MULTIFREQUENCY INCOMING REGISTERS SD-25730-01 AND SD-26042-01 TESTS USING AUTOMATIC MONITOR, REGISTER, AND SENDER TEST CIRCUIT SD-25680-01 NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing nonwire-spring-relay and wire-spring-relay type multifrequency incoming registers and associated multifrequency signaling receiving circuits using the master test frame (MTF) automatic monitor, register, and sender test circuit in No. 5 crossbar offices.

1.02 This section is reissued for the following reasons:

(a) To revise Test G to prevent dropping trouble recorder cards.

(b) To make other minor changes as required.

This reissue does not affect Equipment Test Lists.

1.03 The tests covered are:

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1.04 ***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 conditions 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.

1.05 The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where

variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

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

1.07 If all other registers in the group become busy during any test, the traffic register associated with the GB lead will score. If the register times out during a toll or centrex attendant trunk class test and the register has not received all digits, the traffic register associated with either the PD or the PS lead will score. Local instructions should be followed with reference to recording and reporting any of these register operations.

1.08 ⧫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.⧫

2. APPARATUS

All Tests Except Q

2.01 Automatic monitor, register, and sender test circuit, SD-25680-01.

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

Test Q

2.03 Timing test set J24753A (SD-25707-01).

Tests G, R

2.04 KS-3008 stopwatch or equivalent.

Test Q, R

2.05 322A (make-busy) plug.

Test R

2.06 Insulating tools as required. Use tools and apply as covered in Section 069-020-801.

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests Except Q		
	Note: Refer t 1.05, 1.06 and 1.08.	
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Operate MAC key.	NVA lamp momentarily lighted.
4	After about 1 minute— Operate STT key.	
5	Select IR class of test.	
6	Select incoming register.	

STEP	ACTION	VERIFICATION
4. METHOD		
STEP	**ACTION**	**VERIFICATION**
A. Regular Call		
7	Operate keys and set switches in accordance with Test Charts ▶1 through 36.◀	
8	Operate REP key.	
9	Momentarily operate ST key and allow test cycle to repeat ten times.	
10	Restore REP key.	OK lamp lighted.
11	Momentarily operate RL key.	All lamps extinguished.
12	Restore all keys and switches not required in next test.	
	▶***Note:*** Tests B, C, D, and E actions and verifications are the same as shown in Test F.◀	
B. Special Call ▶—Test Charts 37 through 39.◀		
C. Link Release ▶—Test Chart 40.◀		
D. Double Connection ▶—Test Chart 41.◀		
E. Trunk Test Call ▶—Test Chart 42.◀		
F. Abandoned Call		
7	Operate keys and set switches in accordance with Test Chart ▶43.◀	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Restore all keys and switches not required in next test.	
G. Permanent Signal Timing		
7	Operate keys and set switches in accordance with Test Chart ▶44.◀	
8	Momentarily operate ST key. When D lamp lights, ***start timing.***	D lamp lighted. Within 20 to 32 seconds— OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
10	Restore all keys and switches not required in next test. ▶*Note:* Tests H, I, J, K, L, M, N, and O actions and verifications are the same as shown in Test P.◀	

H. Pulse Reversal ▶—Test Chart 45.◀
I. Slow Pulsing ▶—Test Charts 46 and 47.◀
J. False Keypulse Signal ▶—Test Charts 48 and 49.◀
K. Premature Start Pulse ▶—Test Chart 50.◀
L. Low Loss and Three-Frequency Keypulse Signal ▶—Test Charts 51 and 52.◀
M. Single-Frequency Digits ▶—Test Charts 53 and 54.◀
N. Three-Freuency Digit ▶—Test Charts 55 and 56.◀
O. Twist ▶—Test Charts 57 and 58.◀

P. 11 Prefix Digits

7	Operate keys and set switches in accordance with Test Charts ▶59 through 70.◀	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Restore all keys and switches not required in next test.	

