

**DIAL PULSE INCOMING REGISTERS SD-25729-01 AND SD-26041-01
TESTS USING AUTOMATIC MONITOR,
REGISTER, AND SENDER TEST CIRCUIT
SD-25680-01
NO. 5 CROSSBAR OFFICES**

1. GENERAL

1.01 This section provides various tests of the incoming dial pulse registers using the automatic monitor, register and sender test circuit, SD-25680-01.

1.02 This section is reissued for the following reasons:

- (a) To revise tests I and J.
- (b) To revise all test charts.
- (c) To make other minor changes.

This reissue does not affect Equipment Test Lists.

1.03 The tests covered are:

	PAGE
A. Regular Call: The following features are checked: (1) Registration of trunk link frame number. (2) Registration of trunk number. (3) Registration of pulses for each digit. (4) Registration of office code and numerals on a 2-out-of-5 code basis.	3
B. Special Call: This test checks the ability of the register to select a special marker.	4
C. Link Release: This test checks the ability of the register to time out and release when incoming class information is withheld.	5

D. Double Connection: This test checks the ability of the register to recognize a double connection in the incoming register link switch and to time out when this condition is encountered. **5**

E. Trunk Test Call: This test checks the ability of the register to recognize a trunk test call and to select a marker without receiving any digits. **5**

F. Abandoned Call: This test checks the ability of the register to release on abandoned calls. **5**

G. 11 Prefix Digits: This test checks the ability of the register to handle a 11 prefix on tandem class calls. **6**

H. Dial Tone: This test checks that dial tone is received from the register. **6**

I. Overall Timing: This test checks the long and short timing intervals of the overall timer. **6**

J. Common Alarm Timing: This test checks that the common alarm circuit is operated by the register within the allotted time interval. **8**

K. Verification of Trouble Recorder Leads or Quick Trouble Record: This test checks the ability of the register

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to send correct identifying information to the trouble recorder. 9

L. AC, RV, and LR Timing: This test checks the timing intervals of the AC, RV, and LR timers. 9

M. Extra Digits: This test checks that the register does not respond to more than the required number of digits. 10

N. Tandem, Toll, and CAMA Incoming Classes: The following features are checked: (1) Ability of the register to recognize tandem, toll, and CAMA class codes. (2) Ability of the register to seize a marker after the required number of digits is received for a selected code and incoming class. (3) Ability of the register to ground the required class and translator leads to the marker. 10

O. Service Codes: The following features are checked: (1) Ability of the register to recognize service codes. (2) Ability of the register to ground the required class and translator leads to the marker. 11

P. Toll Operator and/or System Codes: The following features are checked: (1) Ability of the register to recognize toll operator and/or system codes. (2) Ability of the register to ground the required class and translator leads to the marker. 11

Q. Pretranslation: This test checks the ability of the register to operate with the pretranslator circuit (SD-27969-01). 11

R. Pretranslator Guard Control: This test checks that the register will guard against completion of calls to 7-digit numbers when 10-digit numbers are dialed due to trouble conditions. 11

1.04 During Tests I and J, the traffic register associated with the PS lead will score each time the register times out unless a CAMA trunk class is used. If a CAMA trunk class is used, the

traffic register associated with the PD1 lead will score each time the register times out. During all tests, if all other registers in the group become busy, the traffic register associated with the GB lead will score. Local instructions should be followed with respect to reporting any of these traffic register operations.

1.05 Test R requires action and verification at the register under test.

1.06 An interchangeable code is a code that represents both a working office code in the home area and a working foreign area code. When a pretranslator is provided, the dialing of an interchangeable code will result in the pretranslator grounding the CMB lead to the incoming register.

1.07 **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.

1.08 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.

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

1.10 ♦On Issue 76D of SD-25800-01, a group of 20 "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 20 discontinued lamps, such as ATNT, DT, IAO, IMS, INC, IR, IT, ITDO, ITNP, ITP, IT1, LT, MISC, MLV, OGT, OR, ORIG, PTT, SDR, and TVT.♦

2. APPARATUS

Tests A Through K and M Through Q

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

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

Test H

2.03 52-type head telephone set or equivalent.

