2-WAY TRUNK CIRCUIT SD-27865-01
ARRANGED FOR CONSOLE OPERATION
TESTS USING TRUNK TEST CIRCUIT SD-25918-01
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section provides tests for multi level precedence preemption (MLPP) for 2-wire number 5 crossbar centrex offices that function as main PBX's in the autovon network, using SD-27865-01.

1.02 This section is reissued to add calling data transmitter (CDT) features to tests A, B, D, E, H, I, P, Q, S, T, U, V, AA, AB and AC. Revision arrows are used to emphasize the most significant changes. Equipment test lists are affected.

1.02 The tests covered are:

ROUTINE OUTGOING CALL

ROUTINE INCOMING CALL

PRIORITY OUTGOING CALL

NOTICE
Not for use or disclosure outside the
Bell System except under written agreement

1.04 When trunks are arranged for PNID, the register associated with the PS lead will be operated when Test W is performed. Local instructions should be followed for recording and reporting register operations caused by performing this test.

1.05 Test O requires an assistant at the service console when trunks are arranged for non-PNID.

1.06 Tests AD and AE require that all trunks on the same trunk link frame and in the same trunk group as trunk under test be made busy.

1.07 The dedicated centrex incoming trunk should be tested in accordance with the section covering incoming trunks.

1.08 ***Lettered Steps:*** A letter a, b, c, etc, added to a step number in Part 3 or 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

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

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 A statement between asterisks (*_____*) is added after action and verification statements to clarify the function being simulated in the test procedures of Part 4.

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

1.13 When 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.

1.14 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 wth 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.

1.15 ▮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 point 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 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 AC

2.01 Master test control circuit SD-25800-01.

2.02 Trunk test circuit SD-25918-01.

Tests A, C, H, L, S, U, W

2.03 KS3008 stopwatch or equivalent.

Tests C, AD, AE, AF

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

Tests F Through O, S, U, W, X, Y, Z

2.05 Patching cord, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord) (for patching MON and MLPP MTG jacks).

Tests F, G, J Through O, W, X, Y, Z

2.06 Two patching cords, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord) for patching T1, T2 jacks.

Tests P, Q, S, U

2.07 1014A dial hand test set (handset), equipped with a 2W38A cord assembly consisting of a W2CK cord, 310 plug, and 471A jack.

Tests AA, AB, AD, AE, AF

2.08 322A (make-busy) plugs, as required.

Tests AD, AE

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

2.10 Testing cord, W1AK cord, 6 feet long, equipped with one 296 (banana-type) plug, one 360B tool, and one 624B tool.

2.11 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip and one 624B tool as required (for connecting high resistance ground [HRG] to terminal strip terminals).

Tests AD, AE, AF

2.12 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 624A tool as required (for connecting ground to relay winding terminals).

2.13 258-type phenolic plug.

3. PREPARATION

Refer to paragraphs 1.04 through 1.16

3. PREPARATION

STEP	ACTION	TEST														
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	At MTF— Restore all keys and switches.	X	X	X	X	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	X	X	X	X
3	Patch MON jack to MLPP MTG jack (MLPP key set to OFF)	—	—	—	—	—	X	X	X	X	X	X	X	X	X	X
4	Select originating class of call and associated translator indication	X	X	X	X	X	—	—	X	X	—	—	—	—	—	—
5	Select completing marker.	X	X	X	X	X	—	—	X	X	—	—	—	—	—	—
6	Select OGT class of test.	X	X	X	X	—	—	—	X	X	—	—	—	—	—	—
7	Select route advance to route to trunk in trunk group.	X	X	X	X	X	—	—	X	X	—	—	—	—	—	—
8	Operates FS, TS keys.	X	X	X	X	X	—	—	X	X	—	—	—	—	—	—
9	Operate TLK, EM, KY keys.	X	X	X	X	X	—	—	X	X	—	—	—	—	—	—
10.	Select class of service and rate treatment having access to routine trunk link appearance of trunk under test.	X	X	X	X	X	—	—	—	—	—	—	—	—	—	—
11.	Select trunk to be tested—routine appearance.	X	X	X	X	X	—	—	—	—	—	—	—	—	—	—
12.	Select A through K digits as required to route call to routine appearance of trunk under test.	X	X	X	X	X	—	—	—	—	—	—	—	—	—	—
13a	If KAMA key provided and AMA record not required for test—Operate KAMA key	X	X	X	—	X	—	—	—	—	—	—	—	—	—	—
14b	If ETS provided— Operate PCS, PTS keys	X	X		X	X	—	—	X	X	—	—	—	—	—	—
15	Select class of service and rate treatment having access to precedence trunk link appearance of trunk under test.	—	—		—	—	—	—	X	X	—	—	—	—	—	—
16	Select trunk to be tested—precedence appearance.	—	—		—	—	—	—	X	X	—	—	—	—	—	—

— Omit step. Proceed to METHOD.

*When a TA circuit is not selected, the controller will select the next available TA circuit.

