

2-WAY INTERTOLL TRUNK CIRCUITS SD-27654-01
TESTS USING TRUNK TEST CIRCUIT SD-25918-01
NO. 5 CROSSBAR OFFICES

1. GENERAL

PAGE

1.01 This section describes a method of testing 2-way intertoll trunk circuits for use with or without common control switching arrangements (CCSA), with or without Phase II centrex, using the master test control circuit SD-25800-01. Included in this section is a miscellaneous test which is made without the master test control circuit.

1.02 This section is reissued for the following reasons. Arrows are used to indicate significant changes. This reissue affects the Equipment Test Lists.

- (a) To revise tests F, W through AB, AD, AF, AG for Calling Data Transmitter (CDT) features.
- (b) To add CS scan lamp indication on incoming calls for Electronic Translation System (ETS)

1.03 The tests covered are:

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A. Trunk Seizure, Release, and Pad Control—Local Completion and Through-Switch Calls: The following features are tested: (1) Seizure of trunk. (2) Seizure of incoming register by trunk. (3) Completion of connection to a test line in local office or to an outgoing trunk through the line link appearance of this trunk. (4) Return of answering supervision toward originating end. (5) Continuity and polarity of ESK lead and operation of pad control feature on incoming local completion call if trunk is arranged for pad control. . . .

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B. Ringing—Local Completion: The following features are tested: (1) Application of various ringing combinations. (2) Polarity of ringing current on tip and ring leads of terminating end of trunk. . . .

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

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D. Supervision—Terminating End Disconnect—Local Completion and Through-Switch Calls: The following features are tested: (1) E and M supervision on local completion calls. (2) Reverse battery supervision on through-switch calls. (3) Timed release of trunk on local completion calls if pad control feature is provided. (4) Trunk held under control of originating end. . . .

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E. Supervision—Originating End Disconnect—Local Completion and Through-Switch Calls: The following features are tested: (1) E and M supervision on local completion calls. (2) Reverse battery supervision on through-switch calls. (3) Timed release of trunk on local completion calls. . . .

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F. Supervision—Originating End Disconnect—Trunk Seizure Prior to Time-Out—Local Completion: This test checks that the trunk can be seized during timed release interval by an incoming or outgoing call. . . .

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NOTICE

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G. Line-Busy—Noncentrex and Centrex Dial Transfer Calls—Local Completion: The following features are tested: (1) Line-busy tone connected to the originating line when the terminating line is found busy. (2) "Flash-off" when terminating line is found busy on dial transfer calls.	21	maintain a transmission path when an incoming register is not available.	31
H. Line-Busy or Overflow to Attendant—Trunks Arranged for Centrex: The following features are tested: (1) Return of 60-ipm tone and flashes to the attendant on a line-busy condition. (2) Return of 120-ipm tone and flashes to the attendant on an overflow condition.	22	N. Dial Transfer to Station—Trunks Arranged for Centrex—Local Completion: The following features are tested: (1) Completion to a centrex line. (2) Dial transfer to another centrex line within the customer group. (3) Originating line excluded on transfer until either centrex line flashes.	34
I. Overflow — Local Completion and Through-Switch Calls: This test checks that overflow tone is connected to the originating line when the marker is unable to establish a connection.	25	O. Dial Transfer to an Attendant—Trunks Arranged for Centrex—Local Completion: This test checks that the trunk functions properly when a centrex station with dial transfer features requests a transfer to the attendant.	35
J. Abandoned Call—Local Completion and Through-Switch Calls: This test checks that the trunk restores to normal on an abandoned call.	27	P. Listed Directory Number Call—Trunks Arranged for Centrex—Local Completion: This test checks the ability of the trunk to function properly on a call to an attendant with required supervision.	37
K. Class-of-Service Registration—Trunks Arranged for Centrex—Local Completion: This test checks that the CT_ and CU_ relays operate and lock. On dial transfer calls, this test also checks the CTT_ and CUT_ leads to the transfer line link connector.	28	Q. Manual Transfer With Start-In Call—Trunks Arranged for Centrex—Local Completion: The following features are tested: (1) Completion to a centrex line. (2) Manual transfer of call to an attendant with required supervision. (3) Release destination. (4) Completion of start-in call.	39
L. No Transfer Register Available—Trunks Arranged for Dial Transfer Centrex—Local Completion: This test checks the ability of the trunk to cancel a dial transfer request and maintain a transmission path when a transfer register is not available.	30	R. Don't Answer Transfer—Trunks Arranged for Centrex—Local Completion: This test checks the ability of a trunk which has terminated a call to a don't answer class station to request a transfer to an attendant when the station does not answer at the end of a timing period.	42
M. No Incoming Register Available Trunks Arranged for Centrex: This test checks the ability of the trunk to cancel a start-in call and		S. All Attendant Trunks Busy on Transfer Call—Local Completion: This test checks the ability of the trunk, on a transfer call, to return and remove 120-ipm tone to	

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the called customer when all attendant trunks are busy.	44	AA. Overflow—Local Originating Out-going: This test checks the ability of the trunk to return overflow tone to the calling end when the sender encounters a condition which prevents it from completing its functions.	55
T. Attendant Signal Source—Trunks Arranged for Centrex—Local Completion: This test checks the ability of the trunk to function properly when the attendant sends a recall signal to the toll operator.	46	AB. Sleeve Busy Indication to 17E Testboard: This test checks that the trunk tests busy at the 17E testboard when the trunk is seized on an outgoing call.	55
U. Cancel Dial Transfer on No Answer From Station or Attendant: This test checks the ability of the trunk to cancel a dial transfer request and maintain a transmission path when called station or attendant does not answer.	47	AC. Cross Office Lockout From 17E Testboard on Incoming Through-Switch Call: This test checks that on an incoming through-switch call the outgoing trunk can be held off-normal from the 17E testboard.	56
V. Transfer Denied: This test checks the ability of the trunk to deny a transfer request from stations not allowed to initiate a transfer.	50	AD. Trunk Busy to Outgoing Calls: The following features are tested: (1) Seizure by the test frame only when the trunk is made busy. (2) Busy condition to service calls when trunk is made busy. (3) When provided, operation of the DR relay denies outgoing calls from customer on MTF.	57
W. Trunk Seizure and Release—Outgoing: The following features are tested: (1) Seizure of trunk. (2) Continuity and polarity of originating tip and ring leads. (3) Originating end disconnect.	50	AE. False-Busy and False-Idle Condition (ETS not Provided): This test checks for continuity and crosses on the F, BT, and FT leads.	58
X. Supervision—Terminating End Disconnect—Outgoing Tandem: The following features are tested: (1) Reverse battery supervision to incoming through trunk. (2) Trunk held under control of originating end.	51	AF. Glare Feature: This test checks the glare detection feature of the trunk on local originated and tandem calls.	59
Y. Charge and Noncharge Supervision—Local Originating Outgoing: The following features are tested: (1) Charge functions. (2) Charge condition not established when answered call is held less than 2 seconds on AMA operation.	52	AG. Call to Distant Office: The following features are checked in a distant office via a 103-type test line: (1) Seizure of incoming register. (2) Continuity of talking paths. (3) Continuity of sleeve lead (4) Transmission of supervisory signals from the distant office.	61
Z. Supervision—Terminating End Disconnect—Local Originating Outgoing: The following features are tested: (1) Charge functions. (2) Charge condition established when answered call is held more than 2 seconds on AMA operation.	53	1.04 Test A is made with one-half of the incoming registers associated with the trunk being tested made busy.	

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- 1.05 Test L is made with all transfer registers made busy.
- 1.06 Tests A through V and AC through AE require actions and verifications at the relay rack frame of trunk under test.
- 1.07 Tests AB through AD require actions and verifications at the 17E testboard (if provided).
- 1.08 **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.
- 1.09 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.
- 1.10 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.
- 1.11 During Tests A and K, a trouble record is taken. Trouble recorder register TRE will score. The reporting of this register operation should be in accordance with local instructions.
- 1.12 When the office is arranged for LAMA-C or ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a **maintenance-busy** condition - not in an **out-of-service** condition. To change a scanner or distributor from an **out-of-service** to a **maintenance-busy** condition, use the procedure given in the following sections for the office arrangement.

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

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

- 1.13 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk supervisory scanning to be repeated on the FT, CS, and S1 lamps at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, supervision will continue to be repeated on the lamps, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command **STOP:TRK TST** is entered at the maintenance TTY.
- 1.14 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.
- 1.15 ♦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.
- 1.16 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 AD, AF, AG

- 2.01 Master test control circuit, SD-25800-01.
- 2.02 Trunk test circuit, SD-25918-01.