Q. Short Timeout

1	At MTF— Insert make-busy plug into IRMB_ jack associated with register being tested.	
2	Measure RV and LR timing interval using circuit requirement table and timing test set.	
3	Remove make-busy plug.	

R. Common Alarm Timing

7	Operate keys and set switches in accordance with Test Chart ▶71.◀	
8	At monitor frame— Insulate 1, 2, 3T of IRP_ relay associated with last incoming register of last link group.	

STEP	ACTION	VERIFICATION
9	At MTF— Insert make-busy plug into IRMB_ jack of register being tested.	
10a	If alarms are transferred— Operate transfer key to NTR position.	TR lamp lighted.
11a	Momentarily operate RS key.	TR lamp extinguished. LO lamp lighted while RS key is operated.
12	Momentarily operate ST key; ***start timing.***	D lamp lighted. In 20 to 32 seconds— D lamp extinguished. In 20 to 32 seconds after D lamp is extinguished— TO lamp lighted.
13	Remove make-busy plug from IRMB_ jack; ***start timing.*** ***Note:*** If another circuit seizes the common alarm timing circuit prior to its seizure by register being tested, this test should be discontinued and started over again.	In 10 to 15 seconds. R-S-TOA lamp lighted. Major alarm sounds.
14	Insert make-busy plug into IRMB_ jack at register being tested.	Major alarm silenced.
15	Repeat Steps 13 and 14.	
16	At monitor frame— Remove insulator from IRP_ relay.	
17	At MTF— Momentarily operate RL key.	Major alarm silenced. All lamps extinguished.
18a	If alarms are transferred— Restore transfer key to NTR position.	
19	Restore all keys and switches not required in next test.	
S. Verification of Trouble Recorder Register Leads or Quick Trouble Record		
7	Operate keys and set switches in accordance with Test Charts ⧫72 through 75.⧫	
8	Hold operated QTR key.	
9	Momentarily operate ST key.	CCK lamp lighted. Trouble record taken. FR_, CN_, and RG_ perforations on card

STEP	ACTION	VERIFICATION
		should agree with number of marker connector frame, connector on frame, and register in connector.
10	Release QTR key.	
10	Release QTR key.	
11	Momentarily operate RL key.	All lamps extinguished.
12	Restore all keys and switches not required in next test. ▶*Note:* Tests T, U, and V actions and verifications are the same as shown in Test W.◀	

T. Tandem, Toll, CAMA, and Pulse Conversion Incoming Classes of Call ▶—Test Charts 76 through 118.◀

U. Operator Error Detection ▶Test Charts 119 through 170.◀

V. Centrex Attendant Class Calls ▶—Test Charts 171 and 172.◀

W. Centrex Transfer Class Calls

7	Operate keys and set switches in accordance with Test Charts ▶173 and 174.◀	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Restore all keys and switches not required in next test.	

5. PREPARATION OF TEST CHART

5.01 The Test Chart is used as a particular number chart and provides the priming information required for each test. Information obtained from local office records should be used to fill in the Test Chart in the following manner:

(a) Record an equipped incoming class of call and associated translator indication in the INC CLASS OF CALL and TRANSLATOR INDICATION columns respectively.

(b) Where more than one incoming register group is provided, an entry must be made in the INCOMING REGISTER GROUPS column to indicate the register group to which the test applies. Since it is possible to have a given combination of incoming class of call, code, number of digits required for marker start and translator indication available in more than one register group, this column, when properly completed, may show several or all register groups.

(c) When the register is arranged for variable number of digits or requires a start-pulse signal on all calls, record STP key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

(d) Record A_ through F_ digits as required in the CALLED NUMBER columns for a working area and/or office code.

5.02 ***For Test A***

(1) For Tests 1 and 2, record an OA incoming class of call and associated translator indication.

(2) For Tests 3 and 4, record an OB incoming class of call and associated translator indication.