3. PREPARATION

STEP	ACTION	TESTS													
		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	At MTF— Restore all keys and switches.	X	X	X	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	X	X	X
3	Patch MON jack to MLPP MTF jack (MLPP key set to OFF)	—	—	—	X	—	X	—	X	X	X	X	—	—	—
4	Select originating class of call and associated translator indication	X	X	X	X	X	X	X	—	—	—	—	X	X	X
5	Select completing marker.	X	X	X	X	X	X	X	—	—	—		X	X	X
6	Select OGT class of test.	X	X		X	X	X	X	—	—	—		X	X	X
7	Select route advance to route to trunk in trunk group.	X	X	X	X	X	X	X	—	—	—	—	X	X	X
8	Operate FS, TS keys.	X	X	X	X	X	X	X	—	—	—	—	X	X	X
9	Operate TLK, EM, KY keys.	X	X	X	X	X	X	X	—	—	—	—	X	X	X
10	Select class of service and rate treatment having access to routine trunk link appearance of trunk under test.	X	X	—	X	X	—	—	—	—	—	—	X	—	X
11	Select trunk to be tested—routine appearance.	X	X	—	X	X	—	—	—	—	—	—	X	—	X
12	Select A through K digits as required to route call to routine appearance of trunk under test.	X	X	—	X	X	—	—	—	—	—	—	X	—	X
13a.	If KAMA key provided and AMA record not required for test— Operate KAMA key.	X	X	—	X	X	X	X	—	—	—	—	X	—	X
14b	If ETS provided— Operate PCS, PTS keys	X	X	X	X	X	X	X	—	—	—	—	X	X	X
15.	Select class of service and rate treatment having access to precedence trunk link appearance of trunk under test.	—	—	X	—	—	X	X	—	—	—	—	—	X	—
16.	Select trunk to be tested—precedence appearance.			X			X	X	—	—	—	—	—	X	

— Omit Step Proceed to METHOD

* When a TA circuit is not selected, the controller will select the next available TA circuit.

3. PREPARATION

STEP	ACTION	TEST														
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
17	Select A, B, C, digits as required for 1XX code to route call to precedence appearance of trunk under test.	—	—		—	—	—	—	X	X	—	—	—	—	—	—
18	Select ITNP class of test	—	—		—	—	X	X	—	—	X	X	X	X	X	X
19	Select TOL subclass of test.	—	—		—	—	X	X	—	—	X	X	X	X	X	X
20	Select ringing combination.	—	—		—	—	X	X	—	—	X	X	X	X	X	X
21	At relay rack frame— Patch T1, T2 jacks on trunks under test to T1, T2 jacks, respectively, at miscellaneous circuit for all frames.				—	—	X	X	—	—	X	X	X	X	X	X
22	At MTF— Operate TLK, TTL, CNTX keys.	—	—		—	—	X	X	—	—	X	X	X			
23c	If trunk under test is arranged for operation with Phase II or Phase III centrex— Operate CTTL key.	—	—		—	—	X	X	—	—	X	X	X			
24d	If trunk under test is arranged for operation with Phase I centrex— Operate CTH key.	—	—		—	—	X	X	—	—	X	X	X			
25e	♦If trunk is to be tested for CDT— Operate CDTT key.	X	X		X	X			X	X						
26e	When trunk is assigned to CDT dual controllers, select controller— Operate CDC 0/1 key.	X	X		X	X			X	X						
27	When a trouble record is to be taken from the CDT translator access (TA) circuit— Operate TREC key.	X	X		X	X			X	X						
28e	*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.	X	X		X	X			X	X						

— Omit step. Proceed to METHOD.

When a TA circuit is not selected, the controller will select the next available TA circuit.

3. PREPARATION

STEP	ACTION	TESTS													
		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
17.	Select A, B, C, digits as required for 1XX code to route call to precedence appearance of trunk under test.	—	—	X	—	—	X	X	—	—	—	—	—	X	—
18.	Select ITNP class of test.	—	—		—	—	—	—	X	X	X	X	—	—	—
19.	Select TOL subclass of test.	—	—		—	—	—	—	X	X	X	X	—	—	—
20.	Select ringing combination.	—	—		—	—	—	—	X	X	X	X	—	—	—
21.	At relay rack frame— Patch T1, T2 jacks on trunk under test to T1, T2 jacks, respectively, at miscellaneous circuit for all frames.	—	—		—	—	—	—	X	X	X	X	—	—	—
22.	At MTF— Operate TLK, TTL, CNTX keys.	—	—		—	—	—	—	X	X			—	—	—
23c.	If trunk under test is arranged for operation with Phase II or Phase III centrex— Operate CTTL key.	—	—		—	—	—	—	X	X			—	—	—
24d	If trunk under test is arranged for operation with Phase I centrex— Operate CTH key.	—	—		—	—	—	—	X	X			—	—	—
25e.	◗If trunk is to be tested for CDT— Operate CDTT key.	X	X		X	X	X	X					X	X	X
26e	When trunk is assigned to CDT dual controllers select controller— Operate CDC 0/1 key.	X	X		X	X	X	X					X	X	X
27e	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	X
28e	*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.	X	X		X	X	X	X					X	X	X

— Omit Step Proceed to METHOD

* When a TA circuit is not selected, the controller will select the next available TA circuit.

STEP	ACTION	VERIFICATION
4. METHOD		
ROUTINE OUTGOING CALL		
A. Trunk Seizure, Release, and Supervision		
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. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— IE, RN_, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Operate ANS key.	▶If CDTT key is operated— CS lamp lighted.◀ If ETS or CAMA-C provided— CS lamp lighted. High tone heard. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— In approximately 1 second— AE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
32	Restore TLK key. *Calling end disconnect.*	▶If CDTT key is operated— S1, CS lamps extinguished◀ If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. High tone silenced. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— DE lamp lighted. AS, E lamps extinguished.
33	Momentarily operate RL key.	All lamps extinguished.
34	Restore ANS key.	