Tests I, J

2.04 KS-3008 stopwatch or equivalent.

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

Tests I, J, L

2.06 322A (make-busy) plug.

Test L

2.07 Timing test set, J24753A (SD-25707-01).

2.08 Testing cord, W3M cord, 6 feet long, equipped with one 310 plug, one 360A tool, one 360B tool, one 360C tool (3W4A cord), and three KS-6278 connecting clips.

Test R

2.09 Testing cord, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord).

2.10 Two 419A tools for use with 1W13A cord. Use tools and apply as covered in Section 069-131-811.

3. PREPARATION

STEP

ACTION

VERIFICATION

Note: Refer to 1.04 through 1.08.

Tests A Through K, M Through Q

- 1 At MTF—
Restore all keys and switches.
- 2 Momentarily operate RL key.
- 3 Operate MAC key.
- 4 After about 1 minute—
Operate STT key.
- 5 Select IR class of test.
- 6 Select incoming register.

All lamps extinguished.
NVA lamp momentarily lighted.

4. METHOD

STEP

ACTION

VERIFICATION

A. Regular Call

4- and 5-Digit Calls

- 7 Operate keys and set switches in accordance with Test Chart Test 1.

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STEP	ACTION	VERIFICATION
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 2 through 7.	

7-Digit Calls

11	Operate keys and set switches in accordance with Test Chart Test 8.	
12	Momentarily operate ST key.	OK lamp lighted.
13	Momentarily operate RL key.	All lamps extinguished.
14	Repeat Steps 11 through 13, as required for Tests 9 through 27.	

10-Digit Calls

15	Operate keys and set switches in accordance with Test Chart Test 28.	
16	Momentarily operate ST key.	OK lamp lighted.
17	Momentarily operate RL key.	All lamps extinguished.
18	Repeat Steps 15 through 17, as required for Tests 29 through 49.	

All Calls

19	Restore all keys and switches not required in next test.	
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B. Special Call

7	Operate keys and set switches in accordance with Test Chart Test 50.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 51 and 52.	
11	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
C. Link Release		
7	Operate keys and set switches in accordance with Test Chart Test 53.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Test 54.	
11	Restore all keys and switches not required in next test.	
D. Double Connection		
7	Operate keys and set switches in accordance with Test Chart Test 55.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Test 56.	
11	Restore all keys and switches not required in next test.	
E. Trunk Test Call		
7	Operate keys and set switches in accordance with Test Chart Test 57.	
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.	
F. Abandoned Call		
7	Operate keys and set switches in accordance with Test Chart Test 58.	
8	Momentarily operate ST key.	
9	Momentarily operate RL key.	

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STEP	ACTION	VERIFICATION
10	Restore all keys and switches not required in next test.	
G. 11 Prefix Digits		
7	Operate keys and set switches in accordance with Test Chart Test 59.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 60 through 68.	
11	Restore all keys and switches not required in next test.	
H. Dial Tone		
7	Operate keys and set switches in accordance with Test Chart Test 69.	
8a	If TA-TB jack is provided— Insert plug of head telephone set into TA-TB jack.	
9	Momentarily operate ST key.	D lamp lighted. Dial tone heard.
10	Momentarily operate ST key.	Dial tone silenced.
11	Momentarily operate RL key.	All lamps extinguished.
12	Repeat Steps 7 through 11, as required for Tests 70 through 78.	
13a	If TA-TB jack is provided— Remove plug of head telephone set from TA-TB jack.	
14	Restore all keys and switches not required in next test.	
I. Overall Timing		
7	Operate keys and set switches in accordance with Test Chart Test 79.	
8	Insert make-busy plug into IRMB_ jack associated with register under test.	

