40

MASTER TEST FRAME CONNECTOR SD-25805-01
PREFERENCE AND LOCKOUT CHAINS
TESTS
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method for testing the master test frame connector SD-25805-01 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 specify testing procedures and to 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 concentrator or route translators.

(c) To revise Test B to add a test procedure of preference relays in the functional chain for offices arranged for 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:

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1.04 All tests should be performed during periods of minimum traffic because the master test frame (MTF) must be removed from service. Should a request be made upon the trouble recorder while a test is in progress, the minor and/or the major alarm(s) are activated. The TTR and DL_ lamps also light. The alarm(s) may be silenced and the lamps extinguished by momentary operation of the TRR-AR key on the MTF trouble recorder panel.

> ***Note 1:*** The trouble recorder request alarm may also be silenced by remote control. Using a 3P3D cord, patch the TTR-AR jack to one of the RC-AR jacks on the trouble recorder panel and connect a 32A test set to the SP jack at the associated equipment frame. Momentary operation of the 32A test set red (RL) button will cause the alarms to silence. Also, the alarms will be silenced by momentarily inserting a 349A (make-busy) plug into the equipment frame SP jack.

> ***Note 2:*** In offices equipped with an alarm sending circuit, an optional master alarm release (MAR) key may be provided at the MTF jack, lamp, and key bay. When the MAR key is momentarily operated, all locked-in alarms are simultaneously released including the trouble request audible and visual alarms.

> ***Note 3:*** An optional trouble recorder request-timed automatic release (TRR-TAR) key may be furnished in addition to the TRR-AR key at the trouble recorder panel. When the TRR-TAR key is operated, it causes the trouble recorder alarms to silence and the TTR lamp to extinguish.

1.05 While these tests are in progress, no other tests are to be performed using the automatic monitor, register, and sender test circuit; master test control circuit, automatic progression trunk test circuit, remote office test line, trunk test register circuit, route translator test circuit, or the line insulation test circuit.

> ***Note:*** When the remote control feature from the connecting test center is provided for the line insulation test circuit, notify the test center to postpone the starting of a line insulation test until the tests have 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 Test procedures are for use by offices equipped with all optional equipment provided; however, these tests may be used by offices equipped with only the optional equipment required to meet varying local needs. For example, to test the MON relay, the MTP relay is the first relay to be blocked operated. Where the MON relay is not provided, proceed in order of preference to the next provided relay (ACD, CTR, RTP, ATP, TRR2, TTR, FSP, LVP, REP, REP2, SSP) and block operated. If no optional preference relays are provided, the MPR-0 relay is the first relay to be blocked operated.

1.07 When offices are arranged with the expanded marker feature, facilities for both the additional completing marker(s) and additional dial tone marker(s) are located on the second supplementary master test connector frame (2SMTC).

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

1.09 ***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 322A (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).

Tests C, D

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

3. PREPARATION

STEP	ACTION	VERIFICATION
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
A. OP Chain		
	Note: Refer to paragraphs 1.04, 1.05, 1.06, 1.07, and 1.08.	
4	At MTFC— Insulate 1T, 2T, and 3T contacts of MTP relay.	
5	Perform tests in accordance with Table A, Tests 1 through 129.	
6	Remove insulators from MTP relay.	