(3) For Tests 5 and 6, record an AB incoming class of call and an FVD translator indication.

(4) When the register is not arranged for incoming classes of call of (1) or (2), use the remaining class(es) for Tests 1 through 6, recording an E_ digit when AB class is used or deleting the E_ digit for OA or OB incoming classes.

(5) For Tests 7 through 11, record the A_, B_, and C_ digits of an office code.

(6) Record an incoming class of call and associated translator indication for a 7-digit call.

(7) When the incoming classes of call and translator indications used in Tests 7 through 11 cannot be used for a 7-digit call in all incoming register groups, (5) and (6) above must be used for Tests 12 through 16, and 17 through 21 for different incoming register groups.

(8) For Tests 22 through 26, record an incoming class of call and associated translator indication for a 10-digit call.

(9) For Tests 22 through 26, record the A_ through F_ digits for an area and office code.

(10) When the incoming class of call and translator indication used in Tests 22 through 26 cannot be used for a 10-digit call in all incoming register groups, (8) and (9) above must be used for Tests 27 through 31, and 32 through 36 for different incoming register groups.

5.03 ***For Test B***

(1) Apply (c) of 5.01.

(2) For Test 39.1, record incoming class of call and translator indication as required for wideband service and A_ through G_ digits for local completion.

5.04 ***For Tests C through G***

(1) Apply (a) of 5.01

(2) ▶Operate ICL switch to OFF and CL key to OFF for Test G.◀

5.05 ***For Test H***

(1) Apply (a) of 5.01.

(2) Record A_ through K_ digits, as required for incoming class of call selected.

5.06 ***For Tests I and J***

(1) Apply (a), (b), (c), and (d) of 5.01.

5.07 ***For Test K***

(1) Apply (a) of 5.01.

5.08 ***For Test L***

(1) Apply (a) and (b) of 5.01.

(2) Record A_ through K_ digits as required for the incoming class of call selected. Use 0, 1, 2, 3, 5, 6, and 9 numericals at least once. When register is arranged to receive less than 7 digits, complete both Tests 51 and 52 using 0, 1, 2, 3, 5, 6, and 9 digits at least once.

5.09 ***For Test M***

(1) Apply (a) of 5.01, using other than a TAN incoming class of call.

(2) For Test 53, apply (d) of 5.01. Do not use 1, 3, 5, or 8 for the A digit.

(3) For Test 54, apply (d) of 5.01. Omit the A digit.

(4) Apply (c) of 5.01.

5.10 ***For Test N***

(1) Apply (a), (b), and (c) of 5.01.

(2) Record A_ through K_ digits as required for the incoming class of call selected. Do not use 1, 3, 5, or 8 for the A digit.

5.11 *For Test O*

(1) Apply (a), (b), and (c) of 5.01.

(2) Record digit 7 for A_ through K_ digits as required for the incoming class of call selected.

5.12 *For Test P*

For Tests 59 Through 64

(1) Apply (a), (b), and (c) of 5.01.

(2) Record the A_, B_, and C_ digits of a foreign area directing code.

For Tests 65 Through 70

(3) Apply (a), (b), and (c) of 5.01

(4) Record the working X- digits of 11X(X)-type service codes in the A, B, DIGITS—CODE((S) AND NUMBER column(s)

5.13 *For Test Q*

Test Chart not required.

5.14 *For Test R*

(1) Apply (a) and (b) of 5.01.

5.15 *For Test S*

(1) Apply (a), (b), (c), and (d) of 5.01.

5.16 *For Test T*

(1) A test number must be completed for each assigned ***incoming class of call,*** for example, TAN, TOL, etc., as determined from office records, which is used with trunks handling tandem, toll, CAMA, and pulse conversion codes. Record selected incoming class of call in the INC CLASS OF CALL column.

(2) An ABC code consistent with (1) above which is used with the selected incoming class of call is entered in the A, B, and C columns.

