CAMA BILLING INDEXER SD-26012-01

TESTS USING MASTER TEST FRAME

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section is reissued for the following reasons:

(a) To revise all Tests to include reference to operation of keys and setting of switches in accordance with Test Chart test numbers.

(b) To revise all Tests to provide more detailed verification information.

(c9 To add Test R to provide testing procedures for billing of 411 and 555-1212 directory assistance calls using 2-line AMA tape entries.

(d) To make minor changes as required.

This reissue affects Equipment Test Lists.

1.02 The test covered are:

PAGE

1.03   For Tests A through L and O through ♦R,♦
Test Charts are furnished with spaces
provided for listing specific keys and key units to
be operated for each test, depending on local
conditions. These charts should be filled out from
local records in accordance with instructions provided
in Part 5.

1.04   *Lettered Steps:*   A letter a, b, c, etc,
added to a step number in Part 4 of this
section indicates on 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.

1.05   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. Therfore, where variable means of selection
are provided, precise instructions 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.

2.   APPARATUS

Tests A Through L, O Through ♦R♦

2.01   Master test control circuit SD-25800-01.

Tests H, L

2.02   Testing cord, 893 cord, 6 feet long, equipped
with two 360A tools (1W13B cord), one
KS-6278 connecting clip, and one 624B tool (to
connect ground to terminal strip terminals.   .

Tests H, L, M, N

2.03   322A (make-busy) plugs as required.

Test M

2.04   KS-3008 stopwatch, or equivalent.

Test N

2.05   Blocking tool. Use tool and apply as covered
in Section 069-020-801.

3. PREPARATION

STEP	ACTION	VERIFICATION

Note: Refer to 1.04, 1.05, and 1.06.

Tests A Through L, O Through ▶R◀

STEP	ACTION	VERIFICATION
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	▶Select TVT (CAMA) class of test.◀	
4	Select CAMA transverter.	
5	Operate BI0 or BI1 key to select billing indexer to be tested.	

4. METHOD

STEP	ACTION	VERIFICATION

A. Regular Call

STEP	ACTION	VERIFICATION
6	Operate keys and set switches in accordance with Test Chart ▶Test 1.◀	
7	Momentarily operate ST key.	▶TRL, BI_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, PRL, OTK, TTK, MBK, 2L or 4L designations perforated. OA_ through OG_ (originating office code and number) designations perforated. A_ through K_ (terminating area code, if required, terminating office code and number) designations perforated. CP0, 1 or CP0, 7; 4DG (7- or 10-digit code dialed) designations perforated. OD or AD (operator or automatically identified originating call) designations perforated. RG_, RN_ (recorder group and number) designations perforated. LCD_ or ACD, WKC (local code or area code dialed) designation perforated. ORC_ (originating rate class) designations perforated. OIT_, OIN_ (office index tens and units number) designations perforated. MBL_ (message billing index number) designations perforated.◀
8	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION

9 ◗Repeat Steps 6 through 8, as required for Tests 2 through 30.◖

10 Restore all keys and switches not required in next test.

B. Free Call

6 Operate keys and switches in accordance with Test Chart ◗Test 31.◖

7 Momentarily operate ST key.

◗TRL, BI_ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, PRL, OTK, TTK, MBK, 2L or 4L, ABX, FC designations perforated.
OA_ through OG_ (originating office code and number) designations perforated.
A_ through G_ (terminating office code and number) designations perforated.
CP0, 1; 4DG (7-digit code dialed) designations perforated.
OD or AD (operator or automatically identified originating call) designations perforated.
RG_, RN_ (recorder group and number) designations perforated.
ORC_ (originating rate class) designations perforated.
OIT_, OIN_ (office index tens and units number) designations perforated.
MBI4,7 (message billing index number) designations perforated.◖

8 Momentarily operate RL key.

All lamps extinguished.

9 Restore all keys and switches not required in next test.

C. Denied Code

6 Operate keys and set switches in accordance with Test Chart ◗Test 32.◖

7 Momentarily operate ST key.

◗TRL, BI_ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, PRL, OTK, TTK, MBK, 2L or 4L, ABX, DNC designations perforated.
OA_ through OG_ (originating office code and number) designations perforated.
A_ through G_ (terminating office code and number) designations perforated.
CP0, 1; 4DG (7- digit code dialed) designations perforated.

