

MASTER TEST FRAME CONNECTOR SD-27718-01  
PREFERENCE AND LOCKOUT CHAINS

TESTS

NO. 5 CROSSBAR OFFICES

1. GENERAL	PAGE
1.01 This section describes a method for testing the master test frame connector SD-27718-01 to verify continuity of preference and lockout chains without the use of the master test frame.	
1.02 This section is reissued for the following reasons. Since this reissue is a general revision, no revision arrows have been used to denote significant changes. This reissue does not affect Equipment Test Lists.	
(a) To revise all Tests to provide Test Tables to simplify testing procedures and reduce overall testing time.	
(b) To revise Test A to add testing procedures of preference relays in the operational chain for offices arranged with 2A line concentrators or route translators.	
(c) To revise Test B to add a Test procedure of preference relays in the functional chain for offices arranged with route translators.	
(d) To revise Test C to amend testing procedures for offices arranged for LAMA or combined ANI and CAMA features equipped with paper tape or magnetic tape recorders.	
1.03 The tests covered are:	
	PAGE
A. <i>OP Chain</i> : This test provides a method of testing the operational chain through all provided preference relays.	3
B. <i>CIA Chain</i> : This test provides a method of testing the functional chain through all auxiliary preference relays and all preference relays provided.	4
C. <i>CI Chain</i> : This test provides a method of testing the functional chain through all provided preference relays for LAMA and/or CAMA and ANI.	4
D. <i>SP-OP Chain</i> : This test provides a method of testing the operational chain through all provided preference relays for no-test connector access.	5
E. <i>SP-SPC Chain</i> : This test provides a method of testing the functional chain through all provided preference relays for no-test connector access.	6
F. <i>MKT Chain</i> : This test provides a method of testing the marker selection relay lockout chain.	6
G. <i>PTT Chain</i> : This test provides a method of testing the pretranslator selection relay lockout chain.	6
H. <i>TVT Chain</i> : This test provides a method of testing the transverter selection relay lockout chain.	6
I. <i>MTL, TTL Chains</i> : This test provides a method of testing the auxiliary test preference and lockout chains of the MTL and TTL relays.	7

NOTICE

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**1.04** All tests should be made during periods of light traffic because the master test frame connector (MTFC) will be removed from service. Should a request be made for the trouble recorder while performing this test, the minor and/or major alarm is sounded and the TRR and DL lamps are lighted. The alarm may be silenced and the lamps extinguished by the momentary operation of the TRR-AR key at the master test frame (MTF).

**Note 1:** The trouble recorder request alarm may also be silenced on a remote control basis. Using a 3P3D cord, the TRR-AR jack (if provided) is patched to one of the RC-AR-jacks at the MTF. The alarm can then be silenced by momentarily operating the red (RLS) button of a 32A test set plugged into the SP jack at the associated equipment frame. The alarm can also be silenced by momentarily inserting a 349A plug into the SP jack.

**Note 2:** In offices equipped with the alarm sending circuit, an optional MAR (master alarm release) key may be provided at the MTF. When the MAR key is operated momentarily, it provides for simultaneously releasing all locked-in alarms, including the trouble recorder request audible and visual alarms.

**Note 3:** An optional TRR-TAR (trouble recorder request-timed automatic release) key may be furnished in addition to the TRR-AR key at the MTF. When the TRR-TAR key is operated, it provides for automatic silencing of the trouble recorder request alarms and for extinguishing the TRR lamp after a short interval.

**1.05** While all tests covered in this section are in progress, no other tests should be made from the master test control circuit, the automatic monitor, register, and sender test circuit, the automatic progression trunk test circuit, the line insulation test circuit, the trunk test register circuit, the automatic range extender test circuit, the remote office test line or remote office test line register, or the line verification test circuit.

**Note:** When remote control from the connecting test center is provided for the line insulation test circuit, notify the test center to postpone start of line insulation testing until this test has been completed. Also, notify distant location having access to the

remote office test line, remote office test line register, or the trunk test register circuit that a local test is in progress using these circuits.

**1.06** The test procedures covered in this section assume that all optional equipment is furnished. If any optional equipment is not provided, proceed to next equipped relay in order of preference. For example, in order to test the MTP relay, the TTR2 relay is blocked operated. If the TTR2 relay is not provided, the TTR relay must be blocked operated in order to test the MTP relay.