STEP	ACTION	VERIFICATION
35	Operate TLK key.	
36	Repeat Steps 29, 30, 31.	
37	Restore ANS key; ***start timing.*** *Call end disconnect.*	▶If CDTT key is operated— CS lamp extinguished.◀ If ETS or LAMA-C provided— CS lamp extinguished. E lamp extinguished. High tone silenced. In 13 to 32 seconds— AS lamp extinguished. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— DE lamp lighted. If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. ▶If CDTT key is operated— S1 lamp extinguished.◀
38	Momentarily operate RL key.	All lamps extinguished.
39	Restore all keys and switches not required in next test.	

B. Abandoned Call

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. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— IE, RN_, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Restore TLK key. *Abandoned Call.*	▶If CDTT key is operated— S1, CS lamps extinguished◀ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided—

STEP	ACTION	VERIFICATION
		S1 lamp extinguished. AS, E lamps extinguished. If answer and disconnect supervision is provided— PK lamp extinguished.
32	Momentarily operate RL key.	All lamps extinguished.
33	Restore all keys and switches not required in next test.	

C. Cancel Disconnect Entry—AMA Features Provided (ETS, ▶CDT,◀ or LAMA-C not Provided)

14	Momentarily operate ST key.	AS, E lamps lighted. IE, RN_, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
15	Momentarily operate ANS key. *Wink or delay dial.*	
16	Operate ANS key.	High tone heard. In approximately 1 second— AE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
17	Insert make-busy plug into MB jack of trunk under test.	
18	At relay rack frame— Insulate 11B of S2 relay on trunk under test.	
19	At MTF— Restore TLK, ANS keys simultaneously.	High tone silenced. AS, E lamps extinguished. DE lamp ***not*** lighted. At relay rack frame— S2 relay released.
20	After S2 relay released, ***start timing.***	In 2 to 5 seconds— MA relay released. *Verification of TR relay operation.*
21	Remove insulation from S2 relay.	
22	At MTF— Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
23	Remove make-busy plug from jack of trunk under test.	
24	Restore all keys and switches not required in next test.	
D. Reorder		
29	Operate ROT 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 lamp lighted. Overflow tone heard.
31	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. Overflow tone silenced.
32	Momentarily operated RL key.	All lamps extinguished.
33	Restore all keys and switches not required in next test.	
E. Call To Busy Line		
29	Select MISC class of test.	
30	Select A through K digits as required to route call to permanent busy number in distant office.	
31	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. Busy tone heard. If answer and disconnect supervision is provided— PK lamp lighted.

STEP	ACTION	VERIFICATION
32	Momentarily operate RL key.	All lamps extinguished. Busy tone silenced.
33	Restore all keys and switches not required in next test.	

ROUTINE INCOMING CALL

F. Trunk Seizure, Release, and Supervision

25	Select A, B, C digits for local completion.	
26	Operate LS key.	
27f	If trunk is arranged for non-PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
28g	If trunk is arranged for PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
26g	Dial digit 4. *Routine priority digit.*	TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
30	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Ringing tone silenced. High tone heard.
31	Restore TLK key. *Calling end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
32	Momentarily operate RL key.	All lamps extinguished.
33	Restore ANS key.	
34	Operate TLK key.	
35	Repeat Steps 27e through 30.	
36	Restore ANS key. *Called end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
37	Momentarily operate RL key.	All lamps extinguished.
38	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
39h	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
40h	At MTF— Remove patching cord from MON and MLPP MTG jacks.	
	G. Abandoned Call	
25	Select A-, B-, C- digits for local completion.	
26	Operate LS key.	
27f	If trunk is arranged for non-PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
28g	If trunk is arranged for PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
29g	Dial digit 4. *Routine priority digit.*	TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
30	Restore TLK key. *Abandoned call.*	RS, R- lamps extinguished. Ringing tone silenced.
31	Restore all keys and switches not required in next test.	
32h	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
33h	At relay rack frame— Remove patching cords from T1, T2 jacks.	
	PRIORITY OUTGOING CALL	
	H. Trunk Seizure, Release, and Supervision	
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.

STEP	ACTION	VERIFICATION
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▸or CDTT key operated—◂ CS lamp lighted while ANS key operated. PK lamp lighted.
31	Operate ANS key.	▸If CDTT key is operated— CS lamp lighted.◂ If ETS or LAMA-C provided— CS lamp lighted. PK lamp extinguished. High tone heard.
32	Restore TLK key. *Calling end disconnect.*	▸If CDTT key is operated— S1, CS lamps extinguished◂ If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. High tone silenced. AS, E lamps extinguished.
33	Momentarily operate RL key.	All lamps extinguished.
34	Restore ANS key.	
35	Operate TLK key.	
36	Repeat Steps 29, 30, 31.	
37	Restore ANS key; ***start timing.*** *Calling end disconnect.*	▸If CDTT key is operated— CS lamp extinguished.◂ If ETS or LAMA-C provided— CS lamp extinguished. High tone silenced. E lamp extinguished. In 13 to 32 seconds— AS lamp extinguished. If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. ▸If CDTT key operated— S1 lamp extinguished.◂
38	Momentarily operate RL key.	All lamps extinguished.
39	Restore all keys and switches not required in next test.	
40f	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	

STEP	ACTION	VERIFICATION
I. Abandoned Call		
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 ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated. PK lamp lighted.
31	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, E, PK lamps extinguished.
32	Momentarily operate RL key.	All lamps extinguished.
33	Restore all keys and switches not required in next test.	
34f	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
PRIORITY INCOMING CALL		
J. Trunk Seizure, Release, and Supervision—Trunk Arranged for PNID		
25	Select A, B, C digits for local completion.	
26	Operate LS key.	
27	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
28	Dial digit 0. *Priority 0.*	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard.
29	Within 13 seconds— Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Interrupted tone silenced. High tone heard.