STEP	ACTION	VERIFICATION
		OD or AD (operator or automatically identified originating call) designations perforated.
		RG_, RN_ (recorder group and number) designations perforated.
		ORC_ (originating rate class) designations perforated.
		OIT_, OIN_ (office index tens and units number) designations perforated.
		TRT2,7; TRU0, 1 (terminating rate treatment 91) designations perforated.
		MBL (message billing index number) designations perforated.◀
8	Momentarily operate RL key.	All lamps extinguished.
9	Restore all keys and switches not required in next test.	

D. Vacant Terminating Code

STEP	ACTION	VERIFICATION
6	Operate keys and set switches in accordance with Test Chart ▶Test 33.◀	
7	Momentarily operate ST key.	▶TRL, BL_ lamps lighted.
		Trouble record taken.
		TVT, BI0, or BI1, PRL, OTK, TTK, MBK, 2L or 4L, ABX, VTC designations perforated.
		OA_ through OG_ (originating office code and number) designations perforated.
		A_ through G_ (terminating office code and number) designations perforated.
		CP0, 1; 4DG (7- digit code dialed) designations perforated.
		OD or AD (operator or automatically identified originating call) designations perforated.
		RG_, RN_ (recorder group and number) designations perforated.
		ORC_ (originating rate class) designations perforated.
		OIT_, OIN_ (office index tens and units number) designations perforated.
		TRT2, 7; TRU4, 7 (terminating rate treatment 90) designations perforated.
		MBL (message billing index number) designations perforated.◀
8	Momentarily operate RL key.	All lamps extinguished.
9	▶Repeat Step 6 through 8, as required for Test 34.◀	

STEP	ACTION	VERIFICATION
10	Restore all keys and switches not required in next test.	

E. Recorder Group Check Failure

6	Operate keys and set switches in accordance with Test Chart ◆Test 35.◆	
7	Momentarily operate ST key.	◆TRL, BI_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, ROP1 designations perforated. PRL designation **not** perforated. OA_ through OG_ (originating office code and number) designations perforated. A_ through K_ (terminating area code, if required, terminating office code and number) designations perforated. CP0, 1 or CP0, 7; 4DG (7- or 10-digit code dialed) designations perforated. OD or AD (operator or automatically identified originating call) designations perforated. RG_, RN_ (recorder group and number) designations perforated indicating incorrect recorder group number for originating code selected.
8	Momentarily operate RL key.	All lamps extinguished.
9	◆Repeat Steps 6 through 8, as required for Test 36.◆	
10	Restore all keys and switches not required in next test.	

F. Match Check of Office Codes

6	Operate keys and set switches in accordance with Test Chart ◆Test 37.◆	
7	Momentarily operate ST key.	◆TRL, BI_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, ROP1 designations perforated. PRL designation **not** perforated. OA_ through OG_ designations perforated indicating **calling** number same as **called** number. A_ through G_ designations perforated indicating **called** number same as **calling** number.◆
8	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION

9   Restore all keys and switches not required in next test.

G.   Vacant Originating Code

6   Operate keys and set switches in accordance with Test Chart ▶Test 38.◀

7   Momentarily operate ST key.

▶TRL, BI_ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, ROP, ROP1 designations perforated.
PRL designation *not* perforated.◀

8   Momentarily operate RL key.

All lamps extinguished.

9   ▶Repeat Steps 6 through 8, as required for Test 39.◀

10   Restore all keys and switches not required in next test.

H.   Terminating Area Cross Test

6   Operate keys and set switches in accordance with Test Chart ▶Test 40.◀

7   Insert make-busy plug into BIMB_ jack of billing indexer under test.

8   At billing indexer frame—
Connect ground to terminal 20 of ICB_ terminal strip.

9   At MTF—
Momentarily operate ST key.

▶TRL, BI_ lamps lighted.
Trouble record taken.
TVT, BI0 and BI1, TS, PRL designations perforated.
TAR0, TAR3 designations perforated.
OTK designation *not* perforated.◀

10   Momentarily operate RL key.

All lamps extinguished.