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

**1.08 Lettered Steps:** A letter a, b, c, etc, added to a step number in Part 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.

## 2. APPARATUS

### All Tests

**2.01** 32A (make-busy) plug.

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

### Tests A, D

**2.03** Two testing cords, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord), one equipped with two KS-6278 connecting clips and one equipped with one KS-6278 connecting clip and one 624A (test connector) tool (for connecting resistance battery to winding of wire-spring-type relays).

**2.04** 18AG resistor.

**Tests B, C, E, F, G, H**

2.05 67C test set or equivalent, equipped with one KS-6278 connecting clip (for checking the presence or absence of battery or ground).

KS-6278 connecting clip, one 639A (relay contact connector) tool, and one 651D (relay contact connector holder) tool (for connecting to relay springs of wire-spring-type relays) or one KS-6278 connecting clip and one 624A (test connector) tool (for connecting battery to windings of wire-spring-type relays).

**Tests C, D**

2.06 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one

**3. PREPARATION**

STEP	ACTION	VERIFICATION
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**All Tests**

**Caution:** *Should a trouble condition develop that requires the use of the trouble recorder at any step in the progress of these tests, immediately remove all relay blocking tools, insulators, and test connections. Silence the alarm by operating the TRR-AR key at the MTF and restore the trouble recorder to service by removing the make-busy plug from the TRMB jack at the MTF.*

1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Insert make-busy plug into TRMB jack.	TRMB lamp lighted.

**4. METHOD**

STEP	ACTION	VERIFICATION
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**A. OP Chain**

**Note:** Refer to paragraphs 1.04, 1.05, 1.06, and 1.07.

4	At MTFC— Insulate 5B of LTP1 relay.	
5	Perform tests in accordance with Table A, Tests 1 through 134.	
6	Remove insulator from LTP1 relay.	

SECTION 218-216-502

STEP	ACTION	VERIFICATION
7	At MTF— Remove make-busy plug from TRMB jack.	
<b>B. CIA Chain</b>		
	<i>Note:</i> Refer to paragraphs 1.04, 1.05, 1.06, and 1.07.	
4	At MTFC— Insulate 7B of CIT relay.	
5	Perform tests in accordance with Table B, Tests 1 through 99.	
6	Remove insulator from 7B of CIT relay.	
7	At MTF— Remove make-busy plug from TRMB jack.	
<b>C. CI Chain</b>		
	<i>Note:</i> Refer to paragraphs 1.04, 1.05, 1.06, 1.07, and 1.08.	
4	At MTFC— Insulate 5B of LTP1 relay.	
5	Block nonoperated LTP1, TTP1, RCR-EMG, all RCR_ relays as provided.	
6	Using 893 cord, connect ground to 9F of LTP relay.	
7a	If office is arranged for ANI only— Perform tests in accordance with Table B, Tests 100 through 111.	
8a	Remove insulator from 5B of LTP1 relay.	
9a	Remove test connection from 9F of LTP relay.	
10a	Remove blocking tools from LTP1, TTP1, RCR-EMG, all RCR_ relays are provided.	
11a	At MTF— Remove make-busy plug from TRMB jack.	
12b	If office is arranged for LAMA or combined ANI and CAMA features with paper tape recorders— Insulate 9M of PCN relay.	

STEP	ACTION	VERIFICATION
13b	Perform tests in accordance with Table B, Tests 100 through 118.	
14b	Remove insulators from 5B of LTP1, and 9M of PCN relays.	
15b	Remove test connection from 9F of LTP relay.	
16b	Remove blocking tools from LTP1, TTP1, RCR-EMG, all RCR_ relays are provided.	
17b	At MTF— Remove make-busy plug from TRMB relay.	
18c	If office is arranged for LAMA or combined ANI and CAMA features with magnetic tape recorders— Perform tests in accordance with Table B, Tests 100 through 111 and 119 through 125.	
19c	Remove insulator from 5B of LTP1 relay.	
20c	Remove test connection from 9F of LTP relay.	
21c	Remove blocking tools from LTP1, TTP1, RCR-EMG, all RCR_ relays as provided.	
22c	At MTF— Remove make-busy plug from TRMB jack.	