STEP	ACTION	VERIFICATION
7	At MTF— Remove make-busy plug from TRMB jack.	
B.	**CIA Chain**	
	Note: Refer to paragraphs 1.04, 1.05, 1.06, 1.07, and 1.08.	
4	At MTFC— Perform tests in accordance with Table B, Tests 1 through 109.	
5	At MTF— Remove make-busy plug from TRMB jack.	
C.	**CI Chain**	
	Note: Refer to paragraphs 1.04, 1.05, 1.06, 1.07, 1.08, and 1.09.	
4	At MTFC— Insulate 3T contact of MTP relay.	
5	Using 893 cord, connect ground to 3T contact of last MPR_ relay.	
6a	If office is arranged for LAMA or combined ANI and CAMA features with paper tape recorders— Perform tests in accordance with Table B, Tests 110 through 131.	
7a	Remove insulator from MTP relay.	
8a	Remove test connection from MPR_ relay.	
9a	At MTF— Remove make-busy plug from TRMB jack.	
10b	If office is arranged for LAMA or combined ANI and CAMA features with magnetic tape recorders— Perform tests in accordance with Table B, Tests 110 through 125 and 132 through 140.	
11b	Remove insulator from MTP relay.	
12b	Remove test connection from MPR_ relay.	
13b	At MTF— Remove make-busy plug from TRMB jack.	

STEP **ACTION** **VERIFICATION**

D. SP-OP Chain

Caution: The following test procedures may interface 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 1T contacts of SP0, SP1, SP2, and SP4 relays.

5 Insulate 6T contact of SP3 relay.

6 Perform tests in accordance with Table A, Tests 130 through 150.

7 Remove insulators from SP0, SP1, SP2, SP3, and SP4 relays.

8 At MTF—
Remove make-busy plug from TRMB jack.

E. SP-SPC 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—
Perform tests in accordance with Table B, Tests 141 through 149.

5 At MTF—
Remove make-busy plug from TRMB jack.

F. MKT Chain

4 At MTFC—
Block nonoperated CIT and CIC relays.

5 Perform tests in accordance with Table B, Tests 141 through 149.

6 Remove blocking tools from CIT and CIC relays.

7 At MTF—
Remove make-busy plug from TRMB jack.

STEP	ACTION	VERIFICATION
G. PTT Chain		
4	At MTFC— Block nonoperated CIT and CIC relays.	
5	Perform tests in accordance with Table A, Tests 168 through 174.	
6	Remove blocking tool from CIT, CIC, and PTP1 relays.	
7	At MTF— Remove make-busy plug from TRMB jack.	
H. TVT Chain		
4	At MTFC— Block nonoperated CIT and CIC relays.	
5	Perform tests in accordance with Table H, Tests 175 through 184.	
6	Remove blocking tools from CIT and CIC relays.	
7	At MTF— Remove make-busy plug from CIT, CIC, and TTL relays.	
8	At MTF— Remove make-busy plug from TRMB jack.	
I. MTL, TTL Chains		
4	Block nonoperated CIT and CIC relays.	
5	Perform tests in accordance with Table A, Tests 185 through 193.	
6	Remove blocking tools from CIT and CIC relays.	
7	At MTF— Remove make-busy plug 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 Monitor, Register, and Sender Test Circuit	1	MON	2	MTC	MTP	6B of MON						MON
		2						MTP				MON	
		3							6B of MON				MON
		4									MTP		
	Master Test Control (Marker Test Preference)	5	MTP	2, SO/SV	MTC	ACD	6B of MTP/ 4B of MTP						MTP
		6						ACD				MTP	
		7							6B of MTP/ 4B of MTP				MTP
		8									ACD		
	Automatic Call Distributor Test Connector	9	ACD	199	RR	CTR of last 2A CONC	U of ACD						ACD
		10						CTR of last 2A CONC				ACD	
		11							U of ACD				ACD
		12									CTR of last 2A CONC		
	2A Line Concentrator Circuit	13	CTR		RR	RTP	2L of last CTR						CTR
		14						RTP				CTR	
		15							2L of last CTR				CTR
		16									RTP		
	Repeat Tests 13 Through 16 for Each Remaining 2A Concentrator	17											
	Remote Office Test Line/ Remote Office Test Register/ Or Mini-ROTL Interface Ckt	18	RTP	195	RR	ATP	2L of ATP						RTP
		19						ATP				RTP	
		20							2L of ATP				RTP
		21									ATP		

