█	█		Free Line
		R+		Code 2+	█	█	█	█	█	█	█		Free Line
10‡	0,6	T—		Code 1 Gen	█	█	█	█	█	█	█		
11*†	1,6	T—		Code 1 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	█	█	█	█	█	█	█		
		T+		Code 3+	█	█	█	█	█	█	█		
14*	1,4	T—		Code 4 Gen	█	█	█	█	█	█	█		
		T—		Code 1 HV	█	█	█	█	█	█	█		
		T—		Code 2 Gen	█	█	█	█	█	█	█		
15	1,5	T+		Code 2+	█	█	█	█	█	█	█		
		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.

STEP	ACTION	VERIFICATION
30	Momentarily operate RL key.	All lamps extinguished.
31h	If office is equipped with range extension for uniguage cabling— Select ringing combination 4.	
32h	Repeat Steps 26 through 30.	
33	Restore all keys and switches not required in next test.	
D. Supervision—Originating and Terminating Ends Disconnect		
Flat Rate Operation		
24	Operate TLK key.	
25	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted.</p>
26	Operate ANS key; <i>start timing</i> .	<p>◆If CDTT key is operated— CS lamp lighted.◆ High tone heard. If answer and disconnect supervision is provided— PK lamp extinguished. If ETS or LAMA-C provided— CS lamp lighted.</p>
27	In 7 to 9 seconds— Restore ANS, TLK keys.	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ AS, TS lamps extinguished. High tone silenced. If ETS provided— FT, S1, CS lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.</p>
28	Momentarily operate RL key.	All lamps extinguished.
AMA Operation ETS, ◆CDT,◆ or LAMA-C Not Provided)		
29	Operate TLK key.	

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STEP	ACTION	VERIFICATION
30	Momentarily operate ST key.	AS, TS lamps lighted. IE, RN, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
31	Operate ANS key; <i>start timing</i> .	High tone heard. If answer and disconnect supervision is provided— PK lamp extinguished. In 2 to 6 seconds— AE lamp lighted.
32	Restore ANS, TLK keys.	AS, TS lamps extinguished. High tone silenced. If disconnect entry is provided— DE lamp lighted.
33	Momentarily operate RL key.	All lamps extinguished.
Message Register Operation (LAMA-C, CDT, or ETS Not Provided)		
34	Operate TLK key.	
35	Momentarily operate ST key.	AS, TS lamps lighted. PK lamp <i>not</i> lighted.
36	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— RP lamp lighted. DR lamp <i>not</i> lighted.
37	Restore ANS, TLK keys.	AS, TS lamps extinguished. High tone silenced.
38	Momentarily operate RL key.	All lamps extinguished.
39h	If circuit is arranged for 2-party operation— Operate TP, TLK keys.	
40h	Momentarily operate ST key.	AS, TS lamps lighted.
41h	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— TP lamp lighted. DR lamp <i>not</i> lighted.
42h	Restore ANS, TLK keys.	AS, TS lamps extinguished. High tone silenced.
43h	Restore TP key.	

STEP	ACTION	VERIFICATION
44h	Momentarily operate RL key.	All lamps extinguished.
Data Message Timing and Data Flat Rate Operation		
45	Operate TLK key.	
46	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. RP, PK lamps <i>not</i> lighted.</p>
47	Operate ANS key.	<p>◆If CDTT key is operated— CS lamp lighted.◆ High tone heard. PK lamp lighted. If trunk under test is data message timing— RP lamp lighted. DR lamp <i>not</i> lighted. If ETS or LAMA-C provided— CS lamp lighted.</p>
48	Restore ANS, TLK keys.	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ AS, TS lamps extinguished. High tone silenced. If ETS provided— FT, S1, CS lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.</p>
49	Momentarily operate RL key.	All lamps extinguished.

All Trunks

- 50 Restore all keys and switches not required in next test.

E. Supervision—Originating End Disconnect**All Trunks**

Note: Do not proceed with this test until assured that the trunk has been idle for 2 minutes where tube-type RL relay is used and for 4 minutes where 235-type RL relay is used.