STEP	ACTION	VERIFICATION
30	Restore TLK key. *Calling end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore ANS key.	
32	Operate TLK key.	
34	Repeat Steps 26 through 29.	
35	Restore ANS key. *Called end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
36	Momentarily operate RL key.	All lamps extinguished.
37	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
38	Dial digit 1. *Priority 1.*	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard.
39	Within 13 seconds— Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Interrupted tone silenced. High tone heard.
40	Momentarily operate RL key.	All lamps extinguished. High tone silenced.
41	Restore ANS key.	
42	Repeat Steps 35 through 39, dialing digits 2 and 3 on successive tests for Step 36.	
43	Restore all keys and switches not required in next test.	
44e	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
45e	At MTF— Remove patching cord from MON and MLPP MTG jacks.	

K. Abandoned Call—Trunk Arranged for PNID

25	Select A, B, C digits for local completion.	
26	Operate LS key.	

STEP	ACTION	VERIFICATION
27	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
28	Dial digit 0. *Priority 0.*	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard.
29	Within 13 seconds— Restore TLK key.	TS, R- lamps extinguished. Interrupted tone silenced.
30	Momentarily operate RL key.	All lamps extinguished.
31	Restore all keys and switches not required in next test.	
32e	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
33e	At relay rack frame— Remove patching cords from T1, T2 jacks.	
L. Don't Answer Transfer—Trunk Arranged for PNID		
25	Select A, B, C digits for local completion.	
26	Operate LS, CNSL keys.	
27	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
28	Dial digit 0; ***start timing.***	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard. After 13 seconds— SLV, PRI lamps lighted. R- lamp extinguished.
29	Operate PCRD key to TALK.	Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.
30	Restore TLK, PCRD keys to normal.	PRI, SLV, RS, OGT-CS lamps extinguished. High tone silenced.
31	Momentarily operate RL key.	All lamps extinguished.
32e	If second line link appearance is provided— Operate TLK key.	
33e	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
34e	Dial digit 0.	TS lamp lighted. R- lamp flashes at routine ringing rate.

STEP	ACTION	VERIFICATION
		30-ipm interrupted tone heard. After 13 seconds— SLV, PRI lamps lighted. R- lamp extinguished.
35e	Operate RCRD key to TALK.	Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.
36e	Operate PCRDA key to TALK.	
37e	Momentarily operate RPW key.	OGT-CS lamp extinguished. High tone silenced.
38e	Dial digit 0.	R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard. After 13 seconds— PRIA lamp lighted. R- lamp extinguished.
39e	Operate PCRDA key to HOLD.	Interrupted tone silenced. OGT-CS lamp lighted. High tone heard. PRI lamp extinguished.
40e	Operate PRCDA key to TALK.	OGT-CS lamp extinguished. High tone silenced. PRI lamp lighted.
41e	Momentarily operate RL key.	All lamps extinguished.
42	Restore all keys and switches not required in next test.	
43f	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
44f	At relay rack frame— Remove patching cords from T1, T2 jacks.	

M. Trunk Seizure, Release, and Supervision—Trunk Arranged for Non-PNID

22	At MTF— Operate NPNID, CNSL, TLK keys.	
23	Momentarily operate ST key.	PRI lamp lighted. OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.

STEP	ACTION	VERIFICATION
24	Operate PCRD key to TALK.	Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.
25	Restore TLK key. *Calling end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
26	Momentarily operate RL key.	All lamps extinguished.
27	Restore PCRD key.	
28	Operate TLK key.	
29	Repeat Steps 23, 24.	
30	Restore PCRD key. *Called end disconnect.*	OGT-CS lamp extinguished. High tone silenced.
31	Momentarily operate RL key.	All lamps extinguished.
32e	If second line link appearance is provided— Momentarily operate ST key.	PRI lamp lighted. OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.
33e	Operate PCRD key to TALK.	Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.
34e	Operate PCRDA key to TALK.	
35e	Momentarily operate RPW key.	OGT-CS lamp extinguished. High tone silenced.
36e	Momentarily operate PRW key.	PRIA lamp lighted. 30-ipm interrupted tone heard.
37e	Operate PCRDA key to HOLD.	OGT-CS lamp lighted. PRI lamp extinguished. Interrupted tone silenced. High tone heard.
38e	Operate PRCDA key to TALK.	PRI lamp lighted. OGT-CS lamp extinguished. High tone silenced.
39e	Momentarily operate RL key.	All lamps extinguished.
40	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
41f	If no further tests are to be performed— Remove patching cord form MON and MLPP MTG jacks.	
42f	At relay rack frame— Remove patching cords from T1, T2 jacks.	
N. Abandoned Call—Trunk Arranged for Non-PNID		
22	At MTF— Operate NPNID, CNSL, TLK keys.	
23	Momentarily operate ST key.	PRI lamp lighted. OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.
24	Restore TLK key. *Abandoned call.*	All lamps extinguished.
25	Restore all keys and switches not required in next test.	
26c	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
27c	At relay rack frame— Remove patching cords from T1, T2 jacks.	
O. Call to Console—Trunk Arranged for Non-PNID		
22	At MTF— Operate NPNID, TLK keys.	
23	Momentarily operate ST key.	OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.
24	At console— Assistant answers call.	At MTF— OGT-CS lamp lighted. Interrupted tone silenced. Talking path established between MTF and console.
25	Request assistant at console to release call.	At MTF— OGT-CS lamp extinguished. Talking path removed between MTF and console.
26	Momentarily operate RL key.	All lamps extinguished.
27	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
28c	If no further tests are to be performed— At relay rack frame— Remove patching cords from T1, T2 jacks.	
	PREEMPTION BY PRIORITY OUTGOING CALL	
	P. Routine Outgoing Call—Unanswered	
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. If AMA features are provided and ETS or LAMA-C not provided— IE, RN_, T2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Insert plug of handset into TM1 jack (MON-TALK switch in TALK position).	
32	Operate TM1, MTTA keys.	
33	Momentarily operate RL key.	
34	Select class of service and rate treatment having access to precedence trunk link appearance of trunk under test.	
35	Select trunk to be tested. *Precedence appearance.*	
36	Select 1XX digits as requir to route call to precedence appearance of t nk under test.	
37	Momentarily operate ST key.	3 seconds of preempt tone heard at handset in TM1 jack. E, AS, PK lamps extinguished. If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. ▶If CDTT key is operated— S1 lamp extinguished.◀