#### D. SP-OP Chain

**Caution: The following test procedures may interfere with the completion of no-test calls from the switchboard and the local test desk. Therefore, complete the test as rapidly as possible.**

4	At MTFC— Insulate 1M of SP0, SP2, and SP4 relays.	
5	Insulate 10M of SP1 relay and 9M of SP3 relay.	
6	Perform tests in accordance with Table A, Tests 135 through 154.	
7	Remove insulators from SP0, SP1, SP2, SP3, and SP4 relays.	
8	At MTF— Remove make-busy plug from TRMB jack.	

STEP	ACTION	VERIFICATION
<b>E. SP-SPC Chain</b>		
<i>Caution: The following test procedures may interfere with the completion of no-test calls from the switchboard and the local test desk. Therefore, complete the test as rapidly as possible.</i>		
4	At MTFC— Perform tests in accordance with Table B, Tests 126 through 135.	
5	At MTF— Remove make-busy plug from TRMB jack.	
<b>F. MKT Chain</b>		
4	At MTFC— Block nonoperated CIT and CIC relays.	
5	Perform tests in accordance with Table A, Tests 155 through 174.	
6	Remove blocking tools from CIC, CIT, and MTL relays.	
7	At MTF— Remove make-busy plug from TRMB jack.	
<b>G. PTT Chain</b>		
4	At MTFC— Block nonoperated CIC and CIT relays.	
5	Perform tests in accordance with Table A, Tests 175 through 187.	
6	Remove blocking tools from CIC, CIT, and MTL relays.	
7	At MTF— Remove make-busy plug from TRMB jack.	
<b>H. TVT Chain</b>		
4	At MTFC— Block nonoperated CIC and CIT relays.	
5	Perform tests in accordance with Table A, Tests 188 through 198.	

STEP	ACTION	VERIFICATION
6	Remove blocking tools from CIC, CIT, and MTL relays.	
7	At MTF— Remove make-busy plug from TRMB jack.	
<b>I. MTL, TTL Chains</b>		
4	Block nonoperated CIC and CIT relays.	
5	Perform tests in accordance with Table A, Tests 199 through 207.	
6	Remove blocking tools from CIC and CIT relays.	
7	At MTF— Remove blocking tools from TRMB jack.	



TABLE A

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS
A	Automatic Call Distributor Test Connector	1	ACD	1, YW	ACDMTC	MON	2L of ACD						ACD
		2						MON				ACD	
		3							2L of ACD				ACD
		4									MON		
	Automatic Monitor, Register, and Sender Test Circuit	5	MON	2, SO, SV	MTC	MTP	2U of MON						MON
		6						MTP				MON	
		7							2U of MON				MON
		8									MTP		
	Master Test Control (Marker Test Pref)	9	MTP	1	MTC	TTR2	2U of MTP						MTP
		10						TTR2				MTP	
		11							2U of MTP				MTP
		12									TTR2		
	Second Trunk Test Register Circuit	13	TTR2	1, ZO	MTC	TTR	2U of TTR2						TTR2
		14						TTR				TTR2	
		15							2U of TTR2				TTR2
		16									TTR		
	Trunk Test Register Circuit	17	TTR	1	MTC	FSP	2U of TTR						TTR
		18						FSP				TTR	
		19							2U of TTR				TTR
		20									FSP		
	Sender Test Circuit	21	FSP	1	MTC	LVP	2L of FSP						FSP
		22						LVP				FSP	
		23							2L of FSP				FSP
		24									LVP		
	Line Verification-Marker and/or Computer Line Verification Access Circuit	25	LVP	1	MTC	REP2	2U of LVP						LVP
		26						REP2				LVP	
		27							2U of LVP				LVP
		28									REP2		