(3) D through K columns are completed as required for the selected code and incoming class of call to provide the number of digits expected on calls of the selected incoming class of call. Where the selected incoming class of call is arranged to receive incoming calls of varying numbers of digits; for example, 7- and 10-digit calls, a separate test must be completed for ***each different*** number of digits required for marker start.

(4) A translator indication, for example, LT, TT, etc, as passed by the incoming register to the completing marker for the selected incoming class of call, code and number of digits expected is entered in the TRANSLATOR INDICATION column.

(5) Where translation of the A_ digit is provided in the register, at least one test shall be provided for each digit translated. These need not be separate tests designed exclusively for the purpose of testing A_ digit translation but may be combined with other test considerations as indicated in (1) through (4).

(6) Additional tests must be provided as indicated in (1) through (5) for ***each incoming class of call*** available to the incoming registers.

(7) Apply (c) of 5.01.

5.17 *For Test U*

(1) Apply (b) of 5.01.

(2) When register is arranged for OA and/or OAS incoming classes of call, complete Tests 119, 120, 121, and 122.

(3) When register is arranged for OB and/or OBS incoming classes of call, complete Tests 123, 124, 125, and 126.

(4) When register is arranged for 4- or 5-digit PCR incoming class of call, complete Tests 127 and 128 or 129 and 130, respectively.

(5) When register is arranged for AB and/or ABS incoming classes of call, complete Tests 131, 132, 133, and 134.

(6) For tests 120, 122, 124, 126, 128, 130, 132, 134.

(a) When the register is cross-connected for ***exact*** number of digits—

- Record RR0 key under MISCELLANEOUS KEYS AND/OR SWITCHES column.
- Do not record a translator indication.

(b) When the register is cross-connected for ***minimum*** number of digits—

- Record the associated translator indication.
- Record SPL key in the MISCELLANEOUS KEYS AND/OR SWITCHES column for OAS, OBS, and ABS incoming classes of call.

(7) Complete Tests 135 through 146 , when the register is cross-connected for minimum number of digits for any or all of the incoming classes of call, record A_ through K_ digits as required for ***one less*** than the minimum number of digits the register can receive for each of the incoming classes of call.

(8) Complete Tests 147 through 158, when the register is cross-connected for exact number of digits for any or all of the incoming classes of call, record A_ through K_ digits as required for ***one less*** than the lowest exact number of digits the register can receive for each of the incoming classes of call.

(9) Complete for Tests 159 through 170, when the register is cross-connected for exact number of digits for any or all of the incoming classes of call, record the A_ through K_ digits as required for ***one more*** than the exact number of digits the register can receive for each of the incoming classes of call.

(10) When any incoming class of call is used only with 11 foreign area directing codes or 11X service codes, record 11 in the PREFIX DIGITS column for all tests.

5.18 *For Test V*

(1) Select a centrex attendant incoming class of call.

(2) When the incoming class used is associated with a 4-digit customer group, complete Test 171.

(3) When the incoming class used is associated with a 5-digit customer group, complete Test 172.

5.19 *For Test W*

(1) When option NQ is not provided in the master test control circuit SD-25800-01, complete Test 173.

(2) When option NQ is furnished in the master test control circuit SD-25800-01, complete Test 174, recording a TAN or TAN1 incoming class of call and associated translator indication that will be recognized as a centrex transfer class of call.