Tests A Through V; if 17E Testboard Appearance is Provided, Test AC

2.03 Two testing cords, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord) (for patching trunk test jacks to trunk circuit).

Tests A, I, L; if 17E Testboard Appearance is not Provided, Tests A Through V, AD, AE

2.04 322A (make-busy) plugs as required.

Tests D, E, F, H, K, S, T, U, X, Y, Z

2.05 KS-3008 stopwatch or equivalent.

Tests F, S; if 608A Test Attendant Trunk is Provided, Tests H, M, O Through R, T

2.06 ♦1014A♦ dial hand test set (handset), equipped with a 2W38A cord assembly consisting of a W2CK cord, 310 plug, and 471A jack.

Tests H, M, O Through R, T, U, if Console Attendant Trunk is Provided

2.07 1B-type test console equipped with D-75A-61 cord with a KS-16409, L19 connector unit.

Tests H, Q, if 608A Test Attendant Trunk is Provided

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

3. PREPARATION

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

2.10 Testing cord, 20-conductor cord, 6 feet long, equipped with one KS-13975 plug and one KS-13895 plug (W20C cord) (for connecting IRT jack of test set to IRT jack of test circuit for register and CAMA sender circuits).

Tests I, M, AE

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

Test AE

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

2.13 Testing cord, W1AK cord, 6 feet long, equipped with one 1P (P44B,490) banana plug, one 360B tool, and one 624B tool (for connecting fault locator to terminal strip terminals).

Test C, AE

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

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	█		█						
		R+		Code 3+	█		█						
4	0,4	R—		Code 4 Gen	█								
		R—		Code 1 HV	█								
		R—		Code 2 Gen	█								
5*	0,5	R+		Code 2+	█								
		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	█								
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	█	█	█	█	█	█	█	█	█

*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.

3. PREPARATION

Refer to 1.04 through 1.16

STEP	ACTION	TEST										
		A	B	C	D	E	F	G	H	I	J	K
1	At MTF— Restore all keys and switches.	X	X	X	X	X	X	X	X	X	X	X
2	Momentarily operate RL key.	X	X	X	X	X	X	X	X	X	X	X
3a	If 17E testboard appearance is provided— Have testboard attendant make trunk busy to outgoing and incoming calls.	X	X	X	X	X	X	X	X	X	X	X
4b	If 17E testboard appearance is <i>not</i> provided— At MTF jack, lamp, and key circuit— Insert make-busy plug into OGT-MB jack associated with trunk under test and have trunk removed from service at distant office.	X	X	X	X	X	X	X	X	X	X	X
5	At relay rack— When IN, SG relays on trunk under test are not operated— Patch T1, T2 jacks on trunk under test to TOL T1, TOL T2 jacks on frame.	X	X	X	X	X	X	X	X	X	X	X
6	At MTF— Select 1TNP class of test.	X	X	X	X	X	X	X	X	X	X	X
7	Select TOL subclass of test.*	X	X	X	X	X	X	X	X	X	X	X
8	Operate TLK key.	X	X	X	X	X	X	X	X	X	X	X
9	Select ringing combination 01.	X	X	X	X	X	X		X	X	X	X
10	Operate TTL key.	X	X	X	X	X	X		X		X	
11c	If test attendant trunk is arranged for console operation— Operate TST CNSL key.								X			
12c	Plug attached cord of test console into CNTX TST CONN T jack.								X			
13d	If test attendant trunk is arranged for 608 A switchboard operation— At MTF— Plug cord of handset into ORT jack. (Handset switch in MON position.)								X			

— Omit step
Proceed to METHOD

* TOL lamp lighted

3. PREPARATION

Refer to 1.04 through 1.16

STEP	ACTION	TEST											
		L	M	N	O	P	Q	R	S	T	U	V	
1	At MTF— Restore all keys and switches.	X	X	X	X	X	X	X	X	X	X	X	X
2	Momentairly operate RL key.	X	X	X	X	X	X	X	X	X	X	X	X
3a	If 17E testboard appearance is provided— Have testboard attendant make trunk busy to outgoing and incoming calls.	X	X	X	X	X	X	X	X	X	X	X	X
4b	If 17E testboard appearance is <i>not</i> provided— At MTF jack, lamp, and key circuit— Insert make-busy plug into OGT-MB jack associated with trunk under test and have trunk removed from service at distant office.	X	X	X	X	X	X	X	X	X	X	X	X
5	At relay rack— When IN, SG relays on trunk under test are not operated— Patch T1, T2 jacks on trunk under test to TOL T1, TOL T2 jacks on frame.	X	X	X	X	X	X	X	X	X	X	X	X
6	At MTF— Select 1TNP class of test.	X	X	X	X	X	X	X	X	X	X	X	X
7	Select TOL subclass of test*	X	X	X	X	X	X	X	X	X	X	X	X
8	Operate TLK Key.	X	X	X	X	X	X	X	X	X	X	X	X
9	Select ringing combination 01.	X	X	X	X	X	X	X	X	X	X	X	X
10	Operate TTL key.	X	X	X	X	X	X	X	X	X	X	X	X
11c	If test attendant trunk is arranged for console operation— Operate TST CNSL key.		X		X	X	X	X		X	X		
12c	Plug attached cord of test console into CNTX TST CONN T jack.		X		X	X	X	X		X	X		
13d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Plug cord of handset into ORT jack. (Handset switch in MON position.)		X		X	X	X	X		X	X		

— Omit step
Proceed to METHOD

* TOL lamp lighted

3. PREPARATION *Refer to 1.04 through 1.16*

STEP	ACTION	TEST									
		W	X	Y	Z	AA	AB	AC	AD	AF	AG
1	At MTF— Restore all keys and switches.	X	X	X	X	X	X	X	X	X	X
2	Momentarily operate RL key.	X	X	X	X	X	X	X	X	X	X
3a	If 17E testboard appearance is provided— Have testboard attendant make trunk busy to outgoing and incoming calls.	—	—	—	—	—	—	X	X	—	—
4b	If 17E testboard appearance is <i>not</i> provided— At MTF jack, lamp, and key circuit— Insert make-busy plug into OGT-MB jack associated with trunk under test and have trunk removed from service at distant office.	—	—	—	—	—	—	—	X	—	—
5	At relay rack— When IN, SG relays on trunk under test are not operated— Patch T1, T2 jacks on trunk under test to TOL T1, TOL T2 jacks on frame.	—	—	—	—	—	—	X	—	—	—
6	At MTF— Select 1TNP class of test.	—	—	—	—	—	—	X	—	—	—
7	Select TOL subclass of test.*	—	—	—	—	—	—	X	—	—	—
8	Operate TLK key.	X	X	X	X	X	X	X	X	X	X
9	Select ringing combination 01.	—	—	—	—	—	—	X	—	—	—
10	Operate TTL key.	—	—	—	—	—	—	X	—	—	—
11c	If test attendant trunk is arranged for console operation— Operate TST CNSL key.	—	—	—	—	—	—	—	—	—	—
12c	Plug attached cord of test console into CNTX TST CONN T jack.	—	—	—	—	—	—	—	—	—	—
13d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Plug cord of handset into ORT jack. (Handset switch in MON position.)	—	—	—	—	—	—	—	—	—	—
14	Select OGT class of test.	X	X	X	X	X	X	—	X	X	—
15	Select class of service, rate treatment as required having access to trunk under test.	X	X	X	X	X	X	—	X	X	X
16	Select A- through K-digits as required to route to trunk under test.	X	X	X	X	X	X	—	X	X	—

- Omit step
Proceed to METHOD
* TOL lamp lighted

3. PREPARATION

Refer to 1.04 through 1.16

STEP	ACTION	TEST									
		W	X	Y	Z	AA	AB	AC	AD	AF	AG
17	Select originating class of call and associated translator indication.	X	X	X	X	X	X		X	X	X
18	Select trunk location.	X	X	X	X	X	X		X	X	X
19	Operate GPA/GPB key when trunk under test is in an allotted group.	X	X	X	X	X	X		X	X	X
20	Select route advance, as required.	X	X	X	X	X	X		X	X	X
21	Select completing marker.	X	X	X	X	X	X		X	X	X
22	Operate KY, EM, FS, TS keys.	X	X	X	X	X	X		X	X	X
23e	If ETS provided— Operate PCS, PTS keys.	X	X	X	X	X	X		X	X	X
24f	If trunk is to be tested for CDT—Operate CDTT key	X		X	X	X	X		X	X	X
25f	When trunk is assigned to CDT dual controller, select controller—Operate CDC 0/1 key.	X		X	X	X	X		X	X	X
26f	When a trouble record is to be taken from the CDT Translator Access (TA) circuit—Operate TREC key.	X		X	X	X	X		X	X	X
27f	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.	X		X	X	X	X		X	X	X

— Omit step
Proceed to METHOD

* TOL lamp lighted

4. METHOD

STEP	ACTION	VERIFICATION
A. Trunk Seizure, Release, and Pad Control—Local Completion and Through-Switch Calls		
Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class o trunk under test.	
12d	If marker provides pad control— Operate 2WD key.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
15	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard. If marker provides pad control— At relay rack frame— ES relay operated.
16	At MTF— Restore ANS key.	OGT-CS lamp extinguished.
17	Restore TLK key.	TS lamp extinguished.
18	Momentarily operate RL key.	All lamps extinguished except TOL.
Through Switch		
19	Insert make-busy plugs into IRMB_ jacks of incoming registers associated with trunk being tested and served by even-numbered incoming register marker connectors.	
20	Select A-, B-, and C- digits assigned to simulated 2-wire trunk (part of SD-25918-01) for through-switched testing.	
21	Operate E-M, REC keys.	
22	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.