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STEP	ACTION	VERIFICATION
Flat Rate Operation		
24	Operate TLK key.	
25	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.</p>
26	Using dial of MTF telephone circuit— Dial digit 7.	AS, TS lamps remain lighted.
27	Operate ANS key; <i>start timing</i> .	<p>◆If CDTT key is operated— CS lamp lighted.◆ High tone heard. If answer and disconnect supervision is provided— PK lamp extinguished. If ETS or LAMA-C provided— CS lamp lighted.</p>
28	In 7 to 9 seconds— Restore TLK key; <i>start timing</i> .	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ If LAMA-C provided— S1 lamp extinguished. If ETS provided— FT, S1 lamps extinguished. AS lamp extinguished. High tone silenced. In 13 to 32 seconds— TS lamp extinguished. If ETS or LAMA-C provided— CS lamp extinguished.</p>
29	Restore ANS key.	
30	Momentarily operate RL key.	All lamps extinguished.
AMA Operation (ETS, ◆CDT,◆ or LAMA-C Not Provided)		
31	Operate TLK key.	
32	Momentarily operate ST key.	<p>AS, TS lamps lighted. IE, RN, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is</p>

STEP	ACTION	VERIFICATION
		provided— PK lamp lighted.
33	Using dial of MTF telephone circuit— Dial digit 7.	AS, TS lamps remain lighted.
34	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— AE lamp lighted. CS lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
35	Restore TLK key; <i>start timing</i> .	AS lamp extinguished. High tone silenced. S1 lamp extinguished. In 13 to 32 seconds— TS lamp extinguished. If disconnect entry is provided— DE lamp lighted.
36	Restore ANS key.	
37	Momentarily operate RL key.	All lamps extinguished.
Message Register Operation (LAMA-C, CDT, or ETS Not Provided)		
38	Operate TLK key.	
39	Momentarily operate ST key.	AS, TS lamps lighted. PK lamp <i>not</i> lighted.
40	Using dial of MTF telephone circuit— Dial digit 7.	AS, TS lamps remain lighted.
41	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— RP lamp lighted. DR lamp <i>not</i> lighted.
42	Restore TLK key; <i>start timing</i> .	AS lamp extinguished. High tone silenced. In 13 to 32 seconds— TS lamp extinguished.
43	Restore ANS key.	
44	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
Data Message Timing and Data Flat Rate Operation		
45	Operate TLK key.	
46	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. PK lamp lighted.</p>
47	Operate ANS key.	<p>◆If CDTT key is operated— CS lamp lighted.◆ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. PK lamp extinguished. If trunk under test is data message timing— RP lamp lighted. DR lamp <i>not</i> lighted.</p>
48	Restore TLK key.	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ If LAMA-C provided— CS, S1 lamps extinguished. If ETS provided— FT, S1, CS lamps extinguished. AS, TS lamps extinguished. High tone silenced.</p>
49	Momentarily operate RL key.	All lamps extinguished.
50	Restore ANS key.	

All Trunks

- 51 Restore all keys and switches not required in next test.

F. Supervision—Terminating End Disconnect**All Trunks**

Note: For trunks except data message timing and data flat rate, do not proceed with these tests until assured that the trunk has been idle for 2 minutes where tube-type RL relay is used and for 4 minutes where 235-type RL relay is used.

STEP	ACTION	VERIFICATION
Flat Rate Operation		
24	Operate TLK key.	
25	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
26	Operate ANS key; <i>start timing</i> .	◆If CDTT key is operated— CS lamp lighted.◆ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. If answer and disconnect supervision is provided— PK lamp extinguished.
27	In 7 to 9 seconds— Restore ANS key; <i>start timing</i> .	◆If CDTT key is operated— CS lamp extinguished.◆ High tone silenced. If ETS or LAMA-C provided— CS lamp extinguished. If timed called linkage release is provided— In 2 seconds— TS lamp extinguished. If answer and disconnect supervision is provided— PK lamp lighted. In 13 to 32 seconds— AS, TS lamps extinguished. ◆If CDTT key is operated— S1 lamp extinguished.◆ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. If answer and disconnect supervision is provided— PK lamp extinguished.
28	Restore TLK key.	
29	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
AMA Operation (ETS, CDT, or LAMA-C Not Provided)		
30	Operate TLK key.	
31	Momentarily operate ST key.	AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. IE, RN_, T2/5, U2/5 lamps lighted.
32	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— AE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
33	Restore ANS key; <i>start timing</i> .	High tone silenced. If timed called linkage release is provided— In 2 seconds— TS lamp extinguished. If answer and disconnect supervision is provided— PK lamp lighted. In 13 to 32 seconds— AS, TS lamps extinguished. If disconnect entry is provided— DE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
34	Restore TLK key.	
35	Momentarily operate RL key.	All lamps extinguished.
Message Register Operation (LAMA-C, CDT, or ETS Not Provided)		
36	Operate TLK key.	
37	Momentarily operate ST key.	AS, TS lamps lighted. PK lamp <i>not</i> lighted.
38	Operate ANS key; <i>start timing</i> .	High tone heard. In 2 to 6 seconds— RP lamp lighted. DR lamp <i>not</i> lighted.
39	Restore ANS key; <i>start timing</i> .	High tone silenced. In 13 to 32 seconds— AS, TS lamps extinguished.

