

**AUXILIARY SENDER LINK
MISCELLANEOUS TEST
PANEL OFFICES**

1. GENERAL

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1.01 This section describes a method of making miscellaneous tests on the auxiliary sender link circuit in panel offices.

that if a false ground exists in the GA relay circuit, the GAA relay will operate and originate a minor alarm. . . .

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1.02 This section is reissued to correct test procedures in Tests A and D. This reissue does not affect the Equipment Test List.

1.04 Test A requires actions and verifications at the sender make-busy frame and at associated auxiliary sender link frames.

1.03 The tests covered are:

1.05 When performing Test A, an auxiliary sender or an auxiliary sender link circuit will be out of service.

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A. *Make-busy Features:* The following features are checked. (1) That a make-busy plug in an auxiliary sender MB_ jack at the sender MB frame operates the corresponding AB_ relays in all link circuits associated with the same auxiliary sender. (2) That an operated AP_ relay operates the AB_ relays in the other link circuits associated with the same auxiliary sender. (3) That an operated APA_ relay operates the AB_ relays in all link circuits associated with the same auxiliary sender. (4) That an AB_ relay will not release while its link circuit is serving a call.

1.06 When performing Test B or D, access to the group of auxiliary senders by the subscriber senders will be delayed.

1.07 When performing Test C, a group of auxiliary senders will be out of service for a period of 15 to 30 seconds.

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 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.

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B. *Timed Release Feature:* This test checks that the link circuit releases itself from a call under trouble conditions and originates a minor alarm.

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

C. *All Senders Busy Time Alarm:*
This test checks that when all auxiliary senders in a group are busy for 15 to 30 seconds, the minor alarm sounds and the ASB lamp for this group of auxiliary senders lights on the sender make-busy frame.

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D. *Gate Circuit False Ground Alarm (Where Provided):* This test checks

2. APPARATUS

Tests A and C

2.01 322A (make-busy) plugs, as required.

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Tests A and D

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

Test B

2.03 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), a 624B

(terminal connector) tool and KS-6278 connecting clip (used for connecting ground to terminal strip punchings).

Test C

2.04 KS-3008 stopwatch, or equivalent.

3. METHOD

STEP	ACTION	VERIFICATION
A. Make-Busy Features		
1	At SMB— Insert make-busy plug into MB_ jack associated with an auxiliary sender.	At all associated ASL in which this sender appears— Corresponding AB_ relays operated.
2	Remove plug from MB_ jack.	All corresponding AB_ relays released.
3	Repeat Steps 1 and 2 for all other auxiliary senders to be tested.	
4	At ASL— Block nonoperated LRA relay on miscellaneous circuit for auxiliary sender link frame.	
5a	If APA_ relays are provided— Block nonoperated LR relay.	
6a	◆ Insulate 2M of APA_ relay.	
7	Block operated AP_ relay (corresponding to APA_ relay insulated in Step 6a).	Corresponding AB_ relay remains normal. At all other associated ASL— Corresponding AB_ relays operated.◆
8a	If APA_ relays are provided— Remove blocking tool from LR relay.	LR relay operated.
9a	◆ Remove insulating tool from 2M of APA_ relay.	Corresponding AB_ relay operated.◆
10	Remove blocking tool from AP_ relay.	AP_ relay released. If APA_ relays are not provided— At all other associated ASL— Corresponding AB_ relays released. If APA_ relays are provided— At all associated ASL— Corresponding AB_ relays remain operated.

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STEP	ACTION	VERIFICATION
C. All Senders Busy Time Alarm		
1	At SMB— Insert make-busy plugs into MB_ jacks for all auxiliary senders in group.	After 15 to 30 seconds— Minor alarm sounds. ASB lamp lighted.
2	Momentarily operate ALM RLS key.	Minor alarm silenced.
3	Remove plugs from MB jacks.	ASB lamp extinguished upon removal of first MB plug.
D. Gate Circuit False Ground Alarm (Where Provided)		
1	Block nonoperated LR relay.	
2	Block operated ST0 relay.	GAA relay unoperated.
3	Insulate 10M contact of ST0 relay.	GAA relay operated. LR lamp lighted. Minor alarm sounds.
4	Remove insulator from ST0 relay.	GAA relay released.
5	Momentarily operate AR key.	LR lamp extinguished. Minor alarm silenced.
6	Insulate 9M contact of ST0 relay.	GAA relay operated. LR lamp lighted. Minor alarm sounds.
7	Remove insulator from ST0 relay.	GAA relay released.
8	Momentarily operate AR key.	LR lamp extinguished. Minor alarm silenced.
9	Remove blocking tool from ST0 relay.	
10	Remove blocking tool from LR relay.	

STEP	ACTION	VERIFICATION
11a	If APA_ relays are provided— Momentarily operate AR key.	At all associated ASL— Corresponding AB_ relays released.
12	Repeat Steps 5a through 11a, as required, for all equipped AP_ relays.	
13	Remove blocking tool from LRA relay.	
14	Block operated G relay in first link unit.	
15	Insulate 10M contact of operated G relay.	
16	Operate AB0 relay.	AB0 relay locks operated.
17	Operate each higher numbered AB_ relay in group.	Operated AB_ relays lock until released by last manually operated AB_ relay in group.
18	Remove insulating tool and blocking tool from G relay.	G relay released.
19	Block operated G relay in next link unit.	
20	Insulate 10M contact of operated G relay.	
21	Operate AB0 RELAY.	AB0 relay locks operated.
22	Remove insulating tool and blocking tool from G relay.	G and AB0 relays released.
23	Repeat Steps 19 through 22 for all link units.	

B. Timed Release Feature

1	Connect ground to 21 terminal of terminal strip A.	LR relay operated. LR lamp lighted. Minor alarm sounds. Hold magnets H0L and H0R operated.
2	Remove test connection from terminal strip A.	LR relay released. Hold magnets released.
3	Momentarily operate AR key.	Minor alarm silenced. LR lamp extinguished.
4	Repeat Steps 1 through 3 for wired terminals 22 to 30 of terminal strip A.	
5	Repeat Steps 1 through 4 for all other link units to be tested.	