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STEP	ACTION	VERIFICATION
23	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ E lamp lighted. SLV lamp may light momentarily. Trouble record taken. Perforations show TKT, OCN, TRK or 1TR and FTT_, FUT_, VGT_, HGT_, VFT_ representing one of the line link frame appearances of the trunk being tested.
24	Remove make-busy plugs from IRMB_ jacks.	
25	Operate ANS key.	OGT-CS lamp lighted. High tone heard.
26	Restore E-M, TLK, ANS keys.	E, OGT-CS lamps extinguished. High tone silenced.
27	Momentarily operate RL key.	All lamps extinguished except TOL.
28	Insert make-busy plugs into IRMB_ jacks of incoming registers associated with trunk being tested and served by odd-numbered incoming register marker connectors.	
29	Operate TLK, E-M keys.	
30	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
31	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ E lamp lighted. SLV lamp may light momentarily. Trouble record taken. Perforations show TKT, ECN, TRK or 1TR and FTT_, FUT_, VGT_, HGT_, VFT_ representing one of the line link frame appearances of the trunk being tested.
32	Remove make-busy plugs from IRMB_ jacks.	
33	Operate ANS key.	OGT-CS lamp lighted. High tone heard.
34	Restore TLK, E-M keys.	E, OGT-CS lamps extinguished. High tone silenced.
35	Momentarily operate RL key.	All lamps extinguished except TOL.

STEP	ACTION	VERIFICATION
All Tests		
36	Restore all keys and switches not required in next test.	TOL lamp extinguished.
37e	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
38a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
39b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
B. Ringing—Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
13	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R-, R+, T-, or T+ lamp flashes (Table A). Ringing tone heard in unison with R-, R+, T-, or T+ lamp flashes.
14	Momentarily operate RL key.	All lamps extinguished except TOL.
15	Repeat Steps 12, 13, and 14 for each ringing combination provided to be applied to ringing test line (Table A).	
16	Restore all keys and switches not required in next test.	TOL lamp extinguished.
17d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
18a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	

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STEP	ACTION	VERIFICATION
19b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
C. Pretrip and Trip—Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
13	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
14	Hold PTP key operated for 1/2 second during silent interval of ringing cycle.	R- lamp continues to flash at same rate.
15d	If test circuit has a 1500-ohm test resistance— Hold RTP key operated for 1/2 second during silent interval of ringing cycle.	R- lamp extinguished. Ringing tone silenced.
16e	If test circuit has 1622-ohm test resistance— Hold RTP key operated for 1 second during silent interval of ringing cycle.	R- lamp extinguished. Ringing tone silenced.
17	Momentarily operate RL key.	All lamps extinguished except TOL.
18	Restore all keys and switches not required in next test.	TOL lamp extinguished.
19f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
20a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
21b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

STEP	ACTION	VERIFICATION
D. Supervision—Terminating End Disconnect—Local Completion and Through-Switch Calls		
Local Completion		
	<i>Note:</i> Do not make this test until trunk has been idle for a minimum of 2 minutes.	
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12d	Operate 2WD key.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
15	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
16	After 6 to 8 seconds— Restore ANS key; <i>start timing.</i>	High tone silenced. If noncentrex call— OGT-CS lamp extinguished. If centrex call— In 2 to 3 seconds— OGT-CS lamp extinguished. If shortened disconnect interval is provided— In 2 to 5 seconds— TS lamp extinguished. If shortened disconnect interval is not provided— In 13 to 32 seconds— TS lamp extinguished.
17	Restore TLK key.	
18	Momentarily operate RL key.	All lamps extinguished except TOL.
Through Switch		
19	Select A_, B_, and C_ digits assigned to simulated 2-wire trunk (part of SD-25918-01) for thorough-switched testing.	
20	Operate TLK, E-M keys.	

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STEP	ACTION	VERIFICATION
21	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
22	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ E lamp lighted. SLV lamp may light momentarily.
23	Operate ANS key.	OGT-CS lamp lighted. High tone heard.
24	After 6 to 8 seconds— Restore ANS key; <i>start timing</i> .	OGT-CS lamp extinguished. High tone silenced. After 35 seconds— E lamp remains lighted.
25	Momentarily operate RL key.	All lamps extinguished except TOL.

All Tests

26	Restore all keys and switches not required in next test.	TOL lamp extinguished.
27d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
28a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
29b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

E. Supervision—Originating End Disconnect—Local Completion and Through-Switch Calls

Local Completion

Note: Do not make this test until trunk has been idle for a minimum of 2 minutes.

11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
13	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆

STEP	ACTION	VERIFICATION
		SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
14	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
15	Restore TLK key; <i>start timing.</i>	High tone silenced. OGT-CS lamp extinguished. In 13 to 32 seconds— TS lamp extinguished.
16	Restore ANS key.	
17	Momentarily operate RL key.	All lamps extinguished except TOL.

Through Switch

18	Select A_, B_, and C_ digits assigned to simulated 2-wire trunk (part of SD-25918-01) for through-switched testing.	
19	Operate TLK, E-M keys.	
20	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
21	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ E lamp lighted. SLV lamp may light momentarily.
22	Operate ANS key.	OGT-CS lamp lighted. High tone heard.
23	Restore TLK key.	High tone silenced. OGT-CS, E lamps extinguished.
24	Momentarily operate RL key.	All lamps extinguished except TOL.

All Tests

25	Restore all keys and switches not required in next test.	TOL lamp extinguished.
26d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	

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STEP	ACTION	VERIFICATION
27a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
28b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
F. Supervision—Originating End Disconnect—Trunk Seizure Prior to Time-Out—Local Completion		
<i>Note:</i> Do not make this test until trunk has been idle for a minimum of 2 minutes.		
11	At MTF jack, lamp, and key circuit— Plug cord of handset into TM2 jack. (Handset switch in MON position.)	
12c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
15	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
16	Operate handset switch to TALK.	
17	At jack, lamp, and key circuit— Operate TM2 key.	At MTF— High tone silenced. Transmission established between MTF handset and handset in TM2 jack.
18	Restore ANS, TTL keys.	
Incoming Seizure Prior to Time-Out		
19	Operate A_ through E_ for permanent busy test number.	

STEP	ACTION	VERIFICATION
20	Operate KRC key.	
21	Momentarily operate RL key.	All lamps except TS, TOL extinguished.
22	Momentarily operate ST key. <i>Note:</i> The ST key should be momentarily operated within 2 to 10 seconds after the operation of the RL key in Step 21.	‡ OGT-CS lamp lighted momentarily. TS lamp extinguished.
23	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. Busy tone heard.
24	Momentarily operate RL key.	Busy tone silenced. All lamps extinguished except TOL.
25	At jack, lamp, and key circuit— Remove handset from TM2 jack.	
26	Restore TM2 key.	

Outgoing Seizure Prior to Time-Out

27	At MTF— Repeat Steps 11 through 18.	
28	Operate NTFS, NTTS, E-M keys.	
29	Operate A_ through K_ as required to select trunk under test.	
30	Restore ITNP class of test.	
31	Select OGT class of test.	
32	Select trunk under test.	
33	Select completing marker.	
34	Select route advance as required.	
35d	◆If trunk is to be tested for CDT— Operate CDTT key.	
36d	When trunk is assigned to CDT dual controllers, select controller— Operate CDC 0/1 key.	