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 Progression Trunk Test Circuit	22	ATP	44	MTC	TTR2	4B of ATP						ATP
		23						TTR2				ATP	
		24							4B of ATP				ATP
		25									TTR2		
	Second Trunk Test Register Circuit	26	TTR2	185	MTC	TTR	4B of TTR2						TTR2
		27						TTR				TTR2	
		28							4B of TTR2				TTR2
		29									TTR		
	Trunk Test Register Circuit	30	TTR	167	MTC	FSP	4B of TTR						TTR
		31						FSP				TTR	
		32							4B of TTR				TTR
		33									FSP		
	Sender Test Circuit	34	FSP	167, TX	MTC	LVP	4B of FSP						FSP
		35						LVP				FSP	
		36							4B of FSP				FSP
		37									LVP		
	ETS Power and Data Interface Ckt or Line Verification (Marker) and/or Computer line Verification Access Ckt	38	LVP	46	MTC	REP	4B of LVP						LVP
		39						REP				LVP	
		40							4B of LVP				LVP
		41									REP		
	Automatic Range Extension Test Circuit	42	REP	183	MTC	REP2	4B of REP						REP
		43						REP2				REP	
		44							4B of REP				REP
		45									REP2		
		46	REP2	183	MTC	RTP0	6B of REP2						REP2
		47						RTP0				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 (Contd)	48							6B of REP2				REP2
		49									RTP0		
	Route Translator Circuit	50	RTP0	181	MTC	RTP1	4B of RTP0						RTP0
		51						RTP1				RTP0	
		52							4B of RTP0				RTP0
		53									RTP1		
		54	RTP1		MTC	SSP	4B of RTP1						RTP1
		55						SSP				RTP1	
		56							4B of RTP1				RTP1
		57									SSP		
	Stuck Sender Trunk Identifier	58	SSP	186,OB	MTC	First MPR_	4B of SSP						
		59						First MPR_					
		60							4B of SSP				
		61									First MPR_		
	Combined, Completing, or Dial Tone Marker Circuit	62	MPR—	3/4/5/ 187/188	MTC,DMTC, 2SMTC	PTP	4B of MPR_/ L of MPR_						MPR_
		63						PTP				MPR_	
		64							4B of MPR_/ L of MPR_				MPR_
		65									PTP		
	Repeat Tests 62 Through 65 for Each Remaining Combined, Completing, Or Dial Tone Marker Circuit	66											
	Master Test Control (Pretranslator Test Preference)	67	PTP	31	PRT-0	First PPR_	4B of PTP						PTP
		68						First PPR_				PTP	
		69							4B of PTP				PTP
		70									First PPR_		

TABLE A (Contd)

			RELAY									VERIFICATION	
TEST	CIRCUIT	TEST NO	UNDER TEST	APP FIG & OPTION	FRAME	BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	RLY OPR	RLY RLS
A (Contd)	Pretranslator/IDDD Pretranslator/IR Pretranslator	71	PPR—	32/33/34/ 189/190/ 191/192/ 193	PRT-0	LITV	4B of PPR—						PPR—
		72						LITV				PPR_	
		73							4B of PPR_				PPR_
		74									LITV		
	Repeat Tests 71 Through 74 for Each Remaining Pretranslator	75											
	Line Insulation Test Circuit (Directory Number Printout)	76	LITV	56	MTC	LIT	L of LITV						LITV
		77						LIT				LITV	
		78							L of LITV				LITV
		79									LIT		
	Line Insulation Test Circuit (No Directory Number Printout—	80	LIT	40	MTC	TTP	4B of LIT						LIT
		81						TTP				LIT	
		82							4B of LIT				LIT
		83									TTP		
	Master Timing Circuit (LAMA or Combined ANI and CAMA Features with Paper Tape Recorders)	84	PCN	13	AMTC	TPE	6B of PCN						PCN
		85						TPE				PCN	
		86							6B of PCN				PCN
		87									TPE		
		88	TPE	13	AMTC	TPO	4B of TPE						TPE
		89						TPO				TPE	
		90							4B of TPE				TPE
		91									TPO		
		92	TPO	13	AMTC	RPR-EMG	4B of TPO						TPO
		93						RPR-EMG				TPO	
		94							4B of TPO				TPO
		95									RPR-EMG		