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION		
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS	
A (Contd)	Automatic Range Extension Test Circuit	29	REP2	1, ZF	MTC	REP	2U of REP2						REP2	
		30						REP				REP2		
		31							2U of REP2				REP2	
		32									REP			
		33	REP	1, ZF	MTC	RTP	2U of REP							REP
		34							RTP				REP	
		35								2U of REP				REP
		36										RTP		
	Remote Office Test Line/Remote Office Test Register/Mini-ROTL Interface Ckt	37	RTP	28, WU/WV	MTC	ATP	2U of RTP							RTP
		38							ATP				RTP	
		39								2U of RTP				RTP
		40										ATP		
	Automatic Progression Trunk Test Ckt	41	ATP	1	MTC	LITV	2U of ATP							ATP
		42							LITV				ATP	
		43								2U of ATP				ATP
		44										LITV		
	Line Insulation Test Circuit (Directory Number Printout)	45	LITV	35, XT	MTC	LIT	2U of LITV							LITV
		46							LIT				LITV	
		47								2U of LITV				LITV
		48										LIT		
	Line Insulation Test Circuit (No Directory Number Printout)	49	LIT	1	MTC	SSP	2L of LIT							LIT
		50							SSP				LIT	
		51								2L of LIT				LIT
		52										SSP		
	Stuck Sender Trunk Identifier	53	SSP	1, ZS	MTC	CTR of last 2A CONC	2U of SSP							SSP
		54										CTR of last 2A CONC		SSP



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS
A (Contd)	Stuck Sender Trunk Identifier (Contd)	55							2U of SSP				SSP
		56									CTR of last 2A CONC		
	2A Line Concentrator Circuit	57	CTR	W	RLY RACK	First MPR <sub>1</sub>	2L of last CTR						CTR
		58						First MPR <sub>1</sub>				CTR	
		59							2L of last CTR				CTR
		60									First MPR <sub>1</sub>		
	Repeat Tests 57 Through 60 For Each Remaining 2A Line Concentrator	61											
	Completing Marker Circuit	62	MPR <sub>1</sub>	6	MTC, 2S MTC	First MPR <sub>1</sub>	2U of first MPR <sub>1</sub>						MPR <sub>1</sub>
		63						First MPR <sub>1</sub>					MPR <sub>1</sub>
		64							2U of first MPR <sub>1</sub>				MPR <sub>1</sub>
		65									First MPR <sub>1</sub>		
	Repeat Tests 62 Through 65 For Each Remaining Completing Marker	66											
	Dial Tone Marker Circuit	67	MPR <sub>1</sub>	8	MTC, 2S MTC	RTP0	2U of first MPR <sub>1</sub>						MPR <sub>1</sub>
		68						RTP0					MPR <sub>1</sub>
		69							2U of first MPR <sub>1</sub>				MPR <sub>1</sub>
		70									RTP0		
	Repeat Tests 67 Through 70 For Each Remaining Dial Tone Marker	71											



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION		
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS	
A (Contd)	Route Translator Circuit	72	RTP0	24	MTC, 2SMTC	RTP1	2L of RTP0						RTP0	
		73						RTP1				RTP0		
		74							2L of RTP0				RTP0	
		75									RTP1			
		76	RTP1	24	MTC, 2SMTC	PTP	2U of RTP1							RTP1
		77							PTP				RTP1	
		78								2U of RTP1				RTP1
		79										PTP		
	Master Test Control (Pretranslator Test Preference)	80	PTP	10/29	MTC, 2SMTC	First PPR_	2U of PTP/ 2L of PTP							PTP
		81						First PPR_						PTP
		82							2U of PTP/ 2L of PTP					PTP
		83									First PPR_			
	Pretranslator/IDDD Pretranslator/IR Pretranslator	84	PPR	10/30	MTC/IDDD PRT/RLY RACK	RPR-EMG	2L of first PPR_							PPR_
		85						RPR-EMG						PPR_
86								2L of first PPR_					PPR_	
87										RPR-EMG				
Repeat Tests 84 Through 87 For Each Remaining Pretranslator	88													
Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Paper Tape Recorders)	89	PCN	18	MTC	TPE	2U of PCN							PCN	
	90						TPE					PCN		
	91							2U of PCN					PCN	
	92									TPE				
	93	TPE	18	MTC	TPO	2U of TPE							TPE	
	94							TPO					TPE	