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STEP	ACTION	VERIFICATION
37d	When a trouble record is to be taken from the CDT translator access (TA) circuit— Operate TREC key.	
38d	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. <i>Note:</i> When a TA circuit is not selected, the controller will select the next available TA circuit.♦	
39	Momentarily operate RL key. <i>Note:</i> Steps 40 and 41 should be performed within 2 to 10 seconds after Step 39.	All lamps except TS, TOL extinguished.
40	Restore TOL subclass of test.	TOL lamp extinguished.
41	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. E, AS lamps lighted. TS lamp extinguished.
42	Momentarily operate RL key.	All lamps extinguished.
43	At jack, lamp, and key circuit— Remove handset from TM2 jack.	
All Tests		
44	Restore all keys and switches not required in next test.	
45e	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
46a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
47b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit—	

STEP	ACTION	VERIFICATION
	Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
G. Line-Busy—Noncentrex and Centrex Dial Transfer Calls—Local Completion		
Noncentrex		
9	Operate BB key.	
10	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
11	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. Line-busy tone heard.
12	Momentarily operate RL key.	All lamps extinguished except TOL.
13	Restore BB key.	
Centrex Dial Transfer		
14c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate TTL, CTTL, CNTX, CTLB, TLT2 keys.	
16	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
17	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
18	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
19	Operate CTX1 key.	High tone silenced.
20	Momentarily restore TLK key.	Dial tone heard.
21	At MTF telephone, key, and lamp circuit— Dial A_ through G_ digits as required for	Busy tone heard.

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STEP	ACTION	VERIFICATION
	number assigned to centrex permanent busy test number.	
22	At MTF— Operate CTX4 key.	
23	Restore CTX1 key.	Busy tone silenced.
24	Operate CTX1 key.	Busy tone heard.
25	Restore and reoperate TLK key.	Busy tone silenced.
26	Restore CTX1, CTX4 keys.	High tone heard.
27	Momentarily operate RL key.	All lamps extinguished except TOL.

All Tests

28	Restore all keys and switches not required in next test.	TOL lamp extinguished.
29d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
30a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
31b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

H. Line-Busy or Overflow to Attendant—Trunks Arranged for Centrex

14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	At MTF— Operate CNTX, CTTL, CDN, TLK keys.	CDN lamp lighted.
16d	If test attendant trunk is arranged for 608A switchboard operation— Patch IRT jack of test set to IRT jack of test circuit for register and CAMA sender circuits.	

STEP	ACTION	VERIFICATION
17d	At test set— Operate MF key.	
18	At MTF— Momentarily operate ST key.	
19	Momentarily operate LS key.	<p>◆If ETS provided— CS lamp lighted.◆ Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CT lamp flashes at 60 ipm.</p>
20c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
21c	Operate TST key for approximately 1/2 second.	Source lamp flashes at 60 ipm. PA/RLS lamp extinguished.
22c	Momentarily operate Talk key associated with flashing Source lamp.	Talk, Source lamps lighted steadily. Transmission established between MTF and test console. At MTF— Ringing tone silenced.
23c	At test console— Momentarily operate STI key.	RDY lamp lighted.
24c	Key A_ through E_ digits as required, corresponding to the permanent busy number.	
25c	Momentarily operate END key.	<p>RDY lamp extinguished. If line-busy is tested— Destination lamp flashes at 60 ipm. 60-ipm tone heard. At MTF— 60-ipm tone not heard. If overflow is tested— At test console— Destination lamp flashes at 120 ipm. 120-ipm tone heard. At MTF— 120-ipm tone not heard.</p>

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STEP	ACTION	VERIFICATION
26c	At test console— Momentarily operate RLS DEST key.	Destination lamp extinguished. 60- or 120-ipm tone not heard. Transmission re-established from MTF to test console.
27c	Momentarily operate PA/RLS key.	TST, Talk lamps extinguished. PA/RLS lamp lighted.
28d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Operate CANS key.	CTX lamp extinguished. Transmission established from MTF to handset at ORT jack.
29d	At test console— Operate STI key.	RDY lamp lighted.
30d	At test set— Momentarily operate KP key.	
31d	Key A_ through E_ digits as required, corresponding to the permanent busy number.	
32d	Momentarily operate ST key.	
33d	At test console— Restore STI key.	RDY lamp extinguished. 60- or 120-ipm tone not heard. If line-busy is tested— CTX lamp flashes at 60 ipm. At handset in ORT jack— 60-ipm overflow tone heard. If overflow is tested— CTX lamp flashes at 120 ipm. At handset in ORT jack— 120-ipm overflow tone heard.
34d	At MTF— Operate RD key for 1 second.	60- or 120-ipm tone not heard at handset. Transmission re-established from MTF to handset in ORT jack.
35d	At MTF— Restore CANS key.	
36	Restore CDN, TLK, SXS keys.	CDN lamp extinguished. If test attendant trunk is arranged for console operation— At test console— Source lamp extinguished.
37	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL. If test attendant trunk is arranged for console operation—

STEP	ACTION	VERIFICATION
		At test console— PA/RLS lamp extinguished.
38	Repeat Steps 18 through 37, keying A_ through E_ digits as required, corresponding to the permanent overflow number.	
39	Restore all keys and switches not required in next test.	TOL lamp extinguished.
40f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
41c	If test attendant trunk is arranged for console operation— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
42d	If test attendant trunk is arranged for 608A switchboard operation— At test set— Remove patching cord from test set IRT jack and IRT jack of test circuit for register and CAMA sender circuits.	
43d	At MTF— Remove handset from ORT jack.	
44a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
45b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
I. Overflow—Local Completion and Through-Switch Calls		
Local Completion		
10	Operate A_ through E_ for permanent overflow test number.	
11	Operate KY key.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.

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STEP	ACTION	VERIFICATION
13	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. Overflow tone heard.
14	Momentarily operate RL key.	All lamps extinguished except TOL.
15	Restore A_ through E_ digits.	

Through Switch

16	Operate A_ through C_ as required for outgoing office code.	
17	Operate E-M key.	
18c	If office is arranged for new numbering plan— Operate RO key.	
19d	If office is not arranged for new numbering plan— At relay rack frame— Block nonoperated TS1, TS2 relays associated with trunk under test.	
20	At jack, lamp, and key circuit— Insert make-busy plug into TRMB_ jack associated with marker used in test to prevent taking two trouble recorder cards.	
21	At MTF— Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
22	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ E lamp lighted. SLV lamp may light momentarily. Overflow tone heard.
23	Momentarily operate RL key.	All lamps extinguished except TOL.
24	At jack, lamp, and key circuit— Remove make-busy plug from TRMB_ jack associated with marker used in test.	
25d	If office is not arranged for new numbering plan— At relay rack frame— Remove blocking tools from TS1, TS2 relays.	

STEP	ACTION	VERIFICATION
All Tests		
26e	If no further tests are to be made— Remove patching cords from T1, T2 jacks.	
27	At MTF— Restore all keys and switches not required in next test.	TOL lamp extinguished.
28a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
29b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
J. Abandoned Call—Local Completion and Through-Switch Calls		
Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
13	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
14	Restore TLK key.	TS, R- lamps extinguished. Ringing tone silenced.
15	Momentarily operate RL key.	All lamps extinguished except TOL.
Through Switch		
16	Select A_, B_, and C_ digits assigned to simulated 2-wire trunk (part of SD-25918-01) for through switched testing.	
17	Operate TLK, E-M keys.	
18	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.

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STEP	ACTION	VERIFICATION
19	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ E lamp lighted. SLV lamp may light momentarily.
20	Restore TLK key.	E lamp extinguished.
21	Momentarily operate RL key.	All lamps extinguished except TOL.

All Tests

22	Restore all keys and switches not required in next test.	TOL lamp extinguished.
23d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
24a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
25b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

K. Class-of-Service Registration—Trunks Arranged for Centrex—Local Completion

Nondial Transfer

10	Operate KY, CGLS, REC keys.	
11	Operate A_ through K_ as required by the incoming class of trunk under test to select directing digits, if required, and centrex station number (see note) with restrictions to complete. <i>Note:</i> Select from office records centrex stations with classes of service as assigned that will operate all CT_, CU_ relays at least once.	
12	Momentarily operate ST key.	
13	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ Trouble record taken. CTUK designation perforated.