TABLE A (Contd)

			RELAY									VERIFICATION	
TEST	CIRCUIT	TEST NO	UNDER TEST	APP FIG & OPTION	FRAME	BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	RLY OPR	RLY RLS
A (Contd)	Master Timing Circuit (LAMA or Combined ANI and CAMA Features with Magnetic Tape Recorders)	96	MAGT	53	AMTC	MPS	7B of MAGT						MAGT
		97						MPS				MAGT	
		98							7B of MAGT				MAGT
		99									MPS		
		100	MPS	53	AMTC	MPB	7B of MPS						MPS
		101						MPD				MPS	
		102							7B of MPS				MPS
		103									MPB		
		104	MPB	53	AMTC	RPR-EMG	7B of MPB						MPB
		105						RPR-EMG				MPB	
		106							7B of MPB				MPB
		107									RPR-EMG		
	AMA Recorder-Emergency (LAMA/CAMA)	108	RPR-EMG	14	AMTC	First RPR	4B of RPR-EMG						RPR-EMG
		109						First RPR_				RPR-EMG	
		110							4B of RPR-EMG				RPR-EMG
		111									First RPR_		
	AMA Recorder-Regular (LAMA/CAMA)	112	RPR_	15/16/17	AMTC	TTP	4B of first RPR_						RPR_
		113						TTP				RPR_	
		114							4B of first RPR_				RPR_
		115									TTP		
	Repeat Tests 112 Through 115 for Each Remaining AMA Recorder	116											
	Master Test Control (Transverter Test Preference)	117	TTP	18	AMTC	LTP	7B of TTP						TTP
		118						LTP				TTP	
		119							7B of TTP				TTP
		120									LTP		

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)	Line Verification Ckt (ANI) and/or Computer Line Verification Access Ckt or ETS Power and Data Interface Ckt	121	LTP	49	AMTC	First TVP_	7B of LTP						LTP
		122						First TVP_				LTP	
		123							7B of LTP				LTP
		124									First TVP_		
	Transverter Circuit (LAMA/CAMA/ANI)	125	TVP_	19/20/21/159/168	AMTC	Last TVP_	4B of first TVP_/L of first TVP_						TVP_
		126						Last TVP_				TVP_	
		127							4B of first TVP_/L of first TVP_				TVP
		128									Last TVP_		
	Repeat Tests 125 Through 128 for Each Remaining Transverter	129											
D	No-Test Connector Access Special Preference	130	SP0	7	MTC		4B of SP0					SP0	
		131							4B of SP0				SP0
		132	SP1	7	MTC	SP0							
		133					4B of SP1						SP1
		134									SP0	SP1	
		136							4B of SP1				
		137	SP2	7,39	MTC	SP1							
		138					4B of SP2						SP2
		139									SP1	SP2	
		140				SP1							
		141								SP3			SP2
		142									SP1	SP2	
		143							4B of SP2				SP2
		144	SP3	39,184	MTC		8B of SP3					SP3	

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)	145								SP0		*SP3	
		146							8B of SP3				SP3
		147	SP4	184,PF/PG	MTC	SP3							
		148					4B of SP4						SP4
		149									SP3	SP4	
		150							4B of SP4				SP4
F	Master Test Control (Combined or Completing Marker Connector Controller)	151	MKT0	6,43	†	MTL							
		152								MKT0		MKT0	
		153						MTL					MKT0
		154	MKT1	6,43	†					MKT1		MKT1	
		155								MKT0		MKT0	MKT1
		156						MTL					MKT0
		157	MKT_	6/41/43/ 187	†					Next MKT_		Next MKT_	
		158								Prec MKT_		Prec MKT_	Next MKT_
		159						MTL					Prec MKT_
	Repeat Tests 157 Through 159 for Each Remaining Combined or Completing Marker	160											
	Master Test Control (Dial Tone Marker Connector Controller)	161	MKT1_	6/41/43/ 188	DMTC	MTL							
		162								First MKT1_		First MKT1_	
		163						MTL					First MKT1_
		164								Next MKT1_		Next MKT1_	
		165								Prec MKT1_		Prec MKT1_	Next MKT1_
		166						MTL					Prec MKT1_
	Repeat Tests 164 Through 166 for Each Remaining Dial Tone Marker	167											