STEP	ACTION	VERIFICATION
9a	If NQ option is provided at the master test control circuit— Set ICL and CL switches to OFF.	
10	Momentarily operate ST key and when D lamp lights; <i>start timing</i> .	D lamp lighted. In 20 to 32 seconds— OK lamp lighted.
11	Momentarily operate RL key.	All lamps extinguished.
12	At relay rack frame— Block operated RB2 relay in group-busy circuit associated with register being tested.	
13	At MTF— Momentarily operate ST key and when D lamp lights; <i>start timing</i> .	D lamp lighted. In 4 to 7 seconds— OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	At relay rack frame— Remove blocking tool from RB2 relay.	
16	At MTF— Remove make-busy plug.	
17	Restore RPS, RRO keys.	
18	Select digit A3.	
19	Operate 24 MIN key.	
20b	If NBL key is provided and nonbylink-type pulsing is used— Operate NBL key.	
21a	If NQ option is provided at the master test control circuit— Set ICL and CL switches to select an incoming class of call and translator indication associated with Test Chart information recorded in INC CLASS OF CALL and TRANSLATOR INDICATION columns.	
22	Momentarily operate ST key.	OSA lamp lighted.
23	Momentarily operate ST key; <i>start timing</i> .	OSA lamp extinguished. OSB lamp lighted. In 20 to 32 seconds— RO, CCK, TBL lamps lighted. If NQ option is provided at the master test control circuit—

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STEP	ACTION	VERIFICATION
		Trouble record taken. RAO, RO designations perforated.
24	Momentarily operate RL key.	All lamps extinguished.
25	Restore all keys and switches not required in next test.	
J. Common Alarm Timing		
7	Operate keys and set switches in accordance with Test Chart Test 80.	
8	Insert make-busy plug into IRMB_ jack associated with register being tested.	
9	At monitor circuit— Insulate 1, 2, and 3 top of highest numbered IRP_ relay in chain for group being tested.	
10a	If alarm sending is provided— At MTF— 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; <i>start timing.</i>	TBL lamp lighted.
13	◆Momentarily operate QTR key.◆	Trouble record taken. RO designation perforated. In 40 to 64 seconds— TO lamp lighted.
14	Remove plug from IRMB_ jack; <i>start timing.</i> <i>Note:</i> If another circuit grounds the common alarm circuit during this test, it may be necessary to repeat the test.	In 10 to 15 seconds— R-S-TOA lamp lighted. Major alarm sounds.
15	Insert make-busy plug into IRMB_ jack.	Major alarm silenced.
16	Repeat Steps 14 and 15.	
17	Remove plug from IRMB_ jack.	
18	Remove insulator from IRP_ relay.	
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
K. Verification of Trouble Recorder Leads or Quick Trouble Record		
7	Operate keys and set switches in accordance with Test Chart Test 81.	
8	Momentarily operate ST key.	CCK lamp lighted.
		Note: Immediately proceed to Step 9 before CKS lamp is lighted.
9	Operate QTR key.	Trouble record taken. FR_, CN_, RG_ designations perforated identifying marker connector frame, connector on frame, and selected register in connector. Designations perforated identifying incoming class of call and translator indication corresponding to Test Chart information recorded in INC CLASS OF CALL and TRANSLATOR INDICATION columns.
10	Restore QTR key.	
11	Momentarily operate RL key.	All lamps extinguished.
12	Restore all keys and switches not required in next test.	
L. AC, RV, and LR Timing		
1	At MTF— Insert make-busy plug into IRMB_ jack associated with register under test.	
2	At register under test— Patch TST1 jack of timing test set in accordance with timing requirement table of SD drawing for timer under test.	
3	Prepare timing test set in accordance with section titled Test Set for Timing Tests J24753A Description and Application and timing requirement table of SD drawing.	
4	Patch, block, or insulate relays as required and specified in timing requirement table of SD drawing.	
5	Using timing test set, measure timing intervals of timer under test in accordance with timing requirement table of SD drawing.	Timing requirement indicated on ammeter of timing test set.