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION		
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS	
A (Contd)	Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Paper Tape Recorders) (Contd)	95							2U of TPE				TPE	
		96								TPO				
		97	TPO	18	MTC	RPR-EMG	2U of TPO							TPO
		98						RPR-EMG				TPO		
		99							2U of TPO					TPO
		100									RPR-EMG			
	Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Magnetic Tape Recorders)	101	MAGT	25	MTG	MPS	2L of MAGT							MAGT
		102						MPS				MAGT		
		103							2L of MAGT					MAGT
		104									MPS			
		105	MPS	25	MTC	MPB	2U of MPS							MPS
		106						MPB				MPS		
		107							2U of MPS					MPS
		108									MPB			
		109	MPB	25	MTC	RPR-EMG	2U of MPB							MPB
		110						RPR-EMG				MPB		
		111							2U of MPB					MPB
		112									RPR-EMG			
	AMA Recorder-Emergency (LAMA/CAMA)	113	RPR-EMG	18/25	MTC	First RPR_	2U of RPR-EMG							RPR-EMG
		114						First RPR_				RPR-EMG		
115								2U of RPR_					RPR-EMG	
116										First RPR_				
AMA Recorder-Regular (LAMA/CAMA)	117	RPR_	20/32	MTC	TTP	2U of first RPR_							RPR_	
	118						TTP				RPR_			
	119							2U of first RPR_					RPR_	
	120									TTP				

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TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION		
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS	
A (Contd)	Repeat Tests 117 Through 120 For Each Remaining AMA Recorder	121												
		122	TTP	1	MTC	LTP	2L of TTP						TTP	
		123						LTP					TTP	
		Master Test Control (Transverter Test Preference)	124						2L of TTP				TTP	
			125							LTP				
			126	LTP	1	MTC	First TVP_	2U of LTP					LTP	
		Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	127					First TVP_					LTP	
			128						2U of LTP				LTP	
			129								First TVP_			
		Transverter Circuit (LAMA/CAMA/ANI)	130	TVP_	1	MTC	Last TVP_	2U of first TVP_						TVP_
			131						Last TVP_					TVP_
			132							2U of first TVP_				TVP_
			133									Last TVP_		
		Repeat Tests 130 Through 133 For Each Remaining Transverter	134											
D	No-Test Connector Access Special Preference	135	SP0	1	MTC		2L of SP0						SP0	
		136							2L of SP0				SP0	
		137	SP1	1	MTC	SP0								
		138						2U of SP1					SP1	
		139									SP0	SP1		
		140								2U of SP1				
		141	SP2	1	MTC	SP1								
		142						2L of SP2						SP2
		143								SP1	SP2			

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TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION		
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS	
D (Contd)	No-Test Connector Access Special Preference (Contd)	144				SP1								
		145								SP3			SP2	
		146									SP1	SP2		
		147							2L of SP2				SP2	
		148	SP3	1	MTC		2U of SP3						SP3	
		149								SP0				
		150							2U of SP3				SP3	
		151	SP4	1, ZF	MTC		SP3							
		152						2L of SP4						SP4
		153										SP3	SP4	
		154								2L of SP4				SP4
F	Master Test Control (Completing Marker Connector Controller)	155	MKT0	6	MTC	MTL								
		156								MKT0		MKT0		
		157						MTL					MKT0	
		158	MKT1	6	MTC					MKT1		MKT1		
		159								MKT0		MKT0	MKT1	
		160						MTL					MKT0	
		161	MKT_	6, ZU	MTC					Next MKT_				
		162								Prec MKT_		Prec MKT_	Next MKT_	
		163						MTL					Prec MKT_	
		Repeat Tests 161 Through 163 For Each Remaining Completing Marker	164											
	Master Test Control (Dial Tone Marker Connector Controller)	165	MKT10	8	MTC	MTL								
166									MKT10		MKT10			
167							MTL					MKT10		
168									MKT11		MKT11			



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS
F (Contd)	Master Test Control (Dial Tone Marker Connector Controller) (Contd)	169								MKT10		MKT10	MKT11
		170						MTL					MKT10
		171	MKT1_	8, ZU	MTC					Next MKT1_		Next MKT1_	
		172								Prec MKT1_		Prec MKT1_	Next MKT1_
		173							MTL				Prec MKT1_
	Repeat Tests 171 Through 173 For Each Remaining Dial Tone Marker	174											
G	Master Test Control (Pretranslator Connector Controller)	175	PTT0	10/29, 30	MTC	PTP1							
		176								PTT0		PTT0	
		177						PTP1					PTT0
		178	PTT1	10/29, 30	MTC					PTT1		PTT1	
		179								PTT0		PTT0	PTT1
		180						PTP1					PTT0
		181	PTT2	10/29, 30	MTC					PTT2		PTT2	
		182								PTT1		PTT1	PTT2
		183						PTP1					PTT1
		184	PTT_	10/29, 30	MTC					Next PTT_		Next PTT_	
		185								Prec PTT_		Prec PTT_	Next PTT_
		186							PTP1				Prec PTT_
	Repeat Tests 184 Through 186 For Each Remaining Pretranslator	187											
H	Master Test Control (Transverter Connector Controller)	188	TVT0	12	MTC								
		189				TTL							
		190								TVT0		TVT0	
		191						TTL					TVT0
		192	TVT1	12	MTC					TVT1		TVT1	



TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME							RLY OPR	RLY RLS
H (Contd)	Master Test Control (Transverter Connector Controller) (Contd)	193								TVT0		TVT0	TVT1
		194						TTL					TVT0
		195	TVT_	12	MTC					Next TVT_		Next TVT_	
		196								Prec TVT_		Prec TVT_	Next TVT_
		197							TTL				Prec TVT_
	198	Repeat Tests 195 Through 197 For Each Remaining Transverter											
I	Master Test Control (Marker Test Pref)	199	MTP1	1	MTC					MTP1		*MTL	
	Remote Office Test Line/Remote Office Test Register/Mini- ROTL Interface Ckt	200	RTP2	28	MTC					RTP2		*MTL	
	Automatic Progression Trunk Test Ckt	201	ATP1	1	MTC					ATP1		*MTL	
	Automatic Range Extension Test Circuit	202	REP1	1, ZF	MTC					REP1		*MTL	
	Second Trunk Test Register Circuit	203	TTR3	1, ZO	MTC					TTR3		*MTL	
	Trunk Test Register Circuit	204	TTR1	1	MTC					TTR1		*MTL	
	Line Verification- Marker and/or Computer Line Verification Access Circuit	205	LVP1	1	MTC					LVP1		*MTL	
Master Test Control (Transverter Test Preference)	206	TTP1	1	MTC					TTP1		*MTL		
Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	207	LTP1	1	MTC					LTP1		*MTL		

\*Momentarily Operated



TABLE B

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
B	Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	1	LTP1	1	MTC	LTP1		5B of LTP1	5M of LTP1	
		2					LTP1	5M of LTP1		
	Master Test Control (Transverter Test Preference)	3	TTP1	1	MTC	TTP1		5B of TTP1	5M of TTP1	
		4					TTP1	5M of TTP1		
	Master Test Control (Pretranslator Test Preference)	5	PTP1	10/29	MTC, 2SMTC	PTP1		8B of PTP1	8M of PTP1	
		6					PTP1	8M of PTP1		
	Line Insulation Test Circuit (Directory Number Printout)	7	LITV1	35	MTC	LITV1		5B of LITV1	5M of LITV1	
		8					LITV1	5M of LITV1		
	Automatic Progression Trunk Test Ckt	9	ATP1	1	MTC	ATP1		5B of ATP1	5M of ATP1	
		10					ATP1	5M of ATP1		
	Remote Office Test Line/Remote Office Test Register/Mini-ROTL Interface CKT	11	RTP2	28	MTC	RTP2		5B of RTP2	5M of RTP2	
		12					RTP2	5M of RTP2		
	Automatic Range Extension Test Circuit	13	REP1	1, ZF	MTC	REP1		5B of REP1	5M of REP1	
		14					REP1	5M of REP1		
	Line Verification-Marker and/or Computer Line Verification Access Circuit	15	LVP1	1	MTC	LVP1		5B of LVP2	5M of LVP1	
		16					LVP1	5M of LVP1		
	Trunk Test Register Circuit	17	TTR1	1	MTC	TTR1		5B of TTR1	5M of TTR1	
		18					TTR1	5M of TTR1		
	Second Trunk Test Register Circuit	19	TTR3	1, ZO	MTC	TTR3		5B of TTR3	5M of TTR3	
		20					TTR3	5M of TTR5		
	Master Test Control (Marker Test Pref)	21	MTP1	1	MTC	MTP1		5B of MTP1	5M of MTP1	
		22					MTP1	5M of MTP1		
	Automatic Call Distributor Test Connector	23	ACD1	1, YW	ACD, MTC	ACD1		5B of ACD1	5M of ACD1	
		24					ACD1	5M of ACD1		