* Remains Operated

† May be MTC, SMTC, 2SMTC, DMTC

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
G	Master Test Control (Pretranslator Connector Controller)	168	PTT0	36,47	PTR	PTP1							
		169								PTT0		PTT0	
		170						PTP1					PTT0
		171	PTT_	36,47	PTR					Next PTT_		Next PTT_	
		172								Prec PTT_		Prec PTT_	Next PTT_
		173						PTP1					Prec PTT_
	Repeat Tests 171 Through 173 for Each Remaining Pretranslator	174											
H	Master Test Control (Transverter Connector Controller)	175	TVT0	25,48	ATVC	TTL							
		176								TVT0		TVT0	
		177						TTL					TVT0
		178	TVT1		ATVC					TVT1		TVT1	
		179								TVT0		TVT0	TVT1
		180						TTL					TVT0
		181	TVT_		AMTC					Next TVT_		Next TVT_	
		182								Prec TVT_		Prec TVT_	Next TVT_
		183						TTL					Prec TVT_
	Repeat Tests 181 Through 183 for Each Remaining Transverter	184											
I	Master Test Control (Marker Test Preference)	185	MTP1	43	MTC					MTP1		MTL	
	Automatic Progression Trunk Test Circuit	186	ATP1	44	MTC					ATP1		MTL	
	Remote Office Test Line/ Remote Office Test Register/ Or Mini-ROTL Interface Ckt	187	RTP2	195,IR	RR					RTP2		MTL	

TABLE A (Contd)

TEST	CIRCUIT	TEST NO	RELAY UNDER TEST	RELAY APP FIG & OPTION	RELAY FRAME	BLOCK OPERATED	CONNECT RES BAT	MOM REM BLK TOOL	DISC RES BAT	MOM OPERATE	REMOVE BLK TOOL	VERIFICATION RLY OPR	VERIFICATION RLY RLS
I (Contd)	Second Trunk Test Register Circuit	188	TTR3	185	MTC					TTR3		MTL	
	Trunk Test Register Circuit	189	TTR1	167	MTC					TTR1		MTL	
	ETS Power and Data Interface Ckt or Line Verification (Marker) and/or Computer Line Verification Access Ckt	190	LVP1	46	MTC					LVP1		MTL	
	Automatic Range Extension Test Circuit	191	REP1	183	MTC					REP1		MTL	
	Master Test Control (Transverter Test Preference)	192	TTP1	48/159	AMTC/ ATVC					TTP1		*TTL	
	Line Verification—Marker and/or Computer Line Verification Access Circuit	193	LTP1	49/159	AMTC/ ATVC					LTP1		TTL	