STEP	ACTION	VERIFICATION
38	Momentarily operate ANS key.	E, PK lamps lighted.
39	Restore MTTA key.	
40	Momentarily operate RL key.	All lamp extinguished.
41	Restore all keys and switches not required in next test.	
42f	If no further tests are to be performed— Remove plug of handset from TM1 jack.	

Q. Routine Outgoing Call—Answered

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. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— IE, RN, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Operate ANS key.	▶If CDTT key is operated— CS lamp lighted.◀ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— In approximately 1 second— AE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
32	Insert plug of handset into TM1 jack (MON-TALK switch in TALK position).	
33	Operate TM1 key.	High tone heard in handset at TM1 jack.
34	Operate MTTA key.	

STEP	ACTION	VERIFICATION
35	Momentarily operate RL key.	
36	Select class of service and rate treatment having access to precedence trunk link appearance of trunk under test.	
37	Select trunk to be tested. *Precedence appearance.*	
38	Select 1XX digits as required to route call to precedence appearance of trunk under test.	
39	Momentarily operate ST key.	3 seconds of preempt tone heard in TM1 jack. AS lamp extinguished. If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. If CDTT key is operated— S1, CS lamps extinguished.
40	Momentarily operate ANS key.	E, PK lamps lighted.
41	Restore MTTA key.	
42	Momentarily operate RL key.	All lamps extinguished.
43	Restore all keys and switches not required in next test.	
44f	If no further tests are to be performed— Remove plug of handset from TM1 jack.	

PREEMPTION BY PRIORITY INCOMING CALL

R. Routine Incoming Call

18	Request distant office to place a routine test call via LUNK that is dedicated to trunk under test. The test call should be directed to a permanent busy number in local office.	
19	Select MISC class of test.	
20	Momentarily operate ST key.	3 seconds of preempt tone heard at distant office and MTF. Test call released at distant end. Dial tone heard.
21	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
22	Restore all keys and switches not required in next test.	
S. Routine Outgoing CAll—Preempt for Reuse		
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. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— IE, RN, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Operate ANS key.	▶If CDTT key is operated— CS lamp lighted.◀ If ETS or LAMA-C provided— CS lamp lighted. High tone heard. If AMA features are provided and ETS or LAMA-C not provided— In approximately 1 second— AE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
32f	If trunk is arranged for PNID— Insert plug of handset into TNK jack (MON-TALK switch in MON position).	High tone silenced.
33	Operate MTTA, MNWK keys.	
34	Momentarily operate RPW key: ***start timing.***	If answer and disconnect supervision is provided— PK lamp momentarily lighted. In approximately 3 seconds— E lamp extinguished, lighted, then extinguished. AA lamp extinguished. ▶If CDTT key is operated— S1, CS lamps extinguished.◀ If ETS provided— FT, CS, S1 lamps extinguished.

STEP	ACTION	VERIFICATION
		If LAMA-C provided— CS, S1 lamps extinguished. If answer and disconnect supervision is provided— PK lamp lighted. If trunk is arranged for PNID and incoming register times for normal traffic— In 19 to 37 seconds— Overflow tone heard in handset TNK jack. If AMA features are provided and ETS, ◗CDT,◖ or LAMA-C not provided— DE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished. If trunk is arranged for PNID and incoming register times for overload trunk— In 4 to 8 seconds— Overflow tone heard in handset at TNK jack. If AMA features are provided and ETS or LAMA-C not provided— DE lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
35g	If trunk is arranged for non-PNID— Operate CNSL key.	PRI lamp lighted. If answer and disconnect supervision is provided— PK lamp extinguished.
36	Restore MTTA, CNSL, TLK keys.	PRI lamp extinguished. If trunk is arranged for PNID— Overflow tone silenced.
37	Momentarily operate RL key.	All lamps extinguished.
38	Operate TLK key.	
39	Repeat Steps 29 through 32f.	
40	Operate MTTA, MXWK keys.	
41	Repeat Steps 34 through 37.	
42	Restore all keys and switches not required in next test.	
43	Remove patching cord from MON and MLPP MTG jacks.	