STEP	ACTION	VERIFICATION
6	Remove test cord from TST1 jack of timing test set and timer under test.	
7	Repeat Steps 2 through 6, as required for each remaining timer.	
8	At MTF— Remove make-busy plug from IRMB_ jack associated with register under test.	
M. Extra Digits		
7	Operate keys and set switches in accordance with Test Chart Test Test 87.	
8	Momentarily operate ST key.	<p>CKS, TBL lamps lighted. Trouble record taken. If OA or IB incoming class of call was selected— A_ through D_ perforations match the A'_ through D'_ perforations. E'_ perforated on a 2/5 basis. E7 perforated. If AB incoming class of call was selected— A_ through E_ perforations match A'_ through E'_ perforations. F'_ perforated on a 2/5 basis. F7 perforated.</p>
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Test 88.	
11	Restore all keys and switches not required in next test.	
N. Tandem, Toll, and CAMA Incoming Classes		
7	Operate keys and set switches in accordance with Test Chart Test 89.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 90 through 150.	
11	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
O. Service Codes		
7	Operate keys and set switches in accordance with Test Chart Test 151.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 152 through 155.	
11	Restore all keys and switches not required in next test.	
P. Toll Operator and/or System Codes		
7	Operate keys and set switches in accordance with Test Chart Test 156.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 157 through 170.	
11	Restore all keys and switches not required in next test.	
Q. Pretranslation		
7	Operate keys and set switches in accordance with Test Chart Test 171.	
8	Momentarily operate ST key.	OK lamp lighted.
9	Momentarily operate RL key.	All lamps extinguished.
10	Repeat Steps 7 through 9, as required for Tests 172 through 188.	
11	Restore all keys and switches not required in next test.	
R. Pretranslator Guard Control		
7	Operate keys and set switches in accordance with Test Chart Test 189.	
8	Insert make-busy plug into IRMB_ jack associated with register under test.	

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STEP	ACTION	VERIFICATION
9	Operate REC key.	
10	At register under test— Strap 11M of LCM relay to upper winding of TR relay.	
11	At MTF— Momentarily operate ST key.	OK lamp lighted. Trouble record taken. FR_, CN_, RG_ designations perforated identifying marker connector frame, connector on frame, and <i>selected</i> register connector. Designations perforated identifying incoming class of call and translator indication corresponding to Test Chart information recorded in INC CLASS OF CALL and TRANSLATOR INDICATION columns. At register under test— TR, CMB relays momentarily operated.
12	At MTF— Momentarily operate RL key.	All lamps extinguished.
13	Restore REC key.	
14	At register under test— Remove strap from 11M of LCM relay and upper winding of TR relay.	
15	Strap 10M of PST relay to upper winding of PRL relay.	
16	At MTF— Momentarily operate ST key.	TBL lamp lighted. Overflow tone heard. Trouble record taken. LR designation perforated. FR_, CN_, RG_ designations perforated identifying marker connector frame, connector on frame, and <i>selected</i> register in connector. At register under test— PRL relay momentarily operated. CMA relay <i>not</i> operated.
17	At MTF— Momentarily operate RL key.	All lamps extinguished.
18	At register under test— Remove strap from 10M of PST relay and upper winding of PRL relay.	
19	At MTF— Momentarily operate ST key.	OK lamp lighted.

STEP	ACTION	VERIFICATION
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and switches not required in next test.	
22	Remove make-busy plug from IRMB_ jack associated with register under test.	
5. PREPARATION OF TEST CHART		
<i>Note:</i> Refer to 1.08.		
5.01	The Test Chart is to be 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:	(g) When bylink-type pulsing is used, record BL key in MISCELLANEOUS KEYS AND/OR SWITCHES column.
	(a) 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 register groups.	(h) When the register is arranged to furnish dial tone on certain incoming classes of call and one of these classes has been selected, record DTT key in MISCELLANEOUS KEYS AND/OR SWITCHES column.
	(b) Record A_ through F_ digits as required for area and/or office codes.	5.02 For Test A
	(c) Record an equipped incoming class of call and associated translator indication.	(1) For Tests 1 and 2, record an OA incoming class of call and associated translator indication.
	(d) When the register is arranged to time for additional digits, record STD key in MISCELLANEOUS KEYS AND/OR SWITCHES column.	(2) For Tests 3 and 4, record an OB incoming class of call and associated translator indication.
	(e) When the register is arranged to cancel timing for extra digits, record SDC key in MISCELLANEOUS KEYS AND/OR SWITCHES column.	(3) For Tests 5, 6, 7, record an AB incoming class of call and an FVD translator indication.
	(f) When the NBL key is provided and nonbylink-type pulsing is used, record NBL key in MISCELLANEOUS KEYS AND/OR SWITCHES column.	(4) When a nonwire-spring-relay type register is under test and the LP-0 key is provided, record LP-0 in the MISCELLANEOUS KEYS AND/OR SWITCHES column for Tests 5, 6, and 7 when AB incoming class of call is used.
		(5) When the register is not arranged for any one or two of the above incoming classes of call, use the remaining class(es) for Tests 1 through 7, recording an E_ digit when AB class is used or deleting the E_ digit for OA or OB incoming classes.
		(6) For Tests 8 through 14, record the A_, B_, and C_ digits of an office code.
		(7) Record an incoming class of call and associated translator indication for a 7-digit call.
		(8) When the incoming classes of call and translator indications used in Tests 8 through 14 cannot be used for a 7-digit call in all incoming register groups, (6) and (7) must be used for