*Remains 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 Ckt (ANI) and/or Computer Line Verification Access Ckt or ETS Power and Data Interface Ckt	1	LTP1	49/159	AMTC	LTP1			3T of LTP1 12B of LTP1	2T of LTP1/ 12M of LTP1
		2						LTP1	2T of LTP1 12M of LTP1	
	Master Test Control (Transverter Test Preference)	3	TTP1	48/159	AMTC	TTP1			3T of TTP1 12B of LTP1	2T of TTP1 12M of LTP1
		4						TTP1	2T of TTP1 12M of LTP1	
	Master Test Control (Pretranslator Test Preference)	5	PTP1	47	PRT-0	PTP1			3T of PTP1	2T of PTP1
		6						PTP1	2T of PTP1	
	Automatic Range Extension Test Circuit	7	REP1	183	MTC	REP1			3T of REP1	2T of REP1
		8						REP1	2T of REP1	
	ETS Power and Data Interface Ckt or Line Verification (Marker) and/or Computer Line Verification Access Ckt	9	LVP1	46	MTC	LVP1			3T of LVP1	2T of LVP1
		10						LVP1	2T of LVP1	
	Trunk Test Register Circuit	11	TTR1	167	MTC	TTR1			3T of TTR1	2T of TTR1
		12						TTR1	2T of TTR1	
	Second Trunk Test Register Circuit	13	TTR3	185	MTC	TTR3			3T of TTR3	2T of TTR3
		14						TTR3	2T of TTR3	
	Automatic Progression Trunk Test Circuit	15	ATP1	44,XW	MTC	ATP1			3T of ATP1	2T of ATP1
		16						ATP1	2T of ATP1	
	Remote Office Test Line/Remote Office Test Register/ or Mini-ROTL Interface Ckt	17	RTP2	195	RR	RTP2			5B of RTP2	5M of RTP2
		18						RTP2	5M of RTP2	
	Automatic Call Distributor Test Connector	19	ACD1	199	RR	ACD1			6B of ACD1	6M of ACD1
		20						ACD1	6M of ACD1	
	Master Test Control (Marker Test Pref)	21	MTP1	43	MTC	MTP1			3T of MTP1	2T of MTP1
		22						MTP1	2T of MTP1	
	Transverter Test Lockout	23	TTL	48	MTC	TTL			2B of TTL	1B of TTL

TABLE B (Contd)

			RELAY						VERIFICATION	
TEST	CIRCUIT	TEST NO	UNDER TEST	APP FIG & OPTION	FRAME	BLOCK OPERATED	BLOCK NONOPRD	REMOVE BLK TOOL	GRD ABS	GRD PRES
B (Contd)	Transverter Test Lockout (Contd)	24						TTL		2B of TTL
		25	TTL	159	ATVC	TTL			7F of TTL	7B of TTL
		26						TTL		7F of TTL
	Marker Test Lockout	27	MTL	43	MTC	MTL			2B of MTL	1B of MTL
		28						MTL		2B of MTL
	Automatic Monitor, Register, and Sender Test Circuit	29	MON	2	MTC	MON			5T of MON	3T of MON
		30						MON	3T of MON	
	Master Test Control (Marker Test Preference)	31	MTP	2	MTC	MTP			3T of MTP	1T of MTP
		32						MTP	1T of MTP	
	Automatic Call Distributor Test Connector	33	ACD	199	RR	ACD			2B of ACD	2M of ACD
		34						ACD	2M of ACD	
	2A Line Concentrator Circuit	35	CTR	—	RR	Last CTR			2B of CTR	2M of CTR
		36						Last CTR	2M of CTR	
	Repeat Tests 35 and 36 For Each Remaining 2A Line Concentrator	37								
	Remote Office Test Line/Remote Office Test Register/or Mini-ROTL Interface Ckt	38	RTP	195	RR		RTP2			
		39				RTP			10B of RTP	10M of RTP
		40						RTP, RTP2	10M of RTP	
	Automatic Progression Trunk Test Circuit	41	ATP	44	MTC		ATP1			
		42				ATP			3T of ATP	1T of ATP
		43						ATP, ATP1	1T of ATP	
	Second Trunk Test Register Circuit	44	TTR2	185	MTC		TTR3			
		45				TTR2			3T of TTR2	1T of TTR2
		46						TTR2,TTR3	1T of TTR2	