STEP	ACTION	VERIFICATION
T. Routine Outgoing Call—Preempt for Nonreuse		
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. If AMA features are provided and ETS, ▶CDT,◀ or LAMA-C not provided— IE, RN_, T2/5, U2/5 lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
30	Momentarily operate ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated.
31	Momentarily operate NPW key.	▶If CDTT key is operated— S1 lamp extinguished.◀ If ETS provided— FT, S1 lamps extinguished. If LAMA-C provided— S1 lamp extinguished. AS, E lamps extinguished. If answer and disconnect supervision is provided— PK lamp extinguished.
32	Momentarily operate RL key.	All lamps extinguished.
33	Restore all keys and switches not required in next test.	
U. Priority Outgoing Call—Preempt for Reuse		
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 ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated. PK lamp lighted.

STEP	ACTION	VERIFICATION
31	Operate ANS key.	▶If CDTT key is operated— CS lamp lighted.◀ If ETS or LAMA-C provided— CS lamp lighted. PK lamp extinguished. High tone heard.
32f	If trunk is arranged for PNID— Insert plug of handset into TNK jack.	High tone silenced.
33	Operate MTTA key.	
34	Momentarily operate RPW; ***start timing.***	In approximately 3 seconds— E lamp extinguished, lighted, then extinguished. AS lamp extinguished. ▶If CDTT key is operated— S1, CS lamps extinguished.◀ If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. If trunk is arranged for PNID and incoming register times for normal traffic— In 19 to 37 seconds— Overflow tone heard in handset at TNK jacks. If trunk is arranged for PNID and incoming register times for overload traffic— In 4 to 8 seconds— Overflow tone heard in handset at TNK jack.
35g	If trunk is arranged for non-PNID— Operate CNSL key.	
36g	Momentarily operate RPW key.	PRI lamp lighted.
37	Restore MTTA, CNSL, TLK keys.	PRI lamp extinguished. If trunk is arranged for PNID— Overflow tone silenced.
38	Momentarily operate RL key.	All lamps extinguished.
39	Restore all keys and switches not required in next test.	
40h	If no further tests are to be performed— Remove plug of handset from TNK jack.	
41h	Remove patching cord from MON and MLPP MGT jacks.	

STEP	ACTION	VERIFICATION
V. Priority Outgoing Call—Preempt for Nonreuse		
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 ANS key. *Wink or delay dial.*	If ETS or LAMA-C provided ▶or CDTT key operated—◀ CS lamp lighted while ANS key operated. PK lamp lighted.
31	Operate ANS key.	▶If CDTT key is operated— CS lamp lighted.◀ If ETS or LAMA-C provided— CS lamp lighted. PK lamp extinguished. High tone heard.
32	Momentarily operate NPW key.	▶If CDTT key is operated— S1, CS lamps extinguished.◀ If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. AS, E lamps extinguished. High tone silenced.
33	Momentarily operate RL key.	All lamps extinguished.
34	Restore all keys and switches not required in next test.	
W. Routine PNID, Routine Non-PNID, Priority PNID Incoming Calls—Preempt for Reuse		
25	Select A, B, C digits for local completion.	
26	Operate LS key.	
27e	If trunk is arranged for non-PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
28f	If trunk is arranged for PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted.

STEP	ACTION	VERIFICATION
29f	Dial digit 4. *Routine priority digit.*	TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
30	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Ringing tone silenced. High tone heard.
31	Restore LS key.	
32	Momentarily operate RPW key; ***start timing.***	In approximately 3 seconds— TS lamp extinguished. High tone silenced. If trunk is arranged for PNID and incoming register times for normal traffic— In 19 to 37 seconds— Overflow tone heard. If trunk is arranged for PNID and incoming register times for overload traffic— In 4 to 8 seconds— Overflow tone heard.
33e	If trunk is arranged for non-PNID— Operate CNSL key.	
34e	Momentarily operate RPW key.	PRI lamp lighted.
35	Momentarily operate RL key.	All lamps extinguished. If trunk is arranged for PNID— Overflow tone silenced.
36f	If trunk is arranged for PNID— Restore ANS key.	
37f	Operate LS key.	
38f	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
39f	Dial digit 0. *Priority 0.*	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard.
40f	Operate ANS key.	0GT-CS lamp lighted. R- lamp extinguished. Interrupted tone silenced. High tone heard.
41f	Restore LS key.	

STEP	ACTION	VERIFICATION
42f	Momentarily operate RPW key; ***start timing.***	In approximately 3 seconds— TS lamp extinguished. High tone silenced. OGT-CS lamp extinguished, lighted, then extinguished. If incoming register times for normal traffic— In 19 to 37 second— Overflow tone heard. If incoming register times for overload traffic— In 4 to 8 seconds— Overflow tone heard.
43f	Momentarily operate RL key.	All lamps extinguished. Overflow tone silenced.
44	Restore all keys and switches not required in next test.	
45g	If no further tests are to be performed— Remove patching cords from MON and MLPP MTG jacks.	
46g	At relay rack frame— Remove patching cords from T1, T2 jacks.	
X. Routine PNID, Routine Non-PNID, Priority PNID Incoming Calls—Preempt for Nonreuse		
25	Select A, B, C digits for local completion.	
26	Operate LS key.	
27e	If trunk is arranged for non-PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted. TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
28f	If trunk is arranged for PNID— Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
29f	Dial digit 4. *Routine priority.*	TS lamp lighted. R- lamp flashes. Ringing tone heard in unison with R- lamp flashes.
30	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Ringing tone silenced. High tone heard.
31	Restore LS key.	