Tests 15 through 21, and 22 through 28 for different incoming register groups.

(9) For Tests 29 through 35, record an incoming class of call and associated translator indication for a 10-digit call.

(10) Record the A_ through F_ digits for an area and office code.

(11) When the incoming class of call and translator indication used in Tests 29 through 35 cannot be used for a 10-digit call in all incoming register groups, (9) and (10) must be used for Tests 36 through 42, and 43 through 49 for different incoming register groups.

(12) For all Tests, apply (d), (e), (f), (g), and (h) of 5.01.

5.03 For Test B

(1) For Tests 50 through 52, apply (d), (e), (f), (g), and (h) of 5.01.

5.04 For Test C

(1) For Tests 53 and 54, Test Chart complete.

5.05 For Test D

(1) For Tests 55 and 56, apply (c) of 5.01.

5.06 For Test E

(1) Apply (c) of 5.01.

5.07 For Test F

(1) Apply (c) of 5.01.

5.08 For Test G

(1) For Tests 59 through 68, apply (a) through (h) of 5.01 using foreign area directing codes for all incoming classes of call and translator indications associated with 11 foreign area directing codes.

5.09 For Test H

(1) For Tests 69 through 78, apply (a) through (h) of 5.01 for all incoming classes of call

and translator indications that require the register to furnish dial tone.

5.10 For Test I

(1) Apply (c) of 5.01.

5.11 For Test J

(1) Apply (c) of 5.01.

5.12 For Test K

(1) For Tests 81 through 86, apply (b) through (h) of 5.01.

5.13 For Test L

(1) Test Chart not required.

5.14 For Test M

(1) For Tests 87 and 88, apply (c) of 5.01 using OA, OB, or AB incoming class of call and associated translator indication.

(2) When AB incoming class of call is selected, record an F_ digit for each call.

5.15 For Test N

(1) For Tests 89 through 150, code structures as indicated in Table A are used.

TABLE A

CODE STRUCTURES

DIGIT	TESTS 89 THROUGH 120	TESTS 121 THROUGH 150
A	2 through 9	2 through 9
B	0 and 1	2 through 9
C	0 or 2 through 9	0 through 9

(2) 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 calls containing area or office codes of the structures shown in Table A. Record selected

incoming class of call in INC CLASS OF CALL column.

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

(4) Complete D through K columns 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.

(5) 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 TRANSLATOR INDICATION column.

(6) 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 (5).

(7) Where A and B digit translation is provided in the register, at least one test shall be provided for each A_ B_ digit combination translated. These need not be separate tests designed exclusively for the purpose of testing A and B digit translation but may be combined with other test considerations as indicated in (1) through (6).

(8) Additional tests must be provided as indicated in (1) through (7) for **each other incoming class of call** available to the dial pulse incoming registers.

(9) Tests 89 through 104, 105 through 120, and 121 through 150 must be completed separately by applying (1) through (8).

(10) A separate test (Tests 131 through 150) must be completed for **each** code cross-connected in the NN0 translator. Where any codes containing a C_ digit 0 are used for

an office code only (NN0 translator cross-connection omitted), a separate test using one such code must be provided.

(11) For all tests, apply (a), (d), (e), (f), (g), and (h) of 5.01.

5.16 For Test O

(1) For Tests 150 through 155, apply (a), (d) through (h) of 5.01.