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																						TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (S) AND NUMBER (CALLED NUMBER)											INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
						A	B	C	D	E	F	G	H	J	K											
A	Regular Call	1				3	5	0	7																1	A
		2				5	0	7	1																2	
		3				4	7	1	3																3	
		4				7	1	3	5																4	
		5				2	3	5	0	7															5	
		6				3	5	0	7	1															6	
		7							3	5	0	7													7	
		8							5	0	7	1													8	
		9							0	7	1	3													9	
		10							7	1	3	5													10	
		11							1	3	5	0													11	
		12							3	5	0	7													12	
		13							5	0	7	1													13	
		14							0	7	1	3													14	
		15							7	1	3	5													15	
		16							1	3	5	0													16	
		17							3	5	0	7													17	
		18							5	0	7	1													18	
		19							0	7	1	3													19	
		20							7	1	3	5													20	
		21							1	3	5	0													21	
		22										3	5	0	7										22	
		23										5	0	7	1										23	
		24										0	7	1	3										24	
		25										7	1	3	5										25	

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																				TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS	DIGITS — CODE ($) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
					A	B	C	D	E	F	G	H	J	K										
A (Cont)		26									1	3	5	0									26	A
		27									3	5	0	7									27	(Cont)
		28									5	0	7	1									28	
		29									0	7	1	3									29	
		30									7	1	3	5									30	
		31									1	3	5	0									31	
		32									3	5	0	7									32	
		33									5	0	7	1									33	
		34									0	7	1	3									34	
		35									7	1	3	5									35	
		36									1	3	5	0									36	
B	Special Call OA	37			3	5	0	7							OAS	OA	SPL						37	B
	OB	38			5	0	7	1							OBS	OB	SPL						38	
	AB	39			7	1	3	5	0						ABS	FVD	SPL						39	
C	Link Release	40																RLR					40	C
D	Double Connection	41																DC					41	D
E	Trunk Test Call	42																TST					42	E
F	Abandoned Call	43																RAB					43	F
G	Permanent Signal	44																RPS	RRO	ICL SW OFF	CL KEY OFF		44	G
H	Pulse Reversal	45																PR					45	H
I	Slow Pulsing	46									1	2	3	4				SLO					46	I
		47									1	2	3	4				SLO					47	
J	False Key Pulse Signal	48						1	2	3	4							FKP	RRO				48	J
		49						1	2	3	4							FKP	RRO				49	
K	Premature Start Signal	50			2													STP	RRO				50	K

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																						TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (S) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
						A	B	C	D	E	F	G	H	J	K											
L	Low Loss and Three-Frequency Keypulse Signal	51																LL	PR	3FKP				51	L
		52																LL	PR	3FKP				52	
M	Single-Frequency Digit — Nonwire Spring	53							1	2	3	4	5	6	7			SF	PR					53	M
	Wire Spring	54							1	2	3	4	5	6	7			SF	PR					54	
N	Three Frequency Digit	55																3FD	RRO					55	N
		56																3FD	RRO					56	
O	Twist	57																LL	TWT					57	O
		58																LL	TWT					58	
P	11 Prefix Digits	59		1	1				1	2	3	4												59	P
	11-Foreign Area Directing Codes	60		1	1				1	2	3	4												60	
		61		1	1				1	2	3	4												61	
		62		1	1				1	2	3	4												62	
		63		1	1				1	2	3	4												63	
		64		1	1				1	2	3	4												64	
	11X Service Codes	65		1	1																			65	
		66		1	1																			66	
		67		1	1																			67	
		68		1	1																			68	
		69		1	1																			69	
		70		1	1																			70	
R	Common Alarm Timing	71																RPS	HLD					71	R
S	Verification of Trouble Recorder Leads or Quick Trouble Record	72							1	2	3	4	5	6	7									72	S
		73							1	2	3	4	5	6	7									73	
		74							1	2	3	4	5	6	7									74	
		75							1	2	3	4	5	6	7									75	

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																						TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (S) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
						A	B	C	D	E	F	G	H	J	K										
T	Tandem, Toll, CAMA, and Pulse Conversion Incoming Classes of Call	76																							76	T
		77																							77	
		78																							78	
		79																							79	
		80																							80	
		81																							81	
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		98																							98	
		99																							99	
		100																							100	