STEP	ACTION	VERIFICATION
32	Momentarily operate NPW key.	TS, OGT-CS lamps extinguished. High tone silenced.
33	Momentarily operate RL key.	All lamps extinguished.
34f	If trunk is arranged for PNID— Restore ANS key.	
35f	Operate LS key.	
36f	Momentarily operate ST key.	OGT-CS lamp momentarily lighted.
37f	Dial digit 0. *Priority 0.*	TS lamp lighted. R- lamp flashes at routine ringing rate. 30-ipm interrupted tone heard.
38f	Operate ANS key.	OGT-CS lamp lighted. R- lamp extinguished. Ringing tone silenced. High tone heard.
39f	Restore LS key.	
40f	Momentarily operate NPW key.	TS, OGT-CS lamps extinguished. High tone silenced.
41f	Momentarily operate RL key.	All lamps extinguished.
42	Restore all keys and switches not required in next test.	
43g	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
44g	At relay rack frame— Remove patching cords from T1, T2 jacks.	

Y. Priority Non-PNID Incoming Call—Preempt for Reuse

22	At MTF— Operate NPNID, CNSL, TLK keys.	
23	Momentarily operate ST key.	PRI lamp lighted. OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.
24	Operate PCRD key to TALK.	PRI lamp extinguished. Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.

STEP	ACTION	VERIFICATION
25	Momentarily operate RPW key.	OGT-CS lamp extinguished. High tone silenced.
26	Restore PCRD key.	
27	Momentarily operate RPW key.	PRI lamp lighted.
28	Operate PCRD key to TALK.	OGT-CS lamp lighted. PRI lamp extinguished. High tone heard.
29	Momentarily operate RL key.	All lamps extinguished. High tone silenced.
30	Restore all keys and switches not required in next test.	
31c	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
32c	At relay rack frame— Remove patching cords from T1, T2 jacks.	

Z. Priority Non-PNID Incoming Call—Preempt for Nonreuse

22	At MTF— Operate NPNID, CNSL, TLK keys.	
23	Momentarily operate ST key.	PRI lamp lighted. OGT-CS lamp momentarily lighted. 30-ipm interrupted tone heard.
24	Operate PCRD key to TALK.	PRI lamp extinguished. Interrupted tone silenced. OGT-CS lamp lighted. High tone heard.
25	Momentarily operate NPW key.	OGT-CS lamp extinguished. High tone silenced.
26	Restore all keys and switches not required in next test.	
27c	If no further tests are to be performed— Remove patching cord from MON and MLPP MTG jacks.	
28c	At relay rack frame— Remove patching cords from T1, T2 jacks.	

STEP	ACTION	VERIFICATION
MISCELLANEOUS TESTS		
AA.	**Trunk Busy—Routine Appearance**	
29	Insert make-busy plug into MB- jack associated with trunk under test.	
30	Momentarily operate ST key.	TB lamp lighted.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore FS, TS keys.	
33	Operate NTFS, NTTS keys.	
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, E lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
35	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
36	Remove make-busy plug from MB- jack.	If ETS provided— FT lamp extinguished.
37	Restore all keys and switches not required in next test.	
AB.	**Trunk Busy—Precedence Appearance**	
29	Insert make-busy plug into MB- jack associated with trunk under test.	
30	Momentarily operate ST key.	TB lamp lighted.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore FS, TS keys.	
33	Operate NTFS, NTTS keys.	
34	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, E lamps lighted. If answer and disconnect supervision is provided— PK lamp lighted.
35	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
36	Remove make-busy plug from MB- jack.	If ETS provided— FT lamp extinguished.
37	Restore all keys and switches not required in next test.	

AC. Glare Detection

29	Operate GLMN, ANS keys.	
30	Momentarily operate ST key. *Immediate glare condition.*	RBTL1, BTOF, RA-, GL lamps lighted.
31	Momentarily operate RL key.	All lamps extinguished.
32	Restore ANS key.	
33	Momentarily operate ST key. *Minimum glare condition.* ***Note:*** If glare timer in MTF operates before the marker selects a channel, verification will appear as in Step 30. Repeat Steps 31 and 33 until verification is correct.	♦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.
34	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. Overflow tone silenced.
35	Momentarily operate RL key.	All lamps extinguished.
36	Restore GLMN key.	

STEP	ACTION	VERIFICATION
37	Operate TLK, GLMX keys.	
38	Momentarily operate ST key. *Maximum glare condition.*	▶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.
39	Within 4 seconds— 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.
40	Momentarily operate RL key.	All lamps extinguished.
41	Restore all keys and switches not required in next test.	

AD. False-Idle and False-Busy Conditions—Routine Appearance ▶(ETS not Provided)◀

1	At relay rack frame— Insert 258-type plug into T2 jack of trunk under test.	
2	Connect power to 1A fault locator.	
3	At 1A fault locator— Set W-T switch to W.	
4	Set HR-LRT switch to LRT.	Whistle heard.
5	Connect testing cord from WT jack of 1A fault locator to terminal 55 on terminal strip B of trunk under test.	
6	At MTF— Insert make-busy plugs into MB- jacks associated with all trunks using same route on same trunk link frame as trunk under test.	
7	Insert make-busy plug into MB- jack associated with trunk under test.	At relay rack frame— Whistle heard. B relay on trunk under test operated.

STEP	ACTION	VERIFICATION
8	While trunk is idle— Block nonoperated E, BYP relays.	
9	Connect ground to U- winding of ON relay.	
10	Momentarily restore B relay.	Whistle still heard while B relay is restored.
11	Remove ground from ON relay.	
12	Remove make-busy plugs placed in Step 6.	Whistle not heard.
13	Remove connection from terminal 55 and connect to terminal 15 of terminal strip B.	
14	Connect HRG (high resistance ground) terminal to terminal 45 of terminal strip B on trunk under test.	Whistle heard.
15	Momentarily restore B relay.	Whistle not heard while B relay is restored.
16	Connect ground to U- winding of ON relay.	
17	Momentarily operate B relay.	Whistle still heard while B relay is restored.
18	Remove ground from ON relay.	
19	Remove test connections from terminals 15 and 45 of terminal strip B.	
20	Remove power from 1A fault locator.	
21	Remove make-busy plug placed in Step 7.	
22	Remove plug from T2 jack.	