11   At billing indexer frame—
Remove ground connection from terminal 20 of ICB_ terminal strip.

12   At MTF—
Remove make-busy plug from BIMB_ jack.

13   Restore all keys and switches not required in next test.

STEP	ACTION	VERIFICATION

I. False Area Code

6   Operate keys and set switches in accordance with Test Chart ▶Test 41.◀ .

7   Momentarily operate ST key.

▶TRL, BI‗ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, OTK designations perforated.
PRL designation **not** perforated.
OA‗ through OG‗ (orignating office code and number) designations perforated.
A‗ through K‗ (terminating area code, if required, terminating office code and number) designations perforated.◀
If false area codes are arranged to give VTC indication—
VTC designation perforated.
If false area codes are arranged to give DNC indication—
DNC designation perforated.
If FAC relay is not used and free call diversion is provided—
MBI4, 7 (message billing index 0) designations perforated.
If FAC relay is not used and free call diversion is not provided—
MBI2, 7 (message billing index 9) designations perforated.

8   Momentarily operate RL key.

All lamps extinguished.

9   Restore all keys and switches not required in next test.

J. Vacant Rate Class

6   Operate keys and set switches in accordance with Test Chart ▶Test 42.◀

7   Momentarily operate ST key.

▶TRL, BI‗ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, ROP, ROP1 designations perforated.◀

8   Momentarily operate RL key.

All lamps extinguished.

9   Restore all keys and switches not required in next test.

STEP	ACTION	VERIFICATION

K. Operator Error

6	Operate keys and set switches in accordance with Test Chart ▶Test 43.◀	
7	Momentarily operate ST key.	▶TRL, BL_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, ROP, ROPI designations perforated.◀
8	Momentarily operate RL key.	All lamps extinguished.
9	Restore all keys and switches not required in next test.	

L. Trouble Detection of False Grounds

6	Operate keys and set switches in accordance with Test Chart ▶Test 44.◀	
7	Insert make-busy plug into BIMB_ jack of billing indexer under test.	
8	Insert make-busy plug into TVMB_ jack associated with selected transverter.	
9	At billing indexer frame— Connect ground for first lead as indicated in Table A.	
10	At MTF— Momentarily operate ST key.	▶TRL, BL_ lamps lighted. Trouble record taken. TVT, BI0 or BI1 designations perforated. OA_ through OG_ (originating office code and number) designations perforated. A_ through K_ (terminating area code, if required, terminating office code and number) designations perforated.◀ Designations perforated as indicated in Table A for lead under test.
11	Momentarily operate RL key.	All lamps extinguished.
12	At billing indexer frame— Remove ground connection from terminal strip terminal.	
13	Connect ground for next lead as indicated in Table A.	
14	Repeat Steps 10 through 13 for each lead in Table A.	

STEP	ACTION	VERIFICATION

15   After completing last test—
Remove ground connection from terminal strip terminal.

16   At MTF—
Remove make-busy plug from TVMB_ jack associated with selected transverter.

17   Remove make-busy plug from BIMB_ jack of billing indexer under test.

M. Timing Test

1   At MTF—
Insert make-busy plug into BIMB_ jack of billing indexer under test.

→TABLE A←

LEAD UNDER TEST	AT BILLING INDEXER CONNECT GROUND TO TERMINAL STRIP TERMINAL		DESIGNATIONS PERFORATED
	ICC_	ICB_	
TC	20	—	XIN2
2L	21	—	XIN2
4L	22	—	XIN2
PRL	23	—	XIN1
ROP	24	—	XIN1
MB10	30	—	XIN3
MB11	31	—	XIN3
MB12	32	—	XIN3
MB14	33	—	XIN3
MB17	34	—	XIN3
OIN0	40	—	XIN3
OIN1	41	—	XIN3
OIN2	42	—	XIN3
OIN4	43	—	XIN3
OIN7	44	—	XIN3
OIT0	00	—	XIN3
OIT1	01	—	XIN3
OIT2	02	—	XIN3
DNC	—	01	XIN2
VTC	—	02	XIN2

STEP	ACTION	VERIFICATION
2	At billing indexer frame— Manually operate and hold BIB relay; **start timing.**	In 6 to 12 seconds— TM relay operated. Major alarm sounds.
3	Release BIB relay.	
4	At MTF— Momentarily operate AR key.	Major alarm silenced.
5	Remove make-busy plug from BIMB_ jack.	