STEP	ACTION	VERIFICATION
14	Momentarily operate RL key.	All lamps extinguished except TOL.
15	Repeat Steps 11, 12, 13, and 14 until all tens and units digits have been tested.	
16	Restore KY, CGLS, REG, A_ through K_.	
Dial Transfer		
17	Operate CNTX, CTLB, CTTL, KCS, TLT2, TTL keys.	
18c	If directing digit or digits are required— Select A_, B_, and C_ digits as required for incoming class of trunk under test.	
19	Select class of service assigned to centrex terminating test line 1(C).	
20	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
21	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
22	Operate ANS key; <i>start timing</i> .	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
23	After 6 to 8 seconds— Restore and reoperate ANS key.	High tone silenced.
24	Operate CTX1 key.	Dial tone heard.
25	Dial 0.	Dial tone silenced. Trouble record taken— CT_, CU_ indications perforated corresponding to class of service.
26	Restore CTX1, ANS keys.	
27	Momentarily operate RL key.	All lamps extinguished except TOL.
28	Select class of service corresponding to test class of service CTX3.	
29	Repeat Steps 20 through 27.	

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STEP	ACTION	VERIFICATION
30	Select class of service corresponding to test class of service CTX4.	
31	Repeat Steps 20 through 27.	
32	Restore all keys and switches not required in next test.	TOL lamp extinguished.
33d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
34a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
35b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
L. No Transfer Register Available—Trunks Arranged for Dial Transfer Centrex—Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Operate CNTX, CTLB, TLT2, CCTL keys.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
15	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
16	At jack, lamp, and key circuit— Insert make-busy plugs into all TFRMB jacks.	
17	At MTF— Restore and reoperate ANS key.	High tone silenced.

STEP	ACTION	VERIFICATION
	Note: An on-hook for longer than 2 seconds starts a disconnect.	
18	Operate CTX1 key.	Dial tone not heard.
19	Restore CTX1 key.	
20	Restore and reoperate ANS key.	High tone heard.
21	Restore ANS key.	High tone silenced.
22	At jack, lamp, and key circuit— Remove make-busy plugs from TFRMB jacks.	
23	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL.
24	Restore all keys and switches not required in next test.	TOL lamp extinguished.
25d	If no further test are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
26a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
27b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
M. No Incoming Register Available—Trunks Arranged for Centrex		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate CDN, CNTX, TRF, CTLL keys.	TRF, CDN lamps lighted.
16	Momentarily operate ST key.	
17	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted.

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STEP	ACTION	VERIFICATION
		If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 60 ipm.
18c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
19c	Operate TST key for approximately 1/2 second.	TST lamp lighted. Source lamp flashes at 60 ipm. PA/RLS lamp extinguished.
20c	Operate Talk key associated with flashing Source lamp.	Talk, Source lamps lighted steadily. Transmission established between MTF and test console. At MTF— Ringing tone silenced.
21c	At relay rack of trunk under test— Insulate 7B of CO relay.	
22c	At test console— Momentarily operate STI key.	RDY lamp not lighted. Transmission removed from MTF to test console.
23c	Momentarily operate END key.	Transmission re-established between MTF and test console.
24c	Momentarily operate PA/RLS key.	TST, Talk lamps extinguished. PA/RLS lamp lighted.
25d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Operate CANS key.	CTX lamp extinguished. Ringing tone silenced. Transmission established from MTF to handset at ORT jack.
26d	At relay rack of trunk under test— Insulate 7B of CO relay.	
27d	At MTF— Operate STI key.	RDY lamp not lighted. At relay rack frame— S1 relay operated. CO relay released.
28d	At MTF— Momentarily operate RB key.	At relay rack frame— S1 relay released. CO relay operated.
29d	At MTF— Restore STI key.	Transmission remains from MTF to handset at ORT jack.

STEP	ACTION	VERIFICATION
30d	Restore CANS key.	
31	Restore CDN, TRF, TLK keys.	TRF, CDN lamps extinguished. If test attendant trunk is arranged for console operation— At test console— Source lamp extinguished.
32	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL. If test attendant trunk is arranged for console operation— At test console— PA/RLS lamp extinguished. At relay rack— CO relay released.
33	At relay rack of trunk under test— Remove insulator from 7B of CO relay.	
34	At MTF— Restore all keys and switches not required in next test.	TOL lamp extinguished.
35f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
36c	If test attendant trunk is arranged for console operation— Remove attached cord from CNTX TST CONN T jack.	
37d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Remove cord of handset from ORT jack.	
38a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
39b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

STEP	ACTION	VERIFICATION
N. Dial Transfer to Station—Trunks Arranged for Centrex—Local Completion		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Operate CNTX, CTLB, CTTL, TLT2 keys.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
15	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
16	Operate CTX1 key.	High tone silenced.
17	Restore ANS key.	
18	Operate CTX4 key.	
19	After approximately 3 seconds— Momentarily restore and reoperate TLK key.	TS lamp may flash momentarily. Dial tone heard.
20	Dial number assigned to centrex terminating test line 2.	TS2 lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
21	Restore CTX1 key.	Ringing tone silenced.
22	Operate CTX1 key.	Ringing tone heard.
23	Operate ANS key.	R- lamp extinguished. Ringing tone silenced. High tone heard.
24	Restore CTX1 key.	High tone silenced.
25	Momentarily restore ANS key.	High tone heard.
26	Operate CTX1 key.	High tone heard.

STEP	ACTION	VERIFICATION
27	Restore TLK key.	TS lamp extinguished. High tone silenced.
28	Operate TLK key.	
29	Restore CTX1 key.	High tone heard.
30	Momentarily operate RL key.	High tone silenced. All lamps extinguished except TOL.
31	Restore all keys and switches not required in next test.	TOL lamp extinguished.
32d	If no further test are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
33a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
34b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
O. Dial Transfer to an Attendant—Trunks Arranged for Centrex—Local Completion		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate CNTX, CTLB, CTTL, TLT2 keys.	
16	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
17	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
18	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
19	After approximately 3 seconds— Restore ANS key for approximately 1 second.	TS lamp may flash. High tone silenced.

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STEP	ACTION	VERIFICATION
20	Operate CTX1 key.	Dial tone heard.
21	Dial 0.	Ringing tone heard. If test attendant is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 120 ipm.
22c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
23c	Momentarily operate TST key.	Destination lamp lighted. PA/RLS lamp extinguished. Audible signal sounded. Source lamp flashes at 120 ipm.
24c	Momentarily operate Talk key associated with flashing Source lamp.	Talk lamp lighted. Source lamp lighted steadily. Audible signal silenced. At MTF— Ringing tone silenced. Transmission to test console.
25c	Restore CTX1 key.	High tone heard.
26c	Restore ANS key.	High tone silenced. After approximately 2 seconds— TS lamp extinguished.
27c	Restore TLK key.	OGT-CS lamp extinguished.
28c	At test console— Momentarily operate PA/RLS key.	All lamps extinguished except TOL. At test console— All lamps extinguished.
29c	At MTF— Momentarily operate RL key.	CTX lamp extinguished. Ringing tone silenced. Transmission established from MTF to handset at ORT jack.
31d	Restore TLK key.	OGT-CS lamp extinguished.
32d	Restore CANS key.	

STEP	ACTION	VERIFICATION
33d	Momentarily operate RL key.	All lamps extinguished except TOL.
34	Restore all keys and switches not required in next test.	TOL lamp extinguished.
35f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
36c	If test attendant trunk is arranged for console operation— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
37d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Remove cord of handset from ORT jack.	
38a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
39b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
P. Listed Directory Number Call—Trunks Arranged for Centrex—Local Completion		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate CDN, CNTX, TRF, CTTL keys.	TRF, CDN lamps lighted.
16	Momentarily operate ST key.	
17	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 60 ipm.

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STEP	ACTION	VERIFICATION
18c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
19c	Operate TST key for approximately 1/2 second.	Source lamp flashes at 60 ipm. PA/RLS lamp extinguished.
20c	Momentarily operate Talk key associated with flashing Source lamp.	Talk, Source lamps lighted steadily. Transmission established between MTF and test console. At MTF— Ringing tone silenced.
21d	If test attendant trunk is arranged for 608A switchboard operation— Operate CANS key.	CTX lamp extinguished. Ringing tone silenced. Transmission established from MTF to handset at ORT jack.
22	Restore TLK key.	If test attendant trunk is arranged for console operation— At test console— Source lamp extinguished. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp lighted.
23	Restore CDN, TRF keys.	CDN, TRF lamps extinguished.
24	Momentarily operate RL key.	All lamps extinguished except TOL. If test attendant trunk is arranged for console operation— At test console— Talk, TST lamps extinguished.
25d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Restore CANS key.	
26	Restore all keys and switches not required in next test.	TOL lamp extinguished.
27f	If no further test are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
28c	If test attendant trunk is arranged for console operation— Remove attached cord of test console from CNTX TST CONN T jack.	