TABLE B (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
B (Contd)	Transverter Test Lockout	25	TTL	1	MTC	TTL				7B of TTL
		26						TTL	7B of TTL	
	Marker Test Lockout	27	MTL	1	MTC	MTL				7B of MTL
		28						MTL	7B of MTL	
	Automatic Call Distributor Test Connector	29	ACD	1, YW	ACD MTC		ACD1			
		30				ACD			1B of ACD	1M of ACD
		31						ACD, ACD1	1M of ACD	
	Automatic Monitor Register, and Sender Test Circuit	32	MON	1	MTC	MON			10B of MON	10M of MON
		33						MON	10M of MON	
	Master Test Control (Marker Test Pref)	34	MTP	1	MTC		MTP1			
		35				MTP			10B of MTP	10M of MTP
		36						MTP	10M of MTP	
	Second Trunk Test Register Circuit	37	TTR2	1, ZO	MTC		TTR3			
		38				TTR2			10B of TTR2	10M of TTR2
		39						TTR2, TTR3	10M of TTR2	
	Trunk Test Register Circuit	40	TTR	1	MTC		TTR1			
		41				TTR			10B of TTR	10M of TTR
		42						TTR, TTR1	10M of TTR	
	Sender Test Circuit	43	FSP	1	MTC	FSP			1B of FSP	1M of FSP
		44						FSP	1M of FSP	
	Line Verification-Marker and/or Computer Line Verification Access Circuit	45	LVP	1	MTC		LVP1			
		46				LVP			10B of LVP	10M of LVP
		47						LVP, LVP1	10M of LVP	
	Automatic Range Extension Test Circuit	48	REP2	1, ZF	MTC	REP2			10B of REP2	10M of REP2
		49						REP2	10B of REP2	
		50	REP	1, ZF	MTC		REP1			
		51				REP			10B of REP	10M of REP
		52						REP, REP1	10M of REP	



TABLE B (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
B (Contd)	Remote Office Test Line/Remote Office Test Register/Mini-ROTL Interface Ckt	53	RTP	28	MTC		RTP2			
		54				RTP			10B of RTP	10M of RTP
		55						RTP, RTP2	10M of RTP	
	Automatic Progression Trunk Test Ckt	56	ATP	1	MTC		ATP1			
		57				ATP			10B of ATP	10M of ATP
		58						ATP, ATP1	10M of ATP	
	Line Insulation Circuit (Directory Number Printout)	59	LITV	35	MTC		LITV1			
		60				LITV			10B of LITV	10M of LITV
		61						LITV, LITV1	10M of LITV	
	Line Insulation Test Circuit (No Directory Number Printout)	62	LIT	1	MTC	LIT			1B of LIT	1M of LIT
		63						LIT	1M of LIT	
	Stuck Sender Trunk Identifier	64	SSP	1, ZS	MTC	SSP			10B of SSP	10M of SSP
		65						SSP	10M of SSP	
	2A Line Concentrator Circuit	66	CTR	W	RLY RACK		Last CTR		2B of CTR	2M of CTR
		67						Last CTR	2M of CTR	
	Repeat Tests 66 and 67 For Each Remaining 2A Line Concentrator	68								
	Completing Marker Circuit	69	MPR_	6	MTC, 2SMTC	First MPR_			10B of MPR_	10M of MPR_
		70						First MPR_	10M of MPR_	
	Repeat Tests 69 and 70 For each Remaining Completing Marker	71								
	Dial Tone Marker Circuit	72	MPR1_	8	MTC, 2SMTC	First MPR1_			10B of MPR1_	10M of MPR1_
		73						First MPR1_	10M of MPR1_	
	Repeat Tests 72 and 73 For Each Remaining Dial Tone Marker	74								