STEP	ACTION	VERIFICATION
40	Restore TLK key.	
41	Momentarily operate RL key.	All lamps extinguished.
Data Message Timing and Data Flat Rate Operation		
42	Operate TLK key.	
43	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. RP, PK lamps <i>not</i> lighted.</p>
44	Operate ANS key.	<p>◆If CDTT key is operated— CS lamp lighted.◆ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. PK lamp lighted. If trunk under test is data message timing— RP lamp lighted. DR lamp <i>not</i> lighted.</p>
45	Restore ANS key.	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ If LAMA-C provided— CS, S1 lamps extinguished. If ETS provided— FT, S1, CS, lamps extinguished. AS, TS lamps extinguished. High tone silenced.</p>
46	Restore TLK key.	
47	Momentarily operate RL key.	All lamps extinguished.
All Trunks		
48	Restore all keys and switches not required in next test.	
G. Noncharge Supervision		
Flat Rate Operation		
24	Operate TLK key.	

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STEP	ACTION	VERIFICATION
25	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
26	Operate ANS key for 1 to 1-1/2 seconds.	If ETS or LAMA-C provided ♦or CDTT key operated—♦ CS lamp lighted while ANS key is operated. High tone heard while ANS key is operated. If answer and disconnect supervision is provided— PK lamp extinguished.
27	Operate ANS key and restore TLK key simultaneously.	♦If CDTT key is operated— S1 lamp extinguished.♦ If LAMA-C provided— S1 lamp extinguished. If ETS provided— FT, S1 lamps extinguished. PK lamp remains extinguished. AS, TS lamps extinguished.
28	Restore ANS key.	
29	Momentarily operate RL key.	All lamps extinguished.
AMA Operation (ETS, ♦CDT,♦ or LAMA-C Not Provided)		
30	Operate TLK key.	
31	Momentarily operate ST key.	AS, TS lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. IE, RN_, T2/5, U2/5 lamps lighted.
32	Operate ANS key for 1 to 1-1/2 seconds; <i>start timing.</i>	High tone heard while ANS key is operated. If answer and disconnect supervision is provided— PK lamp extinguished. AE lamp not lighted.
33	In 7 to 9 seconds— Restore TLK key.	AS, TS lamps extinguished.
34	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
Message Register Operation (LAMA-C, CDT, or ETS Not Provided)		
35	Operate TLK key.	
36	Momentarily operate ST key.	AS, TS lamps lighted. PK lamp <i>not</i> lighted.
37	Operate ANS key for 1 to 1-1/2 seconds.	High tone heard while ANS key is operated. RP lamp <i>not</i> lighted.
38	Momentarily operate RL key.	All lamps extinguished.
39	Restore TLK key.	
All Trunks		
40	Restore all keys and switches not required in next test.	
H. Universal Pad Control		
24	Operate 2WD, 2WCB keys.	
25	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. TS, AS, ES lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. At relay rack frame— PCA, PCB relays operated.
26	At MTF— Momentarily operate RL key.	All lamps extinguished. Ringing tone silenced.
27	Restore 2WD, 2WCB keys.	
28	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. TS, AS, ES lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.