STEP	ACTION	VERIFICATION
29d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Remove cord of handset from ORT jack.	
30a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
31b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
Q. Manual Transfer With Start-In Call—Trunks Arranged for Centrex—Local Completion		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate CNTX, CTTL keys.	
16d	If test attendant trunk is arranged for 608A switchboard operation— At test set— Patch IRT jack of test set to IRT jack of test circuit for register and CAMA sender circuits.	
17d	Operate MF key.	
18	At MTF— Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
19	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
20	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
21	Restore ANS key for 1/2 second.	If test attendant trunk is arranged for console operation— At test console— TST lamp lighted.

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STEP	ACTION	VERIFICATION
		If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 120 ipm.
22c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
23c	Operate TST key for approximately 1/2 second.	Source lamp flashes at 120 ipm. PA/RLS lamp extinguished. Destination lamp lighted steadily.
24c	Momentarily operate Talk key associated with flashing Source lamp.	High tone heard. Talk, Source lamps lighted steadily. PA/RLS lamp remains extinguished.
25c	Momentarily operate RLS DEST key.	High tone silenced. Destination lamp extinguished. At MTF— High tone silenced. TS lamp extinguished.
26c	Restore ANS key.	
27c	At test console— Momentarily operate STI key.	RDY lamp lighted.
28c	Key digits as required, corresponding to centrex terminating test line 1(A).	
29c	Momentarily operate END key.	Ringing tone heard. RDY lamp extinguished. Destination lamp flashes at 30 ipm. At MTF— TS lamp lighted. R- lamp flashes.
30c	Operate ANS key.	High tone heard. R- lamp extinguished. At test console— Destination lamp lighted steadily. High tone heard.
31c	Momentarily operate PA/RLS key.	Talk lamp extinguished. High tone silenced. PA/RLS lamp lighted. Within 2 to 4 seconds— PA/RLS, Source, Destination lamps extinguished.

STEP	ACTION	VERIFICATION
32d	If test attendant trunk is arranged for 608A switchboard operation— Operate CANS key.	CTX lamp lighted steadily. At handset plugged into ORT jack— High tone heard.
33d	At MTF— Momentarily operate RD key (1 second).	High tone silenced. TS lamp extinguished. At handset plugged into ORT jack— High tone silenced.
34d	At MTF— Restore ANS key.	
35d	Operate STI key.	RDY lamp lighted. CTX lamp extinguished.
36d	At test set— Momentarily operate KP key.	
37d	Key digits as required, corresponding to centrex terminating test line 1(A).	
38d	Momentarily operate ST key.	
39d	At MTF— Restore STI key.	RDY lamp extinguished. CTX lamp flashes at 30 ipm. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
40d	Operate ANS key.	High tone heard. In approximately 2 seconds— CTX lamp lighted steadily. R- lamp extinguished.
41d	Restore CANS key.	CTX lamp extinguished.
42	Restore ANS, TLK keys.	High tone silenced. TS lamp extinguished.
43	Momentarily operate RL key.	All lamps extinguished except TOL. If test attendant trunk is arranged for console operation— At test console— PA/RLS lamp remains extinguished.
44	Restore all keys and switches not required in next test.	TOL lamp extinguished.
45f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	

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STEP	ACTION	VERIFICATION
46c	If test attendant trunk is arranged for console operation— Remove attached cord of test console from CNTX TST CONN T jack.	
47d	If test attendant trunk is arranged for 608A switchboard operation— At test set— Remove patching cord from IRT jack of test set and IRT jack of test circuit for register and CAMA sender circuits.	
48d	At MTF— Remove cord of handset from ORT jack.	
49a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
50b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

R. Don't Answer Transfer—Trunks Arranged for Centrex—Local Completion

14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.
15	Set TERT switch to DAT.
16	Momentarily operate ST key.
17	Momentarily operate LS key.

OGT-CS lamp lighted momentarily.

♦If ETS provided—

CS lamp lighted.♦

SLV lamp may light momentarily.

TS lamp lighted.

R- lamp flashes.

Ringling tone heard in unison with R- lamp flashes.

Note: Determine from office records ringing time interval for which office is arranged (15, 30, 45, or 60 seconds). If interrupter has been seized just prior to test call seizure, timing interval could be as much as twice these timing intervals.

STEP	ACTION	VERIFICATION
		When ringing time interval is exceeded— TS, R- lamps extinguished. Ringing tone still heard. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 60 ipm.
18c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
19c	Operate TST key for approximately 1 second.	PA/RLS lamp extinguished. Source lamp flashes at 60 ipm. Audible signal sounds.
20c	Momentarily operate Talk key.	Talk lamp lighted. Source lamp lighted steadily. Audible signal silenced. At MTF— Ringing tone silenced. OGT-CS lamp lighted. Transmission established between MTF and test console.
21c	Restore TLK key.	No transmission between MTF and test console— OGT-CS lamp extinguished. At test console— All lamps extinguished.
22d	If test attendant trunk is arranged for 608A switchboard operation— Operate CANS key.	CTX lamp lighted steadily. OGT-CS lamp lighted. Ringing tone silenced.
23d	Operate handset switch to TALK.	Transmission from MTF to handset.
24d	Restore CANS key.	
25	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL.
26	Restore all keys and switches not required in next test.	TOL lamp extinguished.
27f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	

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STEP	ACTION	VERIFICATION
28c	If test attendant trunk is arranged for console operation— Remove attached cord of test console from CNTX TST CONN T jack.	
29d	If test attendant trunk is arranged for 608A switchboard operation— Remove cord of handset from ORT jack.	
30a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
31b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
S. All Attendant Trunks Busy on Transfer Call—Local Completion		
11	At MTF jack, lamp, and key circuit— Plug cord of handset into TM2 jack. (Handset switch in MON position)	
12c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
13	At relay rack frame of test attendant trunk— Operate MB switch to MB.	
14	At MTF— Operate CNTX, CTTL keys.	
15	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
16	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
17	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.

STEP	ACTION	VERIFICATION
18	At jack, lamp, and key circuit— In 6 to 8 seconds after ANS key is operated— Operate handset switch to TALK.	
19	Operate TM2 key.	Transmission from MTF to handset.
20	Restore handset switch for 1/2 second.	At handset— 120-ipm overflow tone heard. At MTF— 120-ipm overflow tone not heard.
21	Restore handset switch for 1/2 second.	At handset— 120-ipm tone silenced. Transmission re-established from MTF to handset.
22	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL.
23	Restore ANS, TLK keys.	
24	At jack, lamp, and key circuit— Restore TM2 key.	
25	Remove handset from TM2 jack.	
26	At relay rack of test attendant trunk— Operate MB switch to N.	
27	At MTF— Restore all keys and switches not required in next test.	TOL lamp extinguished.
28d	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
29a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
30b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	

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STEP	ACTION	VERIFICATION
T. Attendant Signal Source—Trunks Arranged for Centrex—Local Completion		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
15	Operate CDN, CNTX, TRF, CTTL keys.	TRF, CDN lamps lighted.
16	Momentarily operate ST key.	ITNP lamp lighted.
17	Momentarily operate LS key.	<p>◆If ETS provided— CS lamp lighted.◆ R- lamp flashes. Ringing tone heard in unison with R- lamp flashes. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— Within 4 seconds— CTX lamp flashes at 60 ipm.</p>
18c	If test attendant trunk is arranged for console operation— At test console— Momentarily operate PA/RLS key.	PA/RLS lamp lighted.
19c	Momentarily operate TST key.	PA/RLS lamp extinguished. Source lamp flashes at 60 ipm. Audible signal sounded.
20c	Momentarily operate Talk key.	Talk lamp lighted. Source lamp lighted steadily. Audible signal silenced. TST lamp extinguished. At MTF— Ringing tone silenced. OGT-CS lamp lighted. Transmission to test console.
21c	At test console— Momentarily operate SIG SRC key 4 or 5 times.	At MTF— OGT-CS lamp flashes in unison with operation and release of SIG SRC key.
22c	At test console— Momentarily operate PA/RLS key.	Talk, Source lamps extinguished.