N. Transverter Preference

1	At MTF— Insert make-busy plug into BIMB_ jack of billing indexer to be tested.	
2	At billing indexer frame— Block operated IP0 relay.	ICA0, ICB0, ICC0 relays operated.
3	Momentarily operate any intermediate IP_ relay.	Intermediate ICA_, ICB_, ICC_ relays not operated.
4	Momentarily operate last IP_ relay.	Last ICA_, ICB_ ICC_ relays not operated.
5	Remove blocking tool from IP0 relay.	ICA0, ICB0, ICC0 relays released.
6	Block operated any intermediate IP_ relay.	Intermediate ICA_, ICB_, ICC_ relays operated.
7	Momentarily operate last IP_ relay.	Last ICA_, ICB_ ICC_ relays not operated.
8	Remove blocking tool from IP_ relay.	Intermediate ICA_, ICB_, ICC_ relays released.
9	Momentarily operate last IP_ relay.	Last ICA_, ICB_, ICC_ relays operated while last IP_ relay operated.
10	At MTF— Remove make-busy plug from BIMB_ jack.	

O. Forced Four-Line Entry

6	At MTF— Operate keys and set switches in accordance with Test Chart ▶Test 45.◀	
7	Momentarily operate ST key.	▶TRL, BI_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, PRL, OTK, TTK, MBK, 4L designations perforated. OA_ through OG_ (orignating office code and number) designations perforated. A_ through G_ (terminating office code and

STEP	ACTION	VERIFICATION

number) designations perforated.

CP0, 1 or CP0, 7; 4DG (7-digit code dialed) designations perforated.

OD or AD (operator or automatically identified originating call) designations perforated.

RG_, RN_ (recorder group and number) designations perforated.

LCD_ or ACD, WKC (local code or area code dialed) designation perforated.

ORC_ (originating rate class) designations perforated.

OIT_, OIN_ (office index tens and units number) designations perforated.

MBL_ (message billing index number) designations perforated.◀

STEP	ACTION	VERIFICATION
8	Momentarily operate RL key.	All lamps extinguished.
9	Restore all keys and switches not required in next test.	

P. Faulty Trunk Idenification

STEP	ACTION	VERIFICATION
6	Operate keys and set switches in accordance with Test Chart ▶Test 46.◀	
7	Momentarily operate ST key.	▶TRL, BI_ lamps lighted. Trouble record taken. TVT, BI0 or BI1, PRL, 4L, ITTR designations perforated. TAR0, OIN4, 7; MBI0, 1 designations perforated. P designation *not* perforated.◀
8	Momentarily operate RL key.	All lamps extinguished.
9	Restore all keys and switches not required in next test.	

Q. Information Code—Home Area and Foreign Area (411 and NPA 411)

STEP	ACTION	VERIFICATION
6	Operate keys and set switches in accordance with Test Chart ▶Test 47.◀	
7	Momentarily operate ST key.	▶TRL, BI— lamps lighted. Trouble record taken. TVT, BI0, or BI1, PRL, OTK, 4L designations perforated. OA_ through OG_ (originating office code and number) designations perforated. A_ through F_ (teriminating area code, if required, terminating office code) designations

STEP	ACTION	VERIFICATION

perforated.
CP0, 1 or CP0, 7; LST (3- or 6-digit code dialed) designations perforated.
OD or AD (operator or automatically identified originating call) designations perforated.
RG_, RN_ (recorder group and number) designations perforated.
LCD_ or ACD, WKC (local code or area code dialed) designation perforated.
ORC_ (originating rate class) designations perforated.
OIT_, OIN_ (office index tens and units number) designations perforated.
MBI2, 7 (message billing index number) designations perforated.◀

8 Momentarily operate RL key. All lamps extinguished.

9 ▶Repeat Steps 6 through 8, as required for Test 48.◀

10 Restore all keys and switches not required in next test.

R. ▶Directory Assistance Charging (411 and 555-1212)

6 Operate keys and set switches in accordance with Test Chart Test 49.

7 Momentarily operate ST key. TRL, BI_ lamps lighted.
Trouble record taken.
TVT, BI0 or BI1, PRL, OTK, 2L designations perforated.
OA_ through OG_ (originating office code and number) designations perforated.
A_ through F_ (terminating office code and terminating number, if required) designations perforated.
CP0, 1; LST (3- or 7-digit code dialed) designations perforated.
OD or AD (operator or automatically identified originating call) designations perforated.
RG_, RN_ (recorder group and number) designations perforated.
LCD_, WKC (local or home NPA information code dialed) designation perforated.
ORC_ (originating rate class) designations perforated.
OIT_, OIN_ (office index tens and units number) designations perforated.
MBI2, 4 (message billing index number) designations perforated.◀

