

## CAMA LINE OBSERVING NUMBER MATCHING CIRCUIT NO. 5 CROSSBAR OFFICES

### 1. GENERAL

1.01 This section describes a method of testing line observing number matching circuits in No. 5 crossbar offices arranged for CAMA by using the master test control circuit.

1.02 The tests covered are:

- A. Regular Call - Nonobserved: This test checks that when a match is not made with any of the to-be-observed numbers and the calling number, the line observing number matching circuit gives the transverter a nonobserved signal.
- B. Regular Call - Observed: This test checks that when a match is made with any of the to-be-observed numbers and the calling number, the line observing number matching circuit gives the transverter an observed signal.
- C. Registration Error: This test checks that when more or less than two register relays are operated for any digit, the line observing number matching circuit gives the transverter a registration error signal.
- D. Transverter Preferences: This test checks that the line observing number matching circuit serves transverters in accordance with the preference chain.

1.03 Local instructions should be followed with reference to recording any register operations caused by performing these tests.

1.04 Lettered Steps: A letter a, b, c, etc, added to a step number in Parts 3 or 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 series of lettered steps should be made are 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

#### Tests A Through C

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

#### Tests C and D

2.02 No. 322A (make busy) plugs as required.

#### Test D

2.03 Test receiver, No. 716C or equivalent receiver, attached to a W2AB cord equipped with two No. 360A tools (2W21A cord), one KS-6278 connecting clip, and one No. 411 tool (to apply battery).

### 3. PREPARATION

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
<u>Preparation for Tests A Through C</u>		
1	At master test frame - Restore all keys	
2	Operate RL key momentarily	All lamps extinguished
3	Operate TVTC, MT- keys to select transverter	
4	Operate A- through K- keys to record working national area code, terminating code, and four numericals	
5a	If national area code is not necessary for particular test - Operate A- through G- or H- keys to record terminating code and numericals	
6	Operate LCD1, LCD2, ACD key, or none, as required, for terminating code used in Step 4 or 5a	

SECTION 218-189-501

4. METHOD

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
<u>A. Regular Call - Nonobserved</u>		
7	Operate CNA- through CNG- keys to set up working originating number that is not being observed on line observing number matching circuit	
8	Operate ITC-RN-, ORC- keys for originating code used	
9	Operate REC key	
10	Operate ST key momentarily	Trouble record card perforated
11	Operate RL key momentarily	All lamps extinguished Check trouble record card for NLOO, NLO1, NMK perforations
12	Restore keys not required for next test	
<u>B. Regular Call - Observed</u>		
7b	If desired - At line observing number matching frame - Select number already set up for observation	
8c	If no numbers are set up or you do not wish to use number already set up - At line observing number matching frame - Set up working number	
9	At master test frame - Operate CNA- through CNG- keys to set up same number as in Step 7b or 8c	
10	Operate ITC-RN-, ORC- keys for originating code used	
11	Operate REC key	
12	Operate ST key momentarily	Trouble record card perforated
13	Operate RL key momentarily	All lamps extinguished Check trouble record card for LOO, LO1, NMK perforations
14	Restore ITC-RN-, ORC-, REC, CNA- through CNG- keys	
15	Restore keys not required for next test	
16c	If no numbers are set up or you do not wish to use number already set up - At line observing number matching frame - Remove number set up for test purposes	
<u>C. Registration Error</u>		
7	Operate CNA- through CNG- keys to set up working originating number that is not being observed on line observing number matching circuit	

Note: Do not use 0, 7, 8, or 9 in the units digit under CNG-key.

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
8	Operate ITC-RN-, ORC- keys for originating code used	
9	Insert make-busy plug into NMBD and NMB1 jacks of line observing number matching circuit	
10	At line observing number matching frame - Parts 0 and 1 - Block operated UA7 relays	
11	At master test frame - Operate LOMO key	
12	Operate ST key momentarily	Trouble record card perforated
13	Operate RL key momentarily	All lamps extinguished Check trouble record card for RE0, NMF perforations
14	Restore LOMO key	
15	Operate LOM1 key	
16	Operate ST key momentarily	Trouble record card perforated
17	Operate RL key momentarily	All lamps extinguished Check trouble record card for RE1, NMF perforations
18	Remove blocking tools	
19	Remove make-busy plugs	
20	Restore keys not required for next test	

#### D. Transverter Preference

1	At master test frame - Insert make-busy plug into NMBO jack of line observing number matching circuit	
2	At line observing number matching frame Part 0 - Block operated PO relay	CIO, CIAO relays operated
3	Apply battery momentarily to lower winding terminal of any P- relay except PO	P- relay operated momentarily CI-, CIA- relays not operated
4	Remove blocking tool	CIO, CIAO relays released
5	Block operated last P- relay	Last CI-, CIA- relays operated
6	Apply battery momentarily to lower winding terminal of PO relay	PO relay does not operate
7	Apply battery momentarily to lower winding terminal of any P- relay except last	P- relay does not operate
8	Block operated any P- relay except last P- relay	CI-, CIA- relays associated with blocked P- relay are operated

**SECTION 218-189-501**

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
9	Remove blocking tool from last P- relay	Last CI-, CIA- relays released
10	Block operated PO relay	CIO, CIA0-relays operated
11	Remove blocking tool from P- relay	CI-, CIA- relays released
12	Remove blocking tool from PO relay	CIO, CIA0 relays released
13	At master test frame - Remove make-busy plug	
14	Insert make-busy plug into NMB1 jack	
15	At line observing number matching frame - Part 1 - Block operated PO relay	CIO, CIA0 relays operated
16	Repeat Steps 3 through 13 for Part 1	