STEP	ACTION	VERIFICATION
23d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Operate CANS key.	CTX lamp extinguished. OGT-CS lamp lighted. R- lamp extinguished. Ringing tone silenced. Transmission established from handset to telephone on MTF.
24d	At MTF— Momentarily operate RB key 4 or 5 times.	OGT-CS lamp flashes in unison with operation and release of RB key.
25d	Restore CANS key.	
26	At MTF— Momentarily operate RL key.	All lamps extinguished except TOL.
27	Restore all keys and switches not required in next test.	TOL lamp extinguished.
28f	If no other tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
29c	If test attendant trunk is arranged for console operation— At test console— Remove attached cord of test console from CNTX TST CONN T jack.	
30d	If test attendant trunk is arranged for 608A switchboard operation— At MTF— Remove handset from ORT jack.	
31a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
32b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
U. Cancel Dial Transfer on No Answer from Station or Attendant		
Transfer to Station		
14e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	

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STEP	ACTION	VERIFICATION
15	Operate CNTX, CTLB, TLT2 keys.	
16	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
17	Momentarily operate LS key.	<p>◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unision with R- lamp flashes.</p>
18	Operate ANS key.	<p>OGT-CS lamp lighted. R- lamp extinguished. High tone heard.</p>
19	Operate CTX1 key.	High tone silenced.
20	Restore ANS key.	
21	Operate CTX4 key.	
22	Momentarily restore TLK key.	<p>TS lamp may flash. Dial tone heard.</p>
23	Dial number assigned to centrex terminating test line 2.	<p>TS2 lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.</p>
24	Restore CTX1 key.	Ringing tone silenced.
25	Operate CTX1 key.	Ringing tone heard.
26	Momentarily restore TLK key.	<p>TS2, R- lamps extinguished. Ringing tone silenced.</p>
27	Operate ANS key.	
28	Restore CTX1, CTX4 keys.	High tone heard.
29	Momentarily operate RL key.	All lamps extinguished except TOL.
30	Restore ANS key.	
Transfer to an Attendant		
31e	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
32	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.

STEP	ACTION	VERIFICATION
33	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
34	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
35	After 3 seconds— Restore and reoperate ANS key.	TS lamp may flash. High tone silenced.
36	Operate CTX1 key.	Dial tone heard.
37	Dial 0.	Ringing tone heard. If test attendant trunk is arranged for console operation— At test console— TST lamp lighted. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp flashes at 120 ipm.
38	Restore CTX1 key.	Ringing tone silenced.
39	Momentarily restore ANS key.	High tone heard. If test attendant trunk is arranged for 608A switchboard operation— At MTF— CTX lamp extinguished.
40	Momentarily operate RL key.	All lamps extinguished except TOL.
41	Restore all keys and switches not required in next test.	TOL lamp extinguished.
42f	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
43c	If test attendant trunk is arranged for console operation— Remove attached cord of test console from CNTX TST CONN T jack.	
44a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	

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STEP	ACTION	VERIFICATION
44b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
V. Transfer Denied		
11c	If directing digit or digits are required— Select A_, B_, and C_ digits, as required for incoming class of trunk under test.	
12	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
13	Momentarily operate LS key.	◆If ETS provided— CS lamp lighted.◆ SLV lamp may light momentarily. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
14	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. High tone heard.
15	Restore ANS key for 1 second.	OGT-CS lamp flashes. High tone momentarily silenced.
16	Momentarily operate RL key.	All lamps extinguished except TOL.
17	Restore all keys and switches not required in next test.	TOL lamp extinguished.
18d	If no further test are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
19a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
20b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
W. Trunk Seizure and Release—Outgoing		
28	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆

STEP	ACTION	VERIFICATION
		If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted.
29	Operate ANS key.	♦If CDDT key is operated— CS lamp lighted.♦ If ETS or LAMA-C provided— CS lamp lighted. High tone heard.
30	Restore TLK key.	♦If CDDT key is operated— S1, CS lamps extinguished.♦ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. AS, E lamps extinguished.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore all keys and switches not required in next test.	
X. Supervision—Terminating End Disconnect—Outgoing Tandem		
24	Select subclass of test (TAN or TOL) corresponding to trunk class assigned to trunk under test.	TOL or TAN lamp lighted.
25f	If TOL subclass of test is selected and IC_ keys are provided in SD-25800-01— Operate TOL-RB key.	
26	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS, E lamps lighted.
27	Operate ANS key.	High tone heard.
28	Restore ANS key; <i>start timing</i> .	After 35 seconds— AS lamp remains lighted.
29	Momentarily operate RL key.	All lamps extinguished.
30	Restore all keys and switches not required in next test.	

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STEP	ACTION	VERIFICATION
Y. Charge and Noncharge Supervision—Local Originating Outgoing		
28g	If traffic sampling on a customer group basis is provided— Operate SMPL key.	
29h	If traffic sampling on a trunk group basis is provided— Operate SA key.	
30	Momentarily operate ST key.	<p>◆If CDTT key is operated— S1 lamp lighted.◆ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. If class of service is AMA or traffic sampling is provided and ETS or LAMA-C not provided— IE lamp lighted. T, U lamps lighted for tens, units digits of number assigned to circuit in call identity indexer. RN lamp lighted for number of recorder service circuit.</p>
31	Operate ANS key; <i>start timing</i> .	<p>◆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. If class of service is AMA or traffic sampling is provided and ETS or LAMA-C not provided— In 2 to 3 seconds— AE lamp lighted.</p>
32	Restore TLK key.	<p>◆If CDTT key is operated— S1, CS lamps extinguished.◆ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. High tone silenced. AS lamp extinguished. If class of service is AMA or traffic sampling</p>

STEP	ACTION	VERIFICATION
		is provided and ETS or LAMA-C not provided— DE lamp lighted.
33	Restore ANS key.	E lamp extinguished.
34	Momentarily operate RL key.	All lamps extinguished.
35i	If class of service is AMA or traffic sampling is provided and ETS, CDT, or LAMA-C not provided— Operate TLK key.	
36i	Momentarily operate ST key.	AS, E, IE lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted. T_ U_ lamps lighted for tens, units digits of number assigned to circuit in call identity indexer. RN_ lamp lighted for number of recorder serving circuit.
37i	Operate ANS key for 2 seconds maximum; <i>start timing.</i>	While ANS key is operated— High tone heard. AE lamp not lighted.
38i	Momentarily operate RL key.	All lamps extinguished.
39	Restore all keys and switches not required in next test.	
Z. Supervision—Terminating End Disconnect—Local Originating Outgoing		
	Note: Do not make this test until trunk has been idle for a minimum of 2 minutes.	
28g	If traffic sampling on a customer group basis is provided— Operate SMPL key.	
29h	If traffic sampling on a trunk group basis is provided— Operate SA key.	
30	Momentarily operate ST key.	◆If CDTT key is operated— S1 lamp lighted.◆ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted.

STEP	ACTION	VERIFICATION
31	Operate ANS key; <i>start timing</i> .	<p>If answer and disconnect supervision is provided— PK lamp lighted.</p> <p>If class of service is AMA or traffic sampling is provided and ETS, ♦CDT,♦ or LAMA-C not provided— IE lamp lighted. T_ U_ lamps lighted for tens, units digits of number assigned to circuit in call identity indexer. RN_ lamp lighted for number of recorder serving circuit.</p> <p>♦If CDTT key is operated— CS lamp lighted.♦</p> <p>If ETS or LAMA-C provided— CS lamp lighted. High tone heard.</p> <p>If answer and disconnect supervision is provided— PK lamp extinguished.</p> <p>If class of service is AMA or traffic sampling is provided and ETS, ♦CDT,♦ or LAMA-C not provided— In 2 to 3 seconds— AE lamp lighted.</p>
32	Restore ANS key; <i>start timing</i> .	<p>♦If CDTT key is operated— CS lamp extinguished.♦</p> <p>If ETS or LAMA-C provided— CS lamp extinguished. High tone silenced.</p> <p>In 13 to 32 seconds— E lamp extinguished.</p> <p>If class of service is AMA or traffic sampling is provided and ETS, ♦CDT,♦ or LAMA-C not provided— DE lamp lighted.</p> <p>If ETS provided FT, S1 lamp extinguished.</p> <p>If LAMA-C provided— S1 lamp extinguished.</p> <p>♦If CDTT key is operated— S1 lamp extinguished.♦</p>
33	Momentarily operate RL key.	All lamps extinguished.
34	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
AA. Overflow—Local Originating Outgoing		
28	Operate ROT key.	
29	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted. Overflow tone heard.
30	Momentarily operate RL key.	All lamps extinguished.
31	Restore all keys and switches not required in next test.	
AB. Sleeve Busy Indication to 17E Testboard		
28	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
29	At 17E testboard— Insert plug of head telephone set into position jack.	
30	Operate test cord TALK key.	
31	Make sleeve busy test.	Trunk tests busy.
32	Restore TALK key.	
33	Remove plug of telephone headset from position jack.	
34	At MTF— Momentarily operate RL key.	All lamps extinguished.
35	Restore all keys and switches not required in next test.	