(2) For Test 155, record the A_ digit for an assigned 11X service code.

5.17 For Test P

(1) For Tests 156 through 170, apply (a) through (h) of 5.01 using toll operator and/or system codes for each incoming class of call with which codes of the structure indicated are used.

5.18 For Test Q

Note: For detailed information refer to SD-27969-01, notes 401 through 403.

(1) For Tests 171 through 188, a test number must be completed for each assigned incoming class of call, ie, TOL TAN, CAMA, etc, as determined from office records, which is used with trunks handling calls containing area or office codes where the determination of the number of digits expected for various codes requires the use of pretranslation. Record selected incoming class of call in the INC CLASS OF CALL column.

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

(3) The 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.

(4) A translator indication, ie, 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.

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(5) Additional tests must be provided as indicated in (1) through (4) for each incoming class that requires a different marker start indication from the pretranslator.

5.19 For Test R

(1) For Tests 189 and 190, apply (a) through (h) of 5.01 using assigned foreign area and office codes with incoming classes of call and translator indications as required for 10-digit calls.

→TEST CHART←

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION											TEST NO.						
			INC REG GPS	PREFIX DIGITS	DIGITS-CODE(S) AND NUMBERS (CALLED NUMBER)										INC CLASS OF CALL	TRNSL IND	PULSING CONT (DP CALLING)	MISC KEYS AND/OR SWITCHES		
					A	B	C	D	E	F	G	H	J						K	
A	Regular Call	1			3	6	0	7										7 MIN		1
		2			6	0	7	1										7 MAX		2
		3			2	7	1	3										7 MIN		3
	4- and 5-Digit Call	4			7	1	3	6										7 MAX		4
		5			4	3	6	0	7									24 MIN		5
		6			3	6	0	7	1									24 MAX		6
		7			6	0	7	1	3									SURGE		7
		8							3	6	0	7						7 MIN		8
		9							6	0	7	1						7 MAX		9
	7-Digit Call	10							0	7	1	3						7 MIN		10
		11							7	1	3	6						7 MAX		11
		12							1	3	6	0						24 MIN		12
		13							1	2	3	4						24 MAX		13
		14							1	2	3	4						SURGE		14
		15							3	6	0	7						7 MIN		15
		16							6	0	7	1						7 MAX		16
		17							0	7	1	3						7 MIN		17
		18							7	1	3	6						7 MAX		18
		19							1	3	6	0						24 MIN		19
		20							1	2	3	4						24 MAX		20
		21							1	2	3	4						SURGE		21
		22							3	6	0	7						7 MIN		22
		23							6	0	2	1						7 MAX		23
		24							0	7	1	3						7 MIN		24
		25							7	1	3	6						7 MAX		25
		26							1	3	6	0						24 MIN		26
		27							1	2	3	4						24 MAX		27
	28							1	2	3	4						SURGE		28	
	29											3	6	0	7		7 MIN		29	
	30											6	0	7	1		7 MAX		30	
	31											0	7	1	3		7 MIN		31	
	32											7	1	3	6		7 MAX		32	
	33											1	3	6	0		24 MIN		33	
	34											1	2	3	4		24 MAX		34	
	35											1	2	3	4		SURGE		35	
	36	10-Digit Call	36									3	6	0	7		7 MIN		36	
	37											6	0	7	1		7 MAX		37	
	38											0	7	1	3		7 MIN		38	
	39											7	1	3	6		7 MAX		39	
	40											1	3	6	0		24 MIN		40	
	41											1	2	3	4		24 MAX		41	
	42											1	2	3	4		SURGE		42	
	43											3	6	0	7		7 MIN		43	
	44											6	0	7	1		7 MAX		44	
	45										0	7	1	3		7 MIN		45		