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)	Trunk Test Register Circuit	47	TTR	167	MTC		TTR1			
		48				TTR			3T of TTR	1T of TTR
		49						TTR,TTR1	1T of TTR	
	Sender Test Circuit	50	FSP	167,TX	MTC	FSP			3T of FSP	1T of FSP
		51						FSP	1T of FSP	
	ETS Power and Data Interface Ckt or Line Verification (Marker) And/Or Computer Line Verification Access Ckt	52	LVP	46	MTC		LVP1			
		53				LVP			3T of LVP	1T of LVP
		54						LVP,LVP1	1T of LVP	
	Automatic Range Extension Test Circuit	55	REP	183	MTC		REP1			
		56				REP			3T of REP	1T of REP
		57						REP,REP1	1T of REP	
		58	REP2	183	MTC	REP2			3T of REP2	1T of REP2
		59						REP2	1T of REP2	
	Route Translator Circuit	60	RTP0	181	MTC	RTP0			3T of RTP0	1T of RTP0
		61						RTP0	1T of RTP0	
		62	RTP1	181	MTC	RTP1			3T of RTP1	1T of RTP1
		63							1T of RTP1	
	Stuck Sender Trunk Identifier	64	SSP	186	MTC	SSP			3T of RTP1	1T of RTP1
		65						SSP	1T of RTP1	
	Combined, Completing, Or Dial Tone Marker Circuit	66	MPR_	3/4/5/ 187/188	MTC, DMTC, SMTC	First MPR_			3T of MPR_/ 88 of MPR_	1T of MPR_/ 8M of MPR_
		67						First MPR_	1T of MPR_/ 8B of MPR_	
	Repeat Tests 66 and 67 For Each Remaining Combined, Completing Or Dial Tone Marker Circuit	68								
	Master Test Control (Pretranslator Test Preference)	69	PTP	31	PRT-0		PTP1			
		70				PTP			3T of PTP	1T of PTP
		71						PTP, PTP1	1T of PTP	

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)	Pretranslator/IDDD Pretranslator/IR Pretranslator	72	PPR_	32/33/34 189/190/191/ 192/193	PRT-0		First PRA_			
		73				First PPR_			3T of PPR_	1T of PPR_
		74						First PPR_, First PPA_	1T of PPR_	
	Repeat Rests 72 Through 74 for Each Remaining Pretranslator	75								
	Line Insulation Test Circuit (Directory Number Printout)	76	LITV	56	MTC	LITV			2B of LITV	2M of LITV
		77						LITV	2M of LITV	
		78	LITV1	56	MTC	LITV1			7F of LITV1	
		79						LITV1		7F of LITV1
	Line Insulation Test Circuit (No Directory Number Printout)	80	LIT	40	MTC	LIT			3T of LIT	1T of LIT
		81						LIT	1T of LIT	
	Master Test Control (Transverter Test Preference)	82	TTP	18	AMTC		TTP1			
		83				TTP			2B of TTP	2M of TTP
		84						TTP, TTP1	2M of TTP	
	Line Verification Test (AMA/ANI and/or Computer Line Verification Access Circuit)	85	LTP	159	AMTC		LTP1			
		86				LTP			2B of LTP	2M of LTP
		87						LTP, LTP1	2M of LTP	
	Transverter Circuit (ANI)	88	TVP0	159, 168	ATVC	TVP0			2B of TVP0	2M of TVP0
		89						TVP0	2M of TVP0	
		90	TVP1	159, 168	ATVC	TVP1			2B of TVP1	2M of TVP1
		91						TVP1	2M of TVP1	
	AMA Recorder—Emergency (LAMA/CAMA)	92	RPR-EMG	14, 53	AMTC					4T of RPR-EMG
		93						RPR-EMG	4T of RPR-EMG	
	AMA Recorder—Regular (LAMA/CAMA)	94	RPR_	15/16/17	AMTC	First RPR_				4T of RPR_
		95						First RPR_	4T of RPR_	

