

CALL COUNT PROCESS CONTROL STORAGE AND REGISTER CIRCUIT

TESTS

NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of making tests of the call count process control storage and register circuit in No. 1 crossbar offices arranged for AMA.

1.02 This section is reissued to revise Tests A, B, and D to include testing of call count process storage and register circuits equipped with five call count process registers. This reissue does not affect the Equipment Test List.

1.03 The tests covered are:

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A. Seizure: This tests checks that the circuit functions properly and the associated register is scored on all good initial entries by the transverters.	2
B. Lockout Features: This test checks that the B ₋ relay and C ₋ relay preference chains function properly.	2
C. C Relay Check: This test checks that not more than one C ₋ relay is operated at any one time.	3
D. Register Transfer: This test checks the register transfer features.	3

1.04 Tests covered in this section require the start leads from all transverters be disabled.

1.05 Tests covered in this section should not be performed during the time that the master timer will be engaged for the 3 a.m. entry.

1.06 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.

1.07 Local instructions should be followed in reporting register operations caused by performing these tests.

2. APPARATUS

Tests A Through C

2.01 Blocking and insulating tools as required. Use and apply in accordance with Section 069-020-801.4

Test D

3.02 716C receiver, attached to a W2AB cord, equipped with two 360A tools (W21A cord), a KS-6278 connecting clip and a 411A tool (used to apply ground to relay contacts).

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3. PREPARATION

STEP	ACTION	VERIFICATION
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All Tests

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|---|---------------------------------------------------------------------|--|
| 1 | At each transverter circuit insulate contacts 1 and 2T of P5 relay. | |
|---|---------------------------------------------------------------------|--|

4. METHOD

STEP	ACTION	VERIFICATION
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A. Seizure

- | | | |
|---|-----------------------------------------------------------------------------------------------------|--|
| 2 | At call count process control storage and register circuit—
Block E relay nonoperated. | |
| 3 | Momentarily manually operate A ₋ relay associated with the highest numbered transverter. | |

◆ Register associated with position of RT selector scored.

Note:

- RT selector setting—
- Position 1 associated register 0
- Position 2 associated register 1
- Position 3 associated register 2
- Position 4 associated register 3
- If provided —
- Position 5 associated register 4.◆

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|----|-----------------------------------------------------------------------------------------|--|
| 4 | Remove blocking tool from E relay. | |
| 5 | Repeat Steps 2 through 4 until all transverters have been tested. | |
| 6a | If no other tests are to be made at this time—
Remove insulators inserted in Step 1. | |

B. Lockout Features

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|---|-------------------------------------------------------------------------------------------------|--|
| 2 | At call count process control storage and register circuit—
Block E relay nonoperated. | |
| 3 | Momentarily manually operate A ₋ relay associated with highest numbered transverter. | |

◆ Register associated with position of RT selector scored.

Note:

- RT selector setting—
- Position 1 associated register 0
- Position 2 associated register 1
- Position 3 associated register 2
- Position 4 associated register 3

STEP	ACTION	VERIFICATION
		If provided— Position 5 associated register 4.◀
4	Momentarily manually operate A _n relay associated with next highest numbered transverter.	▶A _n relay locks operated.◀
5	Remove blocking tool from E relay.	Register scored (see note after Step 3.) ▶A _n relay releases.◀
6	Repeat Steps 2 through 5, using the A _n relay previously operated in Step 4 as the highest relay referred to in Step 3, until all circuits have been tested.	
7	Block E relay nonoperated.	
8	Momentarily manually operate A0 relay.	Register scored (see note after Step 3.)
9	Momentarily manually operate each A _n relay in order (from lower numbered to higher numbered).	A _n relays lock operated.
10	Remove blocking tool from E relay.	Register scores once for each A _n relay that was locked operated. A _n relays release in sequence.
11a	If no other tests are to be made at this time— Remove insulators inserted in Step 1.	
C. C Relay Check		
2	At call count process control storage and register circuit— Insulate contact 6B of B0 relay.	
3	Momentarily operate all A _n relays.	Register scored once. A _n relays locked except A0.
4	Remove insulator from B0 relay.	Register scores once for each A _n relay that was locked. A _n relays release in sequence.
5a	If no other tests are to be made at this time— Remove insulators inserted in Step 1.	
D. Register Transfer		
2	▶At call count process control storage and register circuit— Observe and record position setting of RT selector switch.	

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STEP	ACTION	VERIFICATION
3	Using 716C receiver, momentarily connect ground to contact 10M of RL relay.	RT selector restores to position 1.
4	Using 716C receiver, momentarily connect ground to contact 8B of RL relay.	Register 0 scored.
5	Using 716C receiver, momentarily connect ground to contact 7B of RL relay.	RT selector advances to next position.
6	Using 716C receiver, momentarily connect ground to contact 8B of RL relay.	Register associated with next position of RT selector scored. <i>Note:</i> RT selector setting— Position 1 connects register 0. Position 2 connects register 1. Position 3 connects register 2. Position 4 connects register 3. If provided— Position 5 connects register 4.
7	Repeat Steps 5 and 6 until RT selector restores to position 1.	
8	Using 716C receiver, momentarily connect ground to contact 7B of RL relay until RT selector returns to position which was recorded in Step 2.	
9	At transverters— Remove insulator from contacts 1 and 2T of P5 relay.	