STEP	ACTION	VERIFICATION
8	Momentarily operate RL key.	All lamps extinguished.
9	Repeat Steps 6 through 8, as required for Test 50.	
10	Restore all keys and switches.◀	

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) ▶For non-DDD calls, record an assigned terminating office code and any four numericals (0-9) for the A_ through G_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(b) For DDD calls, record an assigned foreign area code, a terminating office code, and any four numericals for the A_ through K_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(c) Record an originating office code for CNA_, CNB_, and CNC_ (A_, B_, and C_ digits) in the DIGITS-CODE(s) AND NUMBER (CALLING NUMBER) columns.

(d) Record the recorder number associated with the selected originating office code in the ITC- RN_ column.

(e) Record the originating rate class number associated with the selected originating office code in the ORC_ column.

(f) Record CP1 for termination for a local office code or CP7 for termination for a foreign area code in the CP1/CP7 column.

(g) Record AD for an automatically identified call or OD for an operator identified call in the AD/OD column.

(h) If test is for a 3- or 7-digit call in terminating area 0, do not record any indication in the LCD_/ACD column.

(i) If test is for other than a 3- or 7-digit call in terminating area 0, record LCD1 for a 3- or 7-digit call in local terminating area 1, LDC2 for a 3- or 7-digit call in local terminating area 2, or ACD for a 10-digit foreign area call in the LCD_/ACD column.

5.02 *Test A*

(1) Determine from local office records the following:

(a) The foreign area codes normally received from the outgoing sender.

(b) The terminating office code (called number) for each used numerical of each office code digit.

(c) The four numericals associated with the terminating office code (called number) for each 2-out-of-5 combination.

(d) The originating office code (calling number) for each used numerical of each office code digit that will also check each office index.

(2) For Tests 1 through 30, apply (a) or (b) through (i) of 5.01.

5.03 *Test B*

(1) Record a terminating office code and four numericals for the A_ through G_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns that is used for a free call in the CAMA office.

(2) Apply (c) through (i) of 5.01.

5.04 *Test C*

(1) Record a terminating office code and four numerical for A_ through G_ digits in the

DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns that is used for a denied code in the CAMA office.

(2) Apply (c) through (i) of 5.01.

5.05 Test D

(1) For Test 33, record an assigned terminating office code and number for the A_ through G_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns, then record an incorrect terminating area LCD1, LCD2, or nothing) in the LCD_/ACD column.

(2) Apply (c) through (g) of 5.01.

(3) For Test 34, record a vacant terminating office code and number for the A_ through G_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(4) Apply (c) through (i) of 5.01.

5.06 Test E

(1) For Tests 35 and 36, record a number for a recorder that is **not** in the proper recorder group for the originating code selected in the ITC-RN_ column.

(2) Apply (a) or (b), (c), (e) through (i) of 5.01.

5.07 Test F

(1) Record an assigned terminating office code for the A_ through C_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns, then record the identical code for the originating office code for CNA_, CNB_, and CNC_, (A_, B_, and C_ digits) in the DIGITS-CODE(s) AND NUMBER (CALLING NUMBER) columns.

(2) Apply (c) through (f), (h) and (i) of 5.01.

5.08 Test G

(1) For Tests 38 and 39, record a vacant originating office code for the CNA_, CNB_, and CNC_ digits in the DIGITS-CODE AND NUMBER (CALLING NUMBER) columns.

(2) Apply (a) or (b), (d) through (i) of 5.01.

5.09 Test H

(1) Record an assigned foreign area code, terminating office code, and number outside of the three local areas for the A_ through K_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(2) Apply (c) through (g) of 5.01.

5.10 Test I

(1) Record a false area code, a terminating office code, and number for the A_ through K_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(2) Apply (c) through (g) of 5.01.

5.11 Test J

(1) Record an assigned originating office code for the CNA_, CNB_, and CNC_ digits in the DIGITS-CODE AND NUMBER (CALLING NUMBER) columns.

(2) Record an ORC_ number **not** associated with the assigned originating office code selected in (1).

(3) Apply (a) or (b), (c), (d), (f) through (i) of 5.01.

5.12 Test K

(1) Apply (a) or (b), (d) through (f), (h) and (i) of 5.01.