AE. False-Idle and False-Busy Conditions—Precedence Appearance ▶(ETS not Provided)◀

1	At relay rack frame— Insert 258-type plug into T2 jack of trunk under test.	
2	Connect power to 1A fault locator.	
3	At 1A fault locator— Set W-T switch to W.	
4	Set HR-LRT switch to LRT.	Whistle heard.
5	Connect testing cord from WT jack of 1A fault locator to terminal 55 on terminal strip A of trunk under test.	

STEP	ACTION	VERIFICATION
6	At MTF— Insert make-busy plugs into MB- jacks associated with all trunks using same route on same trunk link frame as trunk under test.	
7	Insert make-busy plug into MB- jack associated with trunk under test.	At relay rack frame— Whistle heard. B relay on trunk under test operated.
8	Momentarily restore B relay.	Whistle not heard while B relay is restored.
9	Connect ground to 1U- winding of BYP relay.	
10	Momentarily restore B relay.	Whistle still heard while B relay is restored.
11	Remove ground from BYP relay.	
12	Remove make-busy plugs placed in Step 6.	Whistle not heard.
13	Remove connections from terminal 55 and connect to terminal 15 of terminal strip A.	
14	Connect HRG (high resistance ground) terminal to terminal 45 on trunk under test.	Whistle heard.
15	Momentarily restore B relay.	Whistle not heard while B relay is restored.
16	Connect ground to U- winding of E relay.	
17	Momentarily restore B relay.	Whistle still heard while B relay is restored.
18	Remove ground from E relay.	
19	Connect ground to U- winding of MB relay.	
20	Momentarily restore B relay.	Whistle not heard while B relay is restored.
21	Remove ground from MB relay.	
22	Connect ground to 1U- winding of BYP relay.	
23	Momentarily restore B relay.	Whistle still heard while B relay is restored.
24	Remove test connections from terminals 15 and 45 of terminal strip A.	
25	Remove power from 1A fault locator.	
26	Remove make-busy plug placed in Step 7.	
27	Remove plug from T2 jack.	

STEP	ACTION	VERIFICATION
AF.	**BYP Relay Operate and Release Paths**	
1	At MTF— Insert make-busy plug into MB- jack associated with trunk under test.	
2	At relay rack frame— Insert 258-type plug into T2 jack on trunk under test.	
3	On trunk under test— Insulate 11M of BYP relay.	
4	Insulate 1B of TO relay.	
5	Block nonoperated IN relay.	
6	Connect ground to U- winding of ON relay.	
7	Connect ground to 1L- winding of PTA relay.	BYP relay operated.
8	Momentarily remove ground from U- winding of ON relay.	BYP relay momentarily released.
9	Remove ground from PTA relay.	
10	Connect ground to U- winding of EA relay.	BYP relay operated.
11	Remove ground from EA relay.	BYP relay released.
12	Connect battery to L- winding of CH relay.	BYP relay operated.
13	Momentarily connect ground to U- winding of EA relay.	BYP relay momentarily released.
14	Remove battery from CH relay.	BYP relay released.
15	Connect ground to U- winding of IN1 relay.	BYP relay operated.
16	Momentarily connect ground to U- winding of EA relay.	BYP relay momentarily released.
17	Remove ground from IN1 relay.	BYP relay released.
18	Remove ground from ON relay.	
19	Connect ground to U- winding of SD relay.	BYP relay operated.
20	Remove ground from SD relay.	BYP relay released.
21	Connect ground to U- winding of CY relay.	BYP relay operated.

STEP	ACTION	VERIFICATION
22	Remove ground from CY relay.	BYP relay released.
23	Connect battery to L- winding of G1 relay.	BYP relay operated.
24	Remove battery from G1 relay.	BYP relay released.
25	Remove insulator from TO relay.	BYP relay operated.
26a	If trunk is arranged for PNID— Insulate 2B of P4 relay.	
27	Connect grund to U- winding of RD relay.	BYP relay released.
28	Remove ground from RD relay.	BYP relay operated.
29a	If trunk is arranged for PNID— Remove insulator from P4 relay.	
30a	Insulate 3B of RD relay.	
31a	Connect ground to U- winding of P4 relay.	BYP relay released.
32a	Remove ground from P4 relay.	BYP relay operated.
33a	Remove insulator from RD relay.	
34	Connect ground to U- winding of TO relay.	BYP relay released.
35	Remove ground from TO relay.	BYP relay operated.
36	Insulate 1B of TO relay.	BYP relay released.
37	Connect ground to U- winding of EA relay.	BYP relay operated.
38	Connect battery to L- winding of CH relay.	BYP relay released.
39	Remove battery from CH relay.	BYP relay operated.
40	Connect ground to U- winding of IN1 relay.	BYP relay released.
41	Remove ground from IN1 relay.	BYP relay operated.
42	Remove ground from ON, EA relays.	BYP relay released.
43	Remove blocking tool from IN relay.	
44	Remove insulators from BYP and TO relays.	
45	Remove make-busy plug from MB- jack.	
46	Remove plug from T2 jack.	