→TEST CHART (Contd)←

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION											TEST NO.									
			INC REG GPS	PREFIX DIGITS	DIGITS-CODE(S) AND NUMBERS (CALLED NUMBER)										INC CLASS OF CALL	TRNSL IND	PULSING CONT (DP CALLING)	MISC KEYS AND/OR SWITCHES					
					A	B	C	D	E	F	G	H	J						K				
A (Cont)	10-Digit Call (Cont)	46											7	1	3	6			7 MAX		46		
		47												1	3	6	0			24 MIN		47	
		48												1	2	3	4			24 MAX		48	
		49												1	2	3	4			24 MAX SURGE		49	
B	Special Call	OA 50																OAS	OA	24 MIN	SPL	50	
		OB 51																OBS	OB	24 MIN	SPL	51	
		AB 52																ABS	FVD	24 MIN	SPL	52	
C	Link Release	Non-Bylink 53																		24 MIN	RLR NBL* CL(TEA)*	53	
		Bylink 54																		24 MIN	BLR _{BL} CL(TEA)*	54	
D	Double Connection	Non-Bylink 55																		24 MIN	DC NBL*	55	
		Bylink 56																		24 MIN	DC BL	56	
E	Trunk Test Call	57																			TST	57	
F	Abandoned Call	58																			RAB	58	
G	11 Prefix Digits	59		1	1				1	2	3	4								24 MIN		59	
		60		1	1				1	2	3	4								24 MIN		60	
		61		1	1				1	2	3	4								24 MIN		61	
		62		1	1				1	2	3	4								24 MIN		62	
		63		1	1				1	2	3	4								24 MIN		63	
		64		1	1				1	2	3	4								24 MIN		64	
		65		1	1				1	2	3	4								24 MIN		65	
		66		1	1				1	2	3	4								24 MIN		66	
		67		1	1				1	2	3	4								24 MIN		67	
68		1	1				1	2	3	4								24 MIN		68			
H	Dial Tone	69							1	2	3	4								24 MIN	DTT* MIRT	69	
		70							1	2	3	4								24 MIN	DSS DTT* MIRT	70	
		71							1	2	3	4								24 MIN	DSS DTT* MIRT	71	
		72							1	2	3	4								24 MIN	DSS DTT* MIRT	72	
		73							1	2	3	4								24 MIN	DSS DTT* MIRT	73	
		74							1	2	3	4									24 MIN	DSS DTT* MIRT	74
		75							1	2	3	4									24 MIN	DSS DTT* MIRT	75

*When provided



→TEST CHART (Contd)←

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION											TEST NO.					
			INC REG GPS	PREFIX DIGITS	DIGITS-CODE(S) AND NUMBERS (CALLED NUMBER)										INC CLASS OF CALL	TRNSL IND	PULSING CONT (DP CALLING)	MISC KEYS AND/OR SWITCHES	
					A	B	C	D	E	F	G	H	J						K
H	Dial Tone (Cont)	76					1	2	3	4						24 MIN	DTT* MIRT	DSS	76
		77					1	2	3	4						24 MIN	DTT* MIRT	DSS	77
		78					1	2	3	4						24 MIN	DTT* MIRT	DSS	78
I	Overall Timing	79													24 MIN	RPS	RRO	79	
J	Common Alarm Timing	80													24 MIN	RPS	QTR	80	
K	Verification of Trouble Recorder Leads or Quick Trouble Rec'd.	81								1	2	3	4		24 MIN			81	
		82								1	2	3	4		24 MIN			82	
		83									1	2	3	4		24 MIN			83
		84									1	2	3	4		24 MIN			84
		85					1	2	3	4	5					24 MIN	SDC		85
86					1	2	3	4	5					24 MIN	SDC		86		
M	Extra Digits	87								1	2	3	4	5		24 MIN	SDC		87
		88								1	2	3	4	5		24 MIN	SDC		88
N	Tandem, Toll, and CAMA Incoming Classes	89								0					24 MIN			89	
		90								0					24 MIN			90	
		91								0					24 MIN			91	
		92								0					24 MIN			92	
		93								0					24 MIN			93	
		94								0					24 MIN			94	
		95								0					24 MIN			95	
		96								0					24 MIN			96	
		97								0					24 MIN			97	
		98								0					24 MIN			98	
		99								0					24 MIN			99	
		100								0					24 MIN			100	
		101								0					24 MIN			101	
		102								0					24 MIN			102	
103								0					24 MIN			103			
104								0					24 MIN			104			
105								1					24 MIN			105			
106								1					24 MIN			106			
107								1					24 MIN			107			
108								1					24 MIN			108			
109								1					24 MIN			109			
110								1					24 MIN			110			
111								1					24 MIN			111			
112								1					24 MIN			112			