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STEP	ACTION	VERIFICATION
		At relay rack frame— PCA, PCB relays <i>not</i> operated.
29	At MTF— Momentarily operate RL key.	All lamps extinguished. Ringing tone silenced.
30	Operate 2WD key.	
31	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. TS, AS, ES lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. At relay rack frame— PCB relay operated. PCA relay <i>not</i> operated.</p>
32	At MTF— Momentarily operate RL key.	All lamps extinguished. Ringing tone silenced.
33	Restore 2WD key.	
34	Operate 2WCB key.	
35	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. TS, AS, ES lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. At relay rack frame— PCB relay operated. PCA relay <i>not</i> operated.</p>
36	At MTF— Momentarily operate RL key.	All lamps extinguished. Ringing tone silenced.
37	Restore 2WCB key.	
38	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
I. Trunk Busy		
24	At relay rack frame— Set MB switch to MB on all intraoffice trunks of same route on same trunk link frame as trunk under test.	
25	At MTF— Operate TLK key.	
26	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted.
27	Restore TLK key.	◆If CDTT key is operated— S1 lamp extinguished.◆ If ETS provided— FT, S1 lamps extinguished. AS, TS lamps extinguished. If LAMA-C provided— S1 lamp extinguished.
27	Momentarily operate RL key.	All lamps extinguished.
28	At relay rack frame— Set MB switch associated with trunk under test to MB.	
29	At MTF— Operate TLK key.	
30	Momentarily operate ST key.	TB lamp lighted.
31	Momentarily operate RL key.	TB lamp extinguished.
32	Restore FS, TS keys.	
33	Operate NTFS, NTTTS keys.	
34	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. If LAMA-C provided— S1 lamp lighted.

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STEP	ACTION	VERIFICATION
35	Restore TLK key.	◆If CDTT key is operated— S1 lamp extinguished.◆ If ETS or LAMA-C provided— S1 lamp extinguished. AS, TS lamps extinguished.
36	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
37	At relay rack frame— Restore MB switches associated with trunks made busy.	If ETS provided— FT lamp extinguished.
38	At MTF— Restore all keys and switches not required in next test.	
J. Listed Directory Number—LDN		
Note: Use AMA class of service, if provided.		
28	Operate TLK key.	
29	Restore ringing combination.	
30	Operate CDN key.	CDN, TRF lamps lighted.
31	Select ringing combination 10.	
32	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS lamp lighted. Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— CW, TST lamps lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— Within 4 seconds— CTX lamp flashes at 60 ipm. If AMA call and trunk <i>not</i> arranged for LAMA-C, ◆CDT,◆ or ETS— IE, RN, T2/5, U2/5 lamps lighted.

STEP	ACTION	VERIFICATION
33h	If test attendant is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
34h	Momentarily operate TST key.	PA/RLS lamp extinguished. SRC lamp flashes at 60 ipm. Audible signal sounds.
35h	Momentarily operate Talk key associated with flashing SRC lamp.	Talk, SRC lamps lighted. Audible signal silenced. TST, CW lamps extinguished. At MTF— Ringing tone silenced. Talking path established between MTF and test console. If AMA call and trunk <i>not</i> arranged for LAMA-C, CDT, or ETS— AE lamp lighted in 2 to 5 seconds. If AMA call and trunk arranged for LAMA-C or ETS— CS lamp lighted. ♦If CDTT key is operated— CS lamp lighted.♦
36h	At test console— Momentarily operate HOLD key.	Talk lamp flashes at 30 ipm. Talking path removed between MTF and test console.
37h	Momentarily operate Talk key.	Talk lamp lighted. Talking path established between MTF and test console.
38h	Momentarily operate HOLD key.	Talk lamp flashes at 30 ipm. Talking path removed between MTF and test console.
39h	At MTF— Restore TLK key: <i>start timing</i> .	♦If CDTT key is operated— S1, CS lamps extinguished.♦ If LAMA-C provided— CS, S1 lamps extinguished. If ETS provided— FT, S1, CS lamps extinguished. AS lamp extinguished. Talking path removed between MTF and test console. If AMA call and trunk <i>not</i> arranged for ♦CDT,♦ LAMA-C, or ETS— DE lamp lighted within 6 seconds. At test console— Talk lamp extinguished in 2 seconds— SRC lamp extinguished.

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STEP	ACTION	VERIFICATION
40h	Within 13 seconds— Momentarily operate PA/RLS key.	All lamps extinguished.
41h	At MTF— Momentarily operate RL key.	All lamps extinguished.
42i	If test attendant trunk is arranged for 608A switchboard operation— Operate CANS key.	CTX lamp extinguished. Ringing tone silenced. If AMA call and trunk not arranged for LAMA-C, ♦CDT,♦ or ETS— AE lamp lighted in 2 to 5 seconds. If AMA call and trunk arranged for LAMA-C or ETS— CS lamp lighted. ♦If CDTT key is operated— CS lamp lighted.♦
43i	At telephone in ORT jack— Remove handset.	Talking path established to MTF.
44i	Restore handset.	
45i	At MTF— Restore TLK key; start timing .	♦If CDTT key is operated— S1, CS lamps extinguished. AS lamp extinguished. If ETS provided— FT, S1, CS lamps extinguished. If LAMA-C provided— S1, CS lamps extinguished. If AMA call and trunk not arranged for LAMA-C, ♦CDT,♦ or ETS— DE lamp lighted within 6 seconds.
46i	Within 13 seconds— Restore CANS key.	
47i	Momentarily operate RL key.	All lamps extinguished.
48	Restore all keys and switches not required in next test.	
49j	If test attendant trunk is arranged for console operation and no other tests are to be made— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
50j	Remove head telephone set from operator telephone jack.	