TABLE B (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
B (Contd)	Master Test Control (Pretranslator Test Preference)	75	PTP	10/29, YA/YB	MTC, 2SMTC		PTP1			
		76				PTP			10B of PTP/ 10M of PTP	10M of PTP/ 10B of PTP
		77						PTP, PTP1 10B of PTP/	10M of PTP/ 10B of PTP	
	Pretranslator/IDDD Pretranslator/IR Pretranslator	78	PPR_	10/30, YA/YB	MTC/IDDD PRT/RLY RACK	First PPR_			2B of PPR_	2M of PPR_
		79						First PPR_	2M of PPR_	
	Repeat Tests 78 and 79 For Each Remaining Pretranslator	80								
	Transverter Circuit (LAMA/CAMA/ANI)	81	TVP_	1	MTC	First TVP_				9F of TVP_
		82						First TVP_	9F of TVP_	
	Repeat Tests 81 and 82 For Each Remaining Transverter	83								
	Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	84	LTP	1	MTC	LTP				9F of LTP
		85						LTP	9F of LTP	
	AMA Recorder- Regular (LAMA/CAMA)	86	RPR_	20/32	MTC	First RPR_				9F of RPR_
		87						First RPR_	9F of RPR_	
	AMA Recorder- Emergency (LAMA/ CAMA)	88	RPR-EMG	18/25	MTC	RPR-EMG				9F of RPR-EMG
		89						RPR-EMG	9F of RPR-EMG	
	Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Magnetic Tape Recorders)	90	MPB	25	MTC	MPB				9F of MPB
		91						MPB	9F of MPB	
		92	MPS	25	MTC	MPS				9F of MPS
		93						MPS	4F of MPS	
94		MAGT	25	MTC	MAGT				4F of MAGT	
	95						MAGT	4F of MAGT		



TABLE B (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
B (Contd)	Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Paper Tape Recorders)	96	TPO	18	MTC	TPO				9F of TPO
		97					TPO		9F of TPO	
		98	TPE	18	MTC	TPE				9F of TPE
		99					TPE		9F of TPE	
C	AMA Recorder-Emergency (LAMA/CAMA)	100	RPR-EMG	18/25	MTC	RPR-EMG			10B of RPR-EMG	10M of RPR-EMG
		101					RPR-EMG		10M of RPR-EMG	
	AMA Recorder Regular (LAMA/CAMA)	102	RPR_	20	MTC	First RPR_			10B of RPR_	10M of RPR_
		103					First RPR_		10M of RPR_	
	Repeat Tests 102 and 103 For Each remaining AMA Recorder	104								
	Master Test Control (Transverter Test Preference)	105	TTP	1	MTC	TTP			1B of TTP	1M of TTP
		106					TTP		1M of TTP	
	Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	107	LTP	1	MTC	LTP			10B of LTP	10M of LTP
		108					LTP		10M of LTP	
	Transverter Circuit (LAMA/CAMA/ANI)	109	TVP_	1	MTC	First TVP_			10B of TVP_	10M of TVP_
		110					First TVP_		10M of TVP_	
	Repeat Tests 109 and 110 For Each Remaining Transverter	111								
	Master Timing Circuit (LAMA Or Combined ANI and CAMA Features With Paper Tape Recorders)	112	PCN	18	MTC		MTE, MTO			
		113					PCN		10B of PCN	10M of PCN
		114						PCN	10M of PCN	
		115	TPE	18	MTC	TPE			10B of TPE	10M of TPE
		116						TPE	10M of TPE	
		117	TPO	18	MTC	TPO			10B of TPO	10M of TPO
118							TPO, MTE, MTO	10M of TPO		



TABLE B (Contd)

TEST	CIRCUIT	TEST NO	RELAY			BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	VERIFICATION	
			UNDER TEST	APP FIG & OPTION	FRAME				GRD ABS	GRD PRES
C (Contd)	Master Timing Circuit (LAMA or Combined ANI and CAMA Features With Magnetic Tape Recorders)	119	MAGT	25	MTC		BS, SC, MMT			
		120				MAGT			1B of MAGT	1M of MAGT
		121						MAGT	1M of MAGT	
		122	MPS	25	MTC	MPS			10B of MPS	10M of MPS
		123						MPS	10M of MPS	
		124	MPB	25	MTC	MPB			10B of MPB	10M of MPB
		125						MPB, BS, SC, MMT	10M of MPB	
E	No Test Connector Access – Special Preference	126	SP0	1	MTC	SPO			1M of SP0	
		127						SP0		1M of SP0
		128	SP1	1	MTC	SP1			10B of SP1	10M of SP1
		129						SP1	10M of SP1	
		130	SP2	1	MTC	SP2			1B of SP2	1M of SP2
		131						SP2	1M of SP2	
		132	SP3	1	MTC	SP3			10B of SP3	10M of SP3
		133						SP3	10M of SP3	
		134	SP4	1, ZF	MTC	SP4			1B of SP4	1M of SP4
		135						SP4	1M of SP4	