5.13 Test L

(1) Apply (a) or (b), (c) through (i) of 5.01.

5.14 Test 0

(1) Record a terminating office code and number that requires 2-line bulk billing for the A_ through G_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.

(2) Apply (c) through (i) of 5.01.

5.15 Test P

(1) Record an assigned faulty trunk identification number for the CNA_, CNB_, and CNC_ digits in the DIGITS-CODE AND NUMBER (CALLING NUMBER) columns.

(2) Record (a) or (b), (d) through (f), (h) and (i) of 5.01.

5.16 Test Q

(1) For Test 47, apply (c) through (e), (g) through (i) of 5.01.

(2) For Test 48, record an assigned foreign area code for the A_ through C_ digits in the DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) columns.
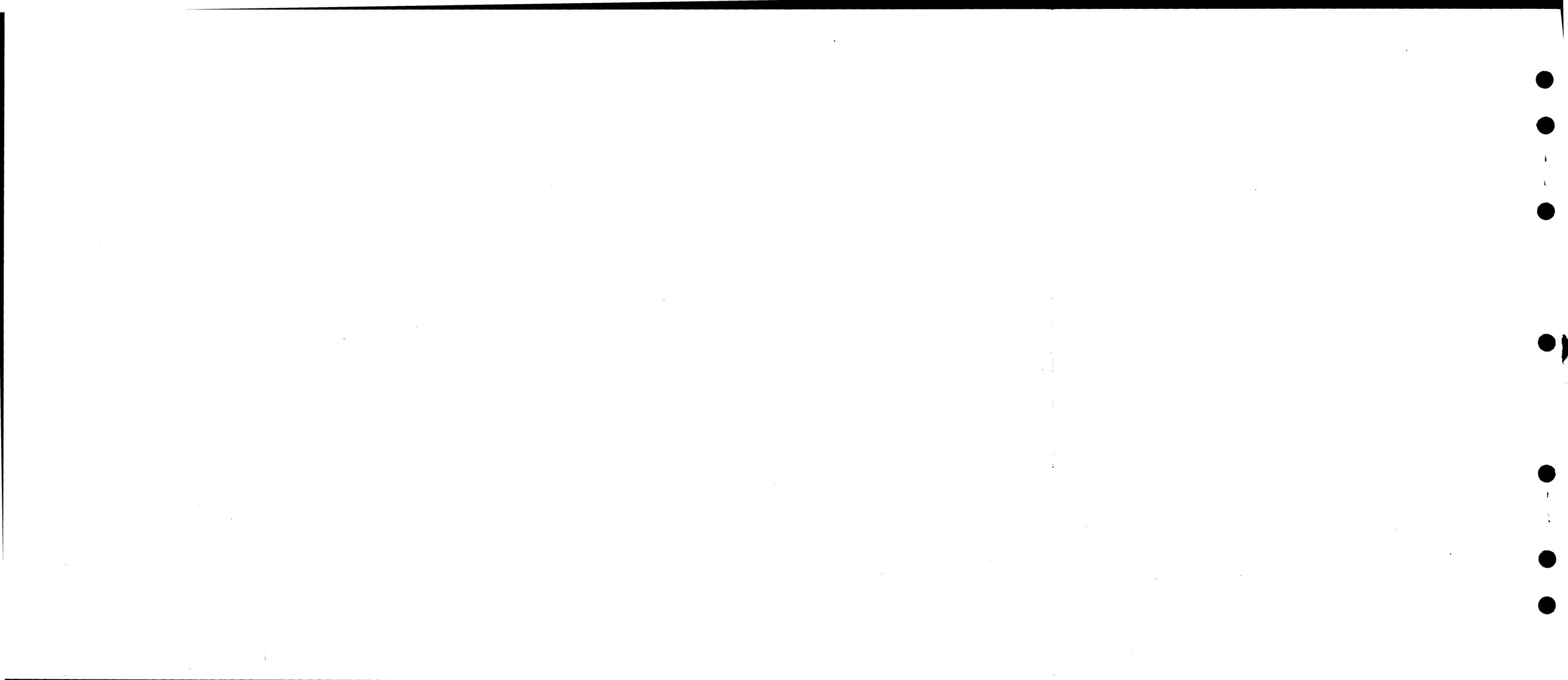
(3) Apply (c) through (e), (g) through (i) of 5.01.

5.17 Test R

(1) For Tests 49 and 50, apply (c) through (e), (g) through (i) of 5.01.