STEP	ACTION	VERIFICATION
51k	If test attendant trunk is arranged for 608A switchboard operation and no other tests are to be made— At MTF— Remove telephone set from ORT jack.	
K. Station-to-Station Transfer		
23	Operate TLK key; set TERT switch to KM.	
24	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.
25	Operate ANS key.	◆If CDTT key is operated— CS lamp lighted.◆ R_ lamp extinguished. High tone heard. If ETS or LAMA-C provided— CS lamp lighted.
26	Operate CTX1 key.	High tone silenced.
27	Restore ANS key.	
28	Operate CTX4 key.	
29	After 3 seconds— Momentarily restore TLK key.	TS lamp may momentarily flash. Dial tone heard.
30	Dial four digits assigned to centrex terminating test line 2.	TS2 lamp lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.
31	Restore CTX1 key.	Ringing tone silenced.
32	Operate CTX1 key.	Ringing tone heard.
33	Operate ANS key.	R_ lamp extinguished. High tone heard.
34	Restore CTX1 key.	High tone silenced.
35	Momentarily restore ANS key.	High tone heard.

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STEP	ACTION	VERIFICATION
36	Operate CTX1 key.	High tone heard.
37	Restore TLK key.	High tone silenced. TS lamp extinguished.
38	Operate TLK key.	
39	Restore CTX1 key.	High tone heard.
40	Restore TLK, ANS keys.	◆If CDTT key is operated— S1, CS lamps extinguished.◆ If LAMA-C provided— CS, S1 lamps extinguished. If ETS provided— FT, S1, CS lamps extinguished. AS, TS2 lamps extinguished. High tone silenced.
41	Momentarily operate RL key.	All lamps extinguished.
42	Restore all keys and switches not required in next test.	
L. Transfer to Attendant		
28	Operate TLK, CTX4, CTL2 keys; set TERT switch to KM.	
29	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS2 lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.
30	Operate ANS key.	◆If CDTT key is operated— CS lamp lighted.◆ If ETS or LAMA-C provided— CS lamp lighted. R_ lamp extinguished. High tone heard.
31	Operate CTX2 key; <i>start timing.</i>	High tone silenced.
32	After 5 seconds— Momentarily restore TLK key.	TS2 lamp may flash. Ringing tone heard. If test attendant trunk is arranged for console operation—