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																				TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (5) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
						A	B	C	D	E	F	G	H	J	K										
T (Cont)		101																					101	T (Cont)
		102																					102	
		103																					103	
		104																					104	
		105																					105	
		106																					106	
		107																					107	
		108																					108	
		109																					109	
		110																					110	
		111																					111	
		112																					112	
		113																					113	
		114																					114	
		115																					115	
		116																					116	
		117																					117	
		118																					118	
U	Operator Error Detection — OA	119				0	0	0								OA		STP	RRO					119	U
		120				0	0	0	0	0						OA		STP						120	
		121				0	0	0								OAS		STP	RRO					121	
		122				0	0	0								OAS		STP						122	
	OB	123				0	0	0	0	0						OB		STP	RRO					123	
		124				0	0	0	0	0						OB		STP						124	
		125				0	0	0								OBS		STP	RRO					125	
		126				0	0	0	0	0						OBS		STP						126	

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																				TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (S) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES							
						A	B	C	D	E	F	G	H	J	K									
U (Cont)	PCR	127				0	0	0								PCR		STP	RRO					127	U (Cont)
		128				0	0	0	0	0						PCR		STP						128	
		129				0	0	0	0							PCR		STP	RRO					129	
		130				0	0	0	0	0	0					PCR		STP						130	
	AB	131				0	0	0	0							AB		STP	RRO					131	
		132				0	0	0	0	0	0					AB		STP						132	
		133				0	0	0	0							ABS		STP	RRO					133	
		134				0	0	0	0	0	0					ABS		STP						134	
	"One less than minimum number of digits"	135														TOL		STP	RRO					135	
		136														TOL 1		STP	RRO					136	
		137														TOL 2		STP	RRO					137	
		138														TOL 3		STP	RRO					138	
		139														TOL 4		STP	RRO					139	
		140														TAN		STP	RRO					140	
		141														TAN 1		STP	RRO					141	
		142														FVD		STP	RRO					142	
		143														PCD		STP	RRO					143	
		144														PCD 1		STP	RRO					144	
		145														CAMA 0		STP	RRO					145	
		146														CAMA 1		STP	RRO					146	
	One less than lowest exact number of digits	147														TOL		STP	RRO					147	
		148														TOL 1		STP	RRO					148	
		149		1	1											TOL 2		STP	RRO					149	
		150														TOL 3		STP	RRO					150	

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																	TEST NO.	TEST
			INCOMING REGISTER GROUPS	PREFIX DIGITS		DIGITS — CODE (S) AND NUMBER (CALLED NUMBER)										INC CLASS OF CALL	TRANSLATOR INDICATION	MISCELLANEOUS KEYS AND/OR SWITCHES				
						A	B	C	D	E	F	G	H	J	K							
U (Cont)	One more than exact number of digits	151														TOL 4		STP	RRO		151	U (Cont)
		152														TAN		STP	RRO		152	
		153														TAN 1		STP	RRO		153	
		154														FVD		STP	RRO		154	
		155														PCD		STP	RRO		155	
		156														PCD 1		STP	RRO		156	
		157														CAMA 0		STP	RRO		157	
		158														CAMA 1		STP	RRO		158	
		159														TOL		STP	RRO		159	
		160														TOL 1		STP	RRO		160	
		161														TOL 2		STP	RRO		161	
		162														TOL 3		STP	RRO		162	
		163														TOL 4		STP	RRO		163	
		164														TAN		STP	RRO		164	
		165														TAN 1		STP	RRO		165	
		166														FVD		STP	RRO		166	
		167														PCD		STP	RRO		167	
		168														PCD 1		STP	RRO		168	
		169														CAMA 0		STP	RRO		169	
		170														CAMA 1		STP	RRO		170	
V	Centrex Attendant Class Calls	171				2	3	4	5								X11				171	V
		172				2	3	4	5	6							FVD				172	
W	Centrex Transfer Class Calls	173														TAN 1		TFR			173	W
		174																			174	