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)	Repeat Tests 94 and 95 For Each Remaining AMA Recorder	96								
	Master Test Control (Transverter Test Preference)	97	TTP	18	AMTC	TTP				6T of TTP
		98						TTP	6T of TTP	
	Line Verification Ckt (ANI) and/or Computer Line Verification Access Ckt or ETS Power and Data Interface Ckt	99	LTP	49	AMTC	LTP				6T of LTP
		100						LTP	6T of LTP	
	Transverter Circuit (LAMA/CAMA/ANI)	101	TVP_	19/20/21/ 168	First TVP_					4T of TVP_/ 4M of TVP_
		102						First TVP_	4T of TVP_/ 4M of TVP_	
	Repeat Tests 101 and 102 for Each Remaining Transverter	103								
	Call Data Transmitter Translator Access Preference	104	TAP0	62	ATVC	TAP0				1M of TAP0
		105							1M of TAP0	
		106	TAP1	62	ATVC	TAP1				12M of TAP1
		107							12M of TAP1	
		108	TAP2	62	ATVC	TAP2				1M of TAP2
		109							1M of TAP2	
C	Line Verification Ckt (ANI) and/or Computer Line Verification Access Ckt or ETS Power and Data Interface Ckt	110	LTP	49	AMTC		LTP1			
		111				LTP			6B of LTP	4M of LTP
		112						LTP, LTP1	4M of LTP	
	Master Test Control (Transverter Test Preference)	113	TTP	18	AMTC		TTP1			
		114				TTP			6B of TTP	4M of TTP
		115						TTP, TTP1		
	AMA Recorder—Regular (LAMA/CAMA)	116	RPR_	15/16/17	AMTC		First RCR_			
		117				First RPR_			3T of RPR_	1T of RPR_
		118						First RPR_ First RCR_	1T of RPR_	

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)	Repeat Tests 116 Through 118 For Each Remaining AMA Recorder	119								
	AMA Recorder—Emergency (LAMA/CAMA)	120	RPR-EMG	14	AMTC		RCR-EMG			
		121				RPR-EMG			3T of RCR-EMG	1T of RCR-EMG
		122						RPR-EMG RCR-EMG		
	Transverter Circuit (LAMA/CAMA/ANI)	123	TVP_	19/20/21/168	ATVC	First TVP_			3T of TVP_/ 2B of TVP_	1T of TVP_/ 2M of TVP_
		124						First TVP_	1T of TVP_/ 2M of TVP_	
	Repeat Tests 123 and 124 For Each Remaining Transverter	125								
	Master Timing Circuit (LAMA or Combined ANI and CAMA Features with Paper Tape Recorders)	126	TPE	13	AMTC		MTE			
		127				TPE			3T of TPE	1T of TPE
		128						TPE, MTE	1T of TPE	
		129	TPO	13	AMTC		MTO			
		130				TPO			3T of TPO	1T of TPO
		131						TPO, MTO	1T of TPO	
	Master Timing Circuit (LAMA or Combined ANI and CAMA Features with Magnetic Tape Recorders	132	MAGT	53	AMTC		MMT			
		133				MAGT			6B of MAGT	4B of MAGT
		134						MAGT, MMT	4B of MAGT	
		135	MPS	53	AMTC		SC			
		136				MPS			6B of MAGT	4B of MAGT
		137						MPS, SC	4B of MAGT	
		138	MPB	53	AMTC		BC			
		139				MPB			6B of MPB	4B of MPB
		140						MPB, BC	4B of MPB	

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
E	No-Test Connector Access Special Preference	141	SP0	7	MTC	SP0			3T of SP0	1T of SP0
		142						SP0		3T of SP0
		143	SP1	7	MTC	SP1			3T of SP1	1T of SP1
		144						SP1		3T of SP1
		145	SP2	7	MTC	SP2			3T of SP2	1T of SP2
		146						SP2		3T of SP2
		147	SP3	39	MTC	SP3			3T of SP3	2T of SP3
		148						SP3		3T of SP3
		149	SP4	184	MTC	SP4			3T of SP4	1T of SP4
		150						SP4		3T of SP4