STEP	ACTION	VERIFICATION
		At test console— CW, TST lamps lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— Within 4 seconds— CTX lamp flashes at 120 ipm.
33h	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
34h	Momentarily operate TST key.	PA/RLS lamp extinguished. Audible signal sounds. SRC lamp flashes at 120 ipm. DEST lamp lighted.
35h	Momentarily operate Talk key associated with flashing SRC lamp.	Talk, SRC lamps lighted. TST, CW lamps extinguished. Audible signal silenced. At MTF— Ringing tone silenced. Talking path established between MTF and test console.
36h	Restore CTX2 key.	High tone heard.
37h	Restore ANS key.	◆If CDT key is operated— CS lamp extinguished.◆ If ETS or LAMA-C provided— CS lamp extinguished. High tone silenced. After 2 seconds— TS2 lamp extinguished.
38h	At test console— Momentarily operate RLS DEST key.	DEST lamp extinguished. Talking path removed between MTF and test console.
39h	At MTF— Restore TLK key.	◆If CDTT key is operated— S1 lamp extinguished.◆ AS lamp extinguished. If LAMA-C provided— S1 lamp extinguished. If ETS provided— FT, S1 lamps extinguished
40h	At test console— Momentarily operate PA/RLS key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
41h	At MTF— Momentarily operate RL key.	All lamps extinguished.
42i	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Operate CANS key.	CTX lamp extinguished. Ringing tone silenced. If ETS or LAMA-C provided— CS lamp lighted.
43i	At telephone in ORT jack— Remove handset.	Talking path established between MTF and telephone in ORT jack.
44i	At MTF— Restore CTX2 key.	High tone heard at MTF and telephone.
45i	Restore ANS key.	◆If CDTT key is operated— CS lamp extinguished.◆ If ETS or LAMA-C provided— CS lamp extinguished. After 2 seconds— TS2 lamp extinguished. High tone silenced.
46i	At telephone in ORT jack— Replace handset.	
47i	At MTF— Momentarily operate RD key.	CTX lamp lighted and extinguished.
48i	At telephone in ORT jack— Remove handset.	Talking path established between MTF and telephone in ORT jack.
49i	At MTF— Restore TLK key.	AS lamp extinguished. Talking path removed between MTF and telephone in ORT jack. If ETS provided— S1, FT lamps extinguished. If LAMA-C provided— S1 lamp extinguished. ◆If CDTT key is operated— S1 lamp extinguished.◆
50i	Restore CANS key.	
57i	Momentarily operate RL key.	All lamps extinguished.
57i	At telephone in ORT jack— Replace handset.	
53	At MTF— Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
54j	If test attendant trunk is arranged for console operation and no other tests are to be made— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
55j	Remove head telephone set from operator telephone jack.	
56k	If test attendant trunk is arranged for 608A switchboard operation and no other tests are to be made— At MTF— Remove telephone set from ORT jack.	
M. Attendant Start-in Call		
28	Operate TLK, CDN keys.	
29	Restore ringing combination.	
30	Select ringing combination 10.	
31	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS lamp lighted. Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— CW, TST lamps lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— Within 4 seconds— CTX lamp flashes at 60 ipm. If AMA call and trunk <i>not</i> arranged for LAMA-C, ◆CDT,◆ or ETS— IE, RN_, T_, U_ lamps lighted.</p>
32h	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
33h	Momentarily operate TST key.	PA/RLS lamp extinguished. SRC lamp flashes at 60 ipm. Audible signal sounds.

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STEP	ACTION	VERIFICATION
34h	Momentarily operate Talk key associated with flashing SRC lamp; <i>start timing</i> .	Talk, SRC lamps lighted. Audible signal silenced. TST, CW lamps extinguished. At MTF— Ringing tone silenced. Talking path established between MTF and test console. If AMA call and trunk <i>not</i> arranged for LAMA-C, CDT, or ETS— AE Lamp lighted in 2 to 5 seconds. If trunk arranged for LAMA-C or ETS— CS lamp lighted. If CDTT key is operated— CS lamp lighted.
35h	At test console— After 5 seconds— Momentarily operate STI key.	RDY lamp lighted. Dial tone heard.
36h	Dial four digits assigned to centrex terminating test line 1(A).	
37h	Momentarily operate END key.	RDY lamp extinguished. DEST lamp flashes at 30 ipm. Ringing tone heard. At MTF— TS lamp lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.
38h	Operate ANS key.	R_ lamp extinguished. High tone heard. At test console— DEST lamp lighted. High tone heard.
39h	Momentarily operate RLS DEST key.	DEST lamp extinguished. High tone silenced. At MTF— TS lamp extinguished. High tone silenced.
40h	Restore ANS key.	
41h	At test console— Momentarily operate STI key.	RDY lamp lighted. Dial tone heard.
42h	Dial four digits assigned to centrex terminating test line 1(A).	

STEP	ACTION	VERIFICATION
43h	Momentarily operate END key.	RDY lamp extinguished. DEST lamp flashes at 30 ipm. Ringing tone heard. At MTF— TS lamp lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.
44h	Operate ANS key.	R_ lamp extinguished. High tone heard. At test console— DEST lamp lighted steadily. High tone heard.
45h	Momentarily operate PA/RLS key.	High tone silenced. After 2 seconds— All lamps extinguished.
46h	At MTF— Restore TLK key; <i>start timing</i> .	♦If CDTT key is operated— S1, CS lamps extinguished.♦ AS lamp extinguished. TS lamp extinguished in 13 to 19 seconds. If ETS provided— FT, S1, CS lamps extinguished. If AMA call and trunk <i>not</i> arranged for LAMA-C, ♦CDT,♦ or ETS— DE lamp lighted when TS lamp extinguished. If trunk arranged for LAMA-C— S1, CS lamps extinguished.
47i	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Operate CANS key; <i>start timing</i> .	CTX lamp extinguished. Ringing tone silenced. If AMA call and trunk <i>not</i> arranged for LAMA-C, ♦CDT, or ETS—♦ AE lamp lighted in 2 to 5 seconds. If trunk arranged for LAMA-C or ETS— CS lamp lighted. ♦If CDTT key is operated— CS lamp lighted.♦
48i	After 5 seconds— Operate STI key.	RDY lamp lighted.
49i	At telephone in ORT jack— Remove handset.	Dial tone heard.
50i	Dial tone digits assigned to centrex terminating test line 1(A).	
51i	Replace handset.	