→TEST CHART←

TEST	TEST TITLE	TEST NO.	DIGITS – CODE(S) AND NUMBER (CALLED NUMBER)										DIGITS – CODE AND NUMBER (CALLING NUMBER)							ITC–RN–	ORC–	CP1/CP7	4DG/LST	AD/OD	LCD–/ACD	MISCELLANEOUS KEYS AND/OR SWITCHES	TEST NO.	TEST
			A	B	C	D	E	F	G	H	J	K	CNA	CNB	CNC	CND	CNE	CNF	CNG									
A	Regular Call	1														1	3	6	0				4DG				1	A
		2														3	6	0	7				4DG				2	
		3														6	0	7	1				4DG				3	
		4														0	7	1	3				4DG				4	
		5														7	1	3	6				4DG				5	
		6														1	2	3	4				4DG				6	
		7														1	2	3	4				4DG				7	
		8														1	2	3	4				4DG				8	
		9														1	2	3	4				4DG				9	
		10														1	2	3	4				4DG				10	
		11														1	2	3	4				4DG				11	
		12														1	2	3	4				4DG				12	
		13														1	2	3	4				4DG				13	
		14														1	2	3	4				4DG				14	
		15														1	2	3	4				4DG				15	
		16														1	2	3	4				4DG				16	
		17														1	2	3	4				4DG				17	
		18														1	2	3	4				4DG				18	
		19														1	2	3	4				4DG				19	
		20														1	2	3	4				4DG				20	
		21														1	2	3	4				4DG				21	
		22														1	2	3	4				4DG				22	
		23														1	2	3	4				4DG				23	
		24														1	2	3	4				4DG				24	
		25														1	2	3	4				4DG				25	
		26														1	2	3	4				4DG				26	
		27														1	2	3	4				4DG				27	
		28														1	2	3	4				4DG				28	

→TEST CHART (Cont)←

TEST	TEST TITLE	TEST NO.	A	B	C	D	E	F	G	H	J	K	CNA	CNB	CNC	CND	CNE	CNF	CNG	ITC—RN—	ORC—	CP1/CP1	4DG/LST	AD/OD	LCD—/ACD	MISCELLANEOUS KEYS AND/OR SWITCHES			TEST NO.	TEST
A (cont)		29														1	2	3	4				4DG						29	
		30														1	2	3	4				4DG						30	
B	Free Call	31								▓	▓	▓				1	2	3	4				4DG			FC			31	B
C	Denied Code	32								▓	▓	▓				1	2	3	4				4DG			DNC	ROP		32	C
D	Vacant Terminating Code	33								▓	▓	▓				1	2	3	4				4DG			VTC			33	D
		34								▓	▓	▓				1	2	3	4				4DG			VTC			34	
E	Recorder Group Check Failure	35														1	2	3	4				4DG						35	E
		36														1	2	3	4				4DG			RMB			36	
F	Match Check of Office Codes	37				1	2	3	4	▓	▓	▓				1	2	3	4				4DG	OD		ROP			37	F
G	Vacant Originating Code	38														1	2	3	4				4DG						38	G
		39														1	2	3	4				4DG						39	
H	Terminating Area Cross Test	40														1	2	3	4				4DG		ACD				40	H
I	False Area Code	41														1	2	3	4				4DG		ACD				41	I
J	Vacant Rate Class	42														1	2	3	4				4DG						42	J
K	Operator Error	43											0	1	9	1	2	3	4				4DG	OD					43	K
L	Trouble Detection of False Grounds	44														1	2	3	4				4DG						44	L
O	Forced 4-Line Entry	45								▓	▓	▓				1	2	3	4				4DG			MDLC			45	O
P	Faulty Trunk Identification	46														1	2	3	4				4DG	OD		ROP	TI1		46	P
Q	Information Code — Home Area	47	4	1	1	▓	▓	▓	▓	▓	▓	▓				1	2	3	4			CP1	LST						47	Q
	Foreign Area	48				4	1	1	▓	▓	▓	▓				1	2	3	4			CP1	LST						48	
R	Directory Assistance Charging	49	4	1	1	▓	▓	▓	▓	▓	▓	▓				1	2	3	4			CP1	LST						49	R
		50	5	5	5	1	2	1	2	▓	▓	▓				1	2	3	4			CP1	LST						50	