

CAMA CALLS WAITING SIGNAL CIRCUIT

TESTS

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing the CAMA calls waiting signal circuit SD-26046-01 in No. 5 crossbar offices.

1.02 This section is reissued for the reasons listed below. Since this reissue is a general revision, no revision arrows have been used to denote significant changes. This reissue does not affect Equipment Tests Lists.

- (a) To delete the reference to option x which is rated manufactured discontinued.

Note: The lamp sequence of this circuit is changed to agree with CAMA Crossbar Tandem and No. 4 Toll CAMA Systems. The lamp sequence of white, green, red is now manufactured discontinued and the lamp sequence of green, white, red is now standard. This practice is written for the green, white, and red sequence.

- (b) To correct an error in Step 22, Test B.

1.03 The tests covered are:

A. One or More Calls Waiting Signal:

This test checks that, when all CAMA positions are busy, the calls waiting lamp lights and remains lighted as long as at least one CAMA sender is waiting for a position.

B. Four or Six Calls Waiting Signals:

This test checks that when all CAMA positions are busy the calls waiting lamps light when four and six CAMA senders, respectively, are waiting for positions. It also checks that the calls waiting lamps are extinguished when five and three CAMA senders, respectively, are waiting for positions.

1.04 Tests A and B require verifications in the switchboard room.

1.05 Test A requires that all CAMA positions be made busy momentarily and Test B requires that four CAMA senders be made busy.

1.06 Tests A and B shall be performed during periods of light load.

1.07 Notify the CAMA office prior to performing these tests.

1.08 **Lettered Steps:** A letter a, b, c, etc, added to a step number in Part 3 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 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. When a condition does not apply, all steps designated by that letter should be omitted.

1.09 Local instructions should be followed for recording and reporting any register operations caused by performing these tests.

2. APPARATUS

Test A

2.01 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 639A (relay contact connector) tool, and one 651D (relay contact connector holder) tool (used for making test connection between ground terminal and fixed contact of a wire-spring-type relay).

2.02 Testing cords, 893 cords, as required, each 6 feet long, equipped with two 360A tools

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SECTION 218-188-501

(1W13B cord), and two 624B tools (used for making test connections between terminal strip terminals).

Tests A and B

2.03 Blocking and insulating tools, as required.
Use and apply tools, as covered in Section 069-131-811.

Test B

2.04 Two testing cords, 893 cords, each 6 feet long, equipped with two 360A tools (1W13B cord), one 624 tool, one 639A (relay contact connector) tool, and one 651D (relay contact connector holder) tool (used for making test connections between terminal strip terminals and wire-spring-type relays).

3. METHOD

| STEP | ACTION | VERIFICATION |
|------|--------|--------------|
|------|--------|--------------|

A. One or More Calls Waiting Signal

Note: Refer to paragraphs 1.02(a), 1.06.

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|----|--|--|
| 1a | If position link frame MB lamp is lighted indicating that one or more positions have been made busy— At position link frame— Block nonoperated P0 relays in all position units having operated MB switches. | |
| 2a | Restore all operated MB switches. | MB lamp extinguished. |
| 3 | At position link frame— Connect ground to fixed contact 11 of SP00 relay. | |
| 4 | Connect terminals 18 and 53 of position unit A terminal strips associated with all occupied positions. | |
| 5 | Momentarily operate MB switch for any position. Caution: While MB switch is operated all positions will appear busy to service calls. | In switchboard room— Green calls waiting lamp lights. |
| 6 | At position link frame— Remove test connections from A terminal strips. | |
| 7a | If position link frame MB lamp is lighted indicating that one or more positions have been made busy— Operate MB switches that were restored in Step 2a. | MB lamp lights. |
| 8a | Remove blocking tools from P0 relays. | |

| STEP | ACTION | VERIFICATION |
|---|--|--|
| 9 | Remove test connection from SP00 relay. | In switchboard room— Green calls waiting lamp extinguished. |
| Note: The calls waiting lamp remains lighted as long as any SP_ relay is operated. | | |
| B. Four and Six Calls Waiting Signals | | |
| Note: Refer to paragraphs 1.02(a), 1.06. | | |
| 1 | At CAMA calls waiting circuit— Block R2, WH2 relays nonoperated. | |
| 2 | At CAMA sender frames— Insulate 4 make of PLST relay in all CAMA senders. | |
| 3 | In CAMA sender 0— Block SB relay operated. | |
| 4 | When CAMA sender 0 is idle— Insulate 1 make of PLST relay. | |
| 5 | Remove insulator from 4 make of PLST relay. | |
| 6 | Block PLST relay operated. | |
| 7 | At CAMA sender frame— In CAMA senders 1, 2— Repeat Steps 2 through 5. | At CAMA calls waiting signal circuit— WH1, R1 relays do not operate. |
| 8 | At CAMA sender frame— In CAMA sender 3— Repeat Steps 2 through 5. | At CAMA calls waiting signal circuit— WH1 relay operates. R1 relay does not operate. |
| 9 | At CAMA sender frame— In CAMA sender 4— Connect terminal C22 to fixed contact 4 of PLST relay. | At CAMA calls waiting signal circuit— WH1 relay remains operated. R1 relay does not operate. |
| 10 | At CAMA sender frame— In CAMA sender 5— Connect terminal C22 to fixed contact 4 of PLST relay. | At CAMA calls waiting signal circuit— WH2 relay remains operated. R1 relay operates. |
| 11 | At CAMA sender frame— In CAMA senders 4 and 5— Remove test connections. | At CAMA calls waiting signal circuit— WH1 relay remains operated. R1 relay releases. |
| 12 | At CAMA sender frame— In CAMA sender 3— Remove blocking tool from PLST relay. | At CAMA calls waiting signal circuit— WH1 relay releases. |

SECTION 218-188-501

| STEP | ACTION | VERIFICATION |
|------|---|--|
| 13 | Remove insulator from 1 make of PLST relay. | |
| 14 | Insulate 4 make of PLST relay. | |
| 15 | Remove blocking tool from SB relay. | |
| 16 | In CAMA senders 4, 5— Repeat Steps 8 and 12 through 15. | |
| 17a | If more than six CAMA senders are provided— Repeat Step 16 for senders 6 through 39, as required. | |
| 18 | In CAMA senders 0, 1, 2— Repeat Steps 12, 13, 15. | |
| 19 | In all CAMA senders— Remove insulators from PLST relays. | |
| 20 | At CAMA calls waiting circuit. Remove blocking tools from R2, WH2 relays. | |
| 21 | Block GN relay operated. | In switchboard room— Green calls waiting lamp lights. |
| 22 | At CAMA calls waiting signal circuit— Block WH1 relay operated, start timing. | In 3 to 5 seconds, WH2 relay operates. In switchboard room— White calls waiting lamp lights. |
| 23 | At CAMA calls waiting signal circuit— Block R1 relay operated, start timing. | In 3 to 5 seconds, R2 relay operates. In switchboard room— Red calls waiting lamp lights. |
| 24 | At CAMA calls waiting signal circuit— Remove blocking tools from GN, WH1, R1 relays. | In switchboard room— Green, white, and red calls waiting lamps extinguished. |