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STEP	ACTION	VERIFICATION
52i	At MTF— Restore STI key.	TS lamp lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. CTX lamp flashes at 30 ipm. RDY lamp extinguished.
53i	At telephone in ORT jack— Remove handset.	Ringing tone heard.
54i	At MTF— Operate ANS key.	Within 2 seconds— CTX lamp lighted steadily. R_ lamp extinguished. High tone heard at both telephones.
55i	Momentarily operate RD key.	TS, CTX lamps extinguished.
56i	At telephone in ORT jack— Replace handset.	High tone silenced.
57i	At MTF— Restore ANS key.	
58i	Operate STI key.	RDY lamp lighted.
59i	At telephone in ORT jack— Remove handset.	Dial tone heard.
60i	Dial four digits assigned to centrex terminating test line 1(A).	
61i	At MFT— Restore STI key.	TS lamp lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. CTX lamp flashes at 30 ipm. RDY lamp extinguished.
62i	Operate ANS key.	Within 2 seconds— CTX lamp lighted steadily. Ringing tone silenced. High tone heard.
63i	Restore CANS key.	At telephone in ORT jack— High tone silenced. At MTF— CTX lamp extinguished.
64i	At telephone in ORT jack— Replace handset.	

STEP	ACTION	VERIFICATION
65	At MTF— Operate CTX1 key.	
66	Restore ANS key.	
67	Operate CTX4 key.	
68	After 3 seconds— Momentarily restore TLK key.	TS lamp may momentarily flash. Dial tone heard.
69	Dial 4-digit centrex terminating test line 2.	R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes. TS2 lamp lighted.
70	Restore CTX1 key.	Ringing tone silenced.
71	Momentarily operate RL key.	All lamps extinguished.
72	Restore all keys and switches not required in next test.	
73j	If test attendant trunk is arranged for console operation and no other tests are to be made— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
74j	Remove head telephone set from operator telephone jack.	
75k	If test attendant trunk is arranged for 608A switchboard operation and no other tests are to be made— At MTF— Remove telephone set from ORT jack.	
N. Don't Answer Transfer		
28	Operate TLK, CTX4, CTL2 keys; set TERT switch to DAT.	
29	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If LAMA-C provided— S1 lamp lighted. If ETS provided— FT, S1 lamps lighted. AS, TS2 lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.

STEP	ACTION	VERIFICATION
		<p>Note: Determine from office records ringing time interval for which office is arranged (15, 30, 45, or 60 seconds).</p> <p>If interrupter has been seized just prior to test call seizure— Timing interval could be as much as twice the above listed timing interval. When ringing interval is exceeded— TS2, R_ lamps extinguished. If test attendant trunk is arranged for console operation— At test console— CW, TST lamps lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— Within 4 seconds— CTX lamp flashes at 60 ipm.</p>
30h	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
31h	Operate TST key for approximately 1 second.	PA/RLS lamp extinguished. SRC lamp flashes at 60 ipm. Audible signal sounds.
32h	Momentarily operate Talk key associated with flashing SRC lamp.	Talk, SRC lamps lighted. TST, CW lamps extinguished. Audible signal silenced. At MTF— Ringing tone silenced. Talking path established between MTF and test console.
33h	Restore TLK key; <i>start timing.</i>	◆If CDTT key is operated— S1 lamp extinguished.◆ If LAMA-C provided— S1 lamp extinguished. If ETS provided— FT, S1 lamps extinguished. AS lamp extinguished. Talking path removed between MTF and test console.
34h	At test console— Within 13 seconds— Momentarily operate PA/RLS key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
35h	At MTF— Momentarily operate RL key.	All lamps extinguished.
36i	If test attendant trunk is arranged for 608A switchboard operation— Operate CANS key.	CTX lamp extinguished. R_ lamp extinguished. Ringing tone silenced.
37i	At telephone in ORT jack— Remove handset.	Talking path established to MTF.
38i	Replace handset.	
39i	Restore CANS, TLK keys.	◆If CDTT key is operated— S1 lamp extinguished.◆ If LAMA-C provided— S1 lamp extinguished. If ETS provided— FT, S1 lamps extinguished. AS lamp extinguished.
40i	Momentarily operate RL key.	All lamps extinguished.
41	Restore all keys and switches not required in next test.	
42j	If test attendant trunk is arranged for console operation and no other tests are to be made— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
43j	Remove head telephone set from operator telephone jack.	
44k	If test attendant trunk is arranged for 608A switchboard operation and no other tests are to be made— At MTF— Remove telephone set from ORT jack.	