*When provided



→TEST CHART (Contd)←

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION											TEST NO.								
			INC REG GPS	PREFIX DIGITS	DIGITS-CODE(S) AND NUMBERS (CALLED NUMBER)											INC CLASS OF CALL	TRNSL IND	PULSING CONT (DP CALLING)	MISC KEYS AND/OR SWITCHES			
					A	B	C	D	E	F	G	H	J		K							
N	Tandem, Toll and CAMA Incoming Classes (Cont)	113			1													24 MIN		113		
		114			1														24 MIN		114	
		115			1															24 MIN		115
		116			1															24 MIN		116
		117			1															24 MIN		117
		118			1															24 MIN		118
		119			1															24 MIN		119
		120			1															24 MIN		120
		121																		24 MIN		121
		122																		24 MIN		122
		123																		24 MIN		123
		124																		24 MIN		124
		125																		24 MIN		125
		126																		24 MIN		126
		127																		24 MIN		127
		128																		24 MIN		128
		129																		24 MIN		129
		130																		24 MIN		130
		131						0												24 MIN		131
		132						0												24 MIN		132
		133						0												24 MIN		133
		134						0												24 MIN		134
		135						0												24 MIN		135
		136						0												24 MIN		136
		137						0												24 MIN		137
		138						0												24 MIN		138
		139						0												24 MIN		139
		140						0												24 MIN		140
141						0												24 MIN		141		
142						0												24 MIN		142		
143						0												24 MIN		143		
144						0												24 MIN		144		
145						0												24 MIN		145		
146						0												24 MIN		146		
147						0												24 MIN		147		
148						0												24 MIN		148		
149						0												24 MIN		149		
150						0												24 MIN		150		
O	Service Codes Information { IIX** - Service	151			4	1	1										TAN	LT	24 MIN		151	
		152			4	1	1											TOL	LT	24 MIN		152
		153			4	1	1											CAMA 0	LT	24 MIN		153
		154			4	1	1											CAMA 1	LT	24 MIN		154
		155			1	1												TAN	11	24 MIN		155

X** = Any number from 0 to 9.



→TEST CHART (Contd)←

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION											TEST NO.							
			INC REG GPS	PREFIX DIGITS	DIGITS-CODE(S) AND NUMBERS (CALLED NUMBER)										INC CLASS OF CALL	TRNSL IND	PULSING CONT (DP CALLING)	MISC KEYS AND/OR SWITCHES			
					A	B	C	D	E	F	G	H	J						K		
P	Toll Operator and/or System Codes IXI** Type IXI** Type OXX** Type IIX** Type IIXX** Type	156			1	1											LT	24 MIN		156	
		157			1	1												LT	24 MIN		157
		158			1	1												LT	24 MIN		158
		159			1	1												LT	24 MIN		159
		160			1													LT	24 MIN		160
		161			1													LT	24 MIN		161
		162			0													LT	24 MIN		162
		163			0													LT	24 MIN		163
		164			0													LT	24 MIN		164
		165			1	1												LT	24 MIN		165
		166			1	1												LT	24 MIN		166
		167			1	1												LT	24 MIN		167
		168			1	1												LT	24 MIN		168
169			1	1												LT	24 MIN		169		
170			1	1												LT	24 MIN		170		
Q	Pretranslation (SD-27969-01)	171																24 MIN		171	
		172																24 MIN		172	
		173																24 MIN		173	
		174																24 MIN		174	
		175																24 MIN		175	
		176																24 MIN		176	
		177																24 MIN		177	
		178																24 MIN		178	
		179																24 MIN		179	
		180																24 MIN		180	
		181																24 MIN		181	
		182																24 MIN		182	
		183																24 MIN		183	
		184																24 MIN		184	
		185																24 MIN		185	
		186																24 MIN		186	
		187																24 MIN		187	
188																24 MIN		188			
R		189									1	2	3	4				24 MIN		189	
		190									1	2	3	4				24 MIN		190	

X** = Any number from 0 to 9.