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STEP	ACTION	VERIFICATION
AC.	Cross Office Lockout From 17E Testboard on Incoming Through-Switch Call	
11	Select A_, B_, and C_ digits as required for through-switched outgoing office code.	
12	Operate E-M key.	
13	Momentarily operate ST key.	OGT-CS lamp lighted momentarily.
14	Momentarily operate LS key.	♦If ETS provided— CS lamp lighted.♦ E lamp lighted. SLV lamp may light momentarily.
15	Operate ANS key.	OGT-CS lamp lighted. High tone heard.
16	At 17E testboard— Momentarily operate RST key.	
17	Insert plug of head telephone set into position jack.	
18	Operate test cord TALK key.	
19	Insert test cord into jack of trunk under test.	
20	Momentarily operate LOX key.	LO lamp lighted. At relay rack of trunk under test— LO relay momentarily operated. LO1 relay operated.
21	At MTF— Restore TLK, ANS keys.	OGT-CS, E lamps remain lighted.
22	At 17E testboard— Momentarily operate RST key.	LO lamp extinguished. At relay rack of trunk under test— LO1 relay released. At MTF— OGT-CS, E lamps extinguished.
23	Momentarily operate RL key.	All lamps extinguished except TOL.
24	At 17E testboard— Remove test cord from jack of trunk under test.	
25	Restore test cord TALK key.	
26	Remove plug of head telephone set from position jack.	

STEP	ACTION	VERIFICATION
27	At MTF— Restore all keys and switches not required in next test.	TOL lamp extinguished.
28c	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
29a	If 17E testboard appearance is provided— Have testboard attendant restore trunk to service at both ends.	
30b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack associated with trunk under test and have distant office restore trunk to service.	
AD. Trunk Busy to Outgoing Calls		
28	Operate NTFS, NTTS keys.	
29	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, E lamps lighted.
30	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
31	Restore NTTS and operate TS.	
32	Restore NTFS and operate FS.	
33	Momentarily operate ST key.	TB lamp lighted.
34	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
35g	If DR relay provided in trunk circuit— At relay rack of trunk under test— Connect ground to terminal strip A terminal 31.	DR relay operated.
36g	At MTF— Momentarily operate ST key.	TB lamp lighted.

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STEP	ACTION	VERIFICATION
37g	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
38g	Operate NTTS, NTFS keys.	
39g	Momentarily operate ST key.	TB lamp lighted.
40g	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
41g	At relay rack of trunk under test— Remove ground from terminal 31.	DR relay released.
42	Restore all keys and switches not required in next test.	
43a	If 17E testboard appearance is provided— Have testboard attendant remove make-busy condition applied in Step 3a.	If ETS provided— FT lamp extinguished.
44b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plug from OGT-MB jack.	If ETS provided— FT lamp extinguished.
AE.	False-Busy and False-Idle Conditions †(ETS not Provided)‡	
1	At MTF— Have trunk to be tested made busy at distant office by the testboard.	
2	At relay rack frame— Connect power to 1A fault locator; operate W-T switch to W and HR-LRT switch to HR.	Whistle heard.
3	Connect WT jack of 1A fault locator to terminal 45 (FT lead) of terminal strip B on unit, using cord equipped with 624B tool.	Whistle not heard.
4	While circuit being tested is idle— Block operated MB relay.	
5a	If 17E testboard appearance is provided— At MTF— Have testboard attendant make busy all other trunks using same route on same trunk link frame.	At relay rack frame— Whistle heard.
6b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit—	At relay rack frame— Whistle heard.

STEP	ACTION	VERIFICATION
	Insert make-busy plugs into OGT-MB jacks of all other trunks using same route on same of all other trunks using same route on same trunk link frame.	
7	Momentarily remove blocking tool from MB relay.	Whistle not heard while blocking tool is removed.
8a	If 17E testboard appearance is provided— At MTF— Have testboard attendant remove busy condition applied in Step 5a.	
9b	If 17E testboard appearance is not provided— At jack, lamp, and key circuit— Remove make-busy plugs from OGT-MB jacks.	
10	At relay rack frame— Connect HRG (high resistance ground) terminal to terminal 55 (F lead) of terminal strip B on circuit under test.	
11	Disconnect WT jack of 1A fault locator from terminal 45 (FT lead) and reconnect to terminal 15 (BT lead) of terminal strip B on circuit under test.	Whistle heard.
12	Remove blocking tool from MB relay.	Whistle not heard.
13	Remove test connections from terminal strip.	
14	Remove power connection from 1A fault locator connected in Step 2.	
15	At MTF— Have testboard attendant restore trunk to service at distant office.	

AF. Glare Feature

E Relay Operates in Less Than 40 MS After Marker Seizure

28	Select route advance 0.	
29	Operate ANS, GLMN keys.	
30	Momentarily operate ST key.	TB, GL lamps lighted.
31	Restore ANS, GLMN keys.	GL lamp extinguished.
32	Momentarily operate RL key.	All lamps extinguished.

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STEP	ACTION	VERIFICATION
E Relay Operates in 40 to 100 MS After Marker Seizure		
33	Operate GLMN key.	
34	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS lamp lighted. Overflow tone heard.
35	Restore TLK key.	♦If CDTT key is operated— S1 lamp extinguished.♦ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. AS lamp extinguished. GL lamp lighted.
36	Momentarily operate RL key.	All lamps extinguished.
37	Operate TLK key.	
38g	If TOL subclass of test is selected, and IC_ keys are provided in SD-25800-01— Operate TOL-RB key.	
39h	If tandem usage of trunk glare feature is being tested— Select subclass of test (TAN or TOL) corresponding to trunk class assigned to trunk under test.	TAN or TOL lamp lighted.
40h	Momentarily operate ST key.	GL lamp lighted.
41h	Momentarily operate RL key.	All lamps extinguished.
42h	Restore subclass of test.	
43	Restore GLMN key.	
E Relay Operates After Marker Glare Timer Operates		
44	Operate GLMX key.	
45	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided—

STEP	ACTION	VERIFICATION
		FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS, CPO lamps lighted.
46	Momentarily operate RL key.	All lamps extinguished.
47g	If TOL subclass of test is selected and IC_ keys are provided in SD-25800-01— Operate TOL- RB key.	
48h	If tandem usage of trunk glare feature is being tested— Select subclass of test (TAN or TOL) corresponding to trunk class assigned to trunk under test.	TAN or TOL lamp lighted.
49h	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS, OGT-CS lamps lighted.
50h	Momentarily operate RL key.	All lamps extinguished.
All Tests		
51	Restore all keys and switches not required in next test.	
AG. Call to Distant Office		
Call to Incoming Trunk Test Line—SD-27640-01		
28	Select MISC class of test.	
29	Select subclass of test (TAN or TOL) corresponding to trunk class assigned to trunk under test.	TAN or TOL lamp lighted.
30g	If TOL subclass of test is selected, and IC keys are provided in SD-25800-01— Operate TOL- RB key.	
31	Select digits, code, and number to route to incoming trunk test line in distant office.	
32	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS lamp lighted. OGT-CS lamp flashes in synchronism with supervisory test. Busy tone heard at end of test.

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STEP	ACTION	VERIFICATION
33	Momentarily operate RL key.	All lamps extinguished. Busy tone silenced.
34	Restore all keys and switches not required in next test.	
Call to 103 Test Trunk—SD-27795-01		
35	Select MISC class of test.	
36	Select subclass of test (TAN or TOL) corresponding to trunk class assigned to trunk under test.	TAN or TOL lamp lighted.
37g	If TOL subclass of test is selected, and IC_ keys are provided in SD-25800-01— Operate TOL- RB key.	
38	Select digits, code, and number to route to 103 test trunk in distant office. (ABC-103 or ABC-DEF-103)	
39h	If a 6-digit call is selected— Operate DL3 key.	
40i	If 9-digit call is selected— Operate DL6 key.	
41	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS, OGT-CS lamps lighted.
42	Operate LRR key.	
43	Momentarily operate RR key.	OGT-CS lamp extinguished.
44	Momentarily operate RR key.	OGT-CS lamp flashes at 120-ipm.
45	Momentarily operate RL key.	All lamps extinguished.
46	Restore all keys and switches not required in next test.	