O. Line Identification Failure on Don't Answer Transfer

23	Operate TLK, CTX4, CTL2 keys; set TERT switch to DAT.	
24	At relay rack frame— Block nonoperated ID relay associated with trunk under test.	
25	At MTF— Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆

STEP	ACTION	VERIFICATION
		<p>If LAMA-C provided— S1 lamp lighted.</p> <p>If ETS provided— FT, S1 lamps lighted. AS, TS2 lamps lighted. R_ lamp flashes. Ringing tone heard in unison with R_ lamp flashes.</p> <p>Note: Determine from office records ringing time interval for which office is arranged (15, 30, 45, or 60 seconds).</p> <p>If interrupter has been seized just prior to test call seizure— Timing interval could be as much as twice the above listed time interval. When ringing interval is exceeded— TS, R_ lamps extinguished. If option W is provided in the don't answer auxiliary transfer circuit— Overflow tone heard. If option X is provided in the don't answer auxiliary transfer circuit— No tone heard.</p>
26	Momentarily operate RL key.	All lamps extinguished. If option W is provided— Overflow tone silenced.
27	At relay rack frame— Remove blocking tool from ID relay.	
28	At MTF— Restore all keys and switches not required in next test.	
P. Transfer Denied		
23	Operate TLK key.	
24	Restore CNTX key.	
25	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆</p> <p>If LAMA-C provided— S1 lamp lighted.</p> <p>If ETS provided— FT, S1 lamps lighted. TS, AS lamps lighted. R_ lamp flashes.</p>

STEP	ACTION	VERIFICATION
		Ringling tone heard in unison with R_ lamp flashes.
26	Operate ANS key.	♦If CDTT key is operated— CS lamp lighted.♦ R_ lamp extinguished. High tone heard. If ETS or LAMA-C provided— CS lamp lighted.
27	Restore ANS key for 1 second.	High tone silenced while ANS key is restored. If ETS or LAMA-C provided ♦or CDTT key operated—♦ CS lamp extinguished while ANS key is restored.
28	Restore ANS, TLK keys.	♦If CDTT key is operated— S1, CS lamps extinguished.♦ AS, TS lamps extinguished. High tone silenced. If ETS provided— FT, S1, CS lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.
29	Momentarily operate RL key.	All lamps extinguished.
30	Restore all keys and switches not required in next test.	

Q. No Transfer Register Available

23	Operate TLK key; set TERT switch to KM.	
24	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ AS, TS lamps lighted. R_ lamp flashes. Ringling tone heard in unison with R_ lamp flashes. If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted.
25	Operate ANS key.	♦If CDTT key is operated— CS lamp lighted.♦ R_ lamp extinguished. High tone heard. If ETS or LAMA-C provided— CS lamp lighted.

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STEP	ACTION	VERIFICATION
26	Insert make-busy plugs into TFRMB jacks associated with all transfer registers.	
27	Restore ANS key for 1 second.	High tone silenced. If ETS or LAMA-C provided or CDTT key operated— CS lamp extinguished while ANS key restored.
28	Operate CTX1 key.	No tone heard.
29	Restore CTX1 key.	
30	Momentarily restore ANS key.	High tone heard.
31	Restore TLK, ANS keys.	If CDTT key is operated— S1, CS lamps extinguished. AS, TS lamps extinguished. High tone silenced. If ETS provided— FT, S1, CS lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished.
32	Momentarily operate RL key.	All lamps extinguished.
33	Remove plugs from TFRMB jacks.	
34	Restore all keys and switches.	