

OUTGOING SENDER CONNECTOR AND OUTGOING SENDER LINK CIRCUITS TESTS USING OFFICE TEST FRAME NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing outgoing sender connector and outgoing sender link circuits using office test frame in No. 5 crossbar offices.

1.02 The tests covered are:

A. Trunk Access to Senders: This test checks that each trunk in a trunk group has access to each sender in the associated sender group.

B. Sender Selection by Markers: This test checks that each completing marker has access to each sender in a sender group.

C. False Continuity — MA Relay: This test checks for false continuity on the "GBE" or "GBO" leads between the MA relays of the outgoing sender connector and the even or odd markers, respectively.

1.03 Test C requires verification at OSC frame and requires that all markers be made busy to an OSC for the duration of the test.

1.04 *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 con-

dition 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.

2. APPARATUS

All Tests

2.01 322A make-busy plugs, as required.

Tests A and B

2.02 Office Test Frame.

2.03 329A make-busy plugs, as required.

2.04 Patching cords, P3D cord, 6 feet long, equipped with two 309 plugs (3P3A) as required.

Test C

2.05 716C test receiver, or equivalent, attached to a W2AB cord, equipped with two 360A tools (2W21A cord), one KS-6278 connecting clip, and one 411A tool.

3. PREPARATION

Tests A and B

STEP	ACTION	VERIFICATION
1	Operate MKR-, DO and FS- keys to select completing marker and trunk link frame on which trunk to be tested appears.	
2	Operate OTL and CL- keys to select class of service with access to the trunk route.	
3	Operate MCB key.	
4	Operate NT key.	

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STEP	ACTION	VERIFICATION
5	Operate A- through K- dial switches as required to select the trunk route and a test line in the distant office.	
6	Operate 7D key if a seven-digit call is to be dialed or, if a ten-digit call is required, do not operate any of the -D keys.	
7	At jack, key and lamp circuit — Operate BAT key.	
8	Make busy trunk to be selected.	
9	Patch SDR jack in MB2 jack field to SMB-jack of sender to be tested.	
10	Patch 0 to 9 jacks in the MB1 jack field to the SMB- jacks of all other senders in the sender group.	
11	At OTF — Insert 329A make-busy plug in TS- jack for selection of the desired trunk.	
12	Operate REC key.	

4. METHOD

STEP	ACTION	VERIFICATION
A. Trunk Access to Senders		
13	Operate ST key.	At trouble indicator and connector frame (TIC) — Display registered. TB-, FS-, TS-, FAK or FBK lamps lighted corresponding to location of trunk on trunk link frame. CN- and S- lamps lighted corresponding to location of sender in sender connector.
14	Restore ST key.	
15	At TIC — Operate RLS key momentarily.	Display released.
16	Repeat Steps 8, 9, 12, 13, and 14 selecting a different sender on each call until all senders are tested to this particular trunk.	Same as Steps 12 and 14.
17	Release made busy trunk.	
18	Repeat Steps 7, 8, 9, 10, 12 through 16, selecting each trunk of the trunk group.	Same as Steps 12 and 14.
19a	If no further tests are to be made, remove all patching cords and make-busy plugs and restore all keys.	

STEP	ACTION	VERIFICATION
B. Sender Selection by Markers		
13	Operate ST key.	At TIC — Display registered. TB-, FS-, TS-, FAK or FBK lamps lighted corresponding to location of trunk on trunk link frame. CN- and S- lamps lighted corresponding to location of sender in sender connector. DR- lamp lighted corresponding to marker used on test.
14	Restore ST key.	
15	At TIC — Operate RLS key momentarily.	Display released.
16	Repeat Steps 8, 9, 12, 13, and 14 selecting a different sender on each call until all senders are tested to a particular marker.	Same as Step 12.
17a	If no further tests are to be made, remove all patching cords, make-busy plugs and restore all keys.	
C. False Continuity — MA Relay		
1	At jack, lamp, and key circuit — Insert make-busy plugs into each SCMB-jack for each marker of outgoing sender connector under test.	At outgoing sender connector frame — No ground on contacts of relay in connector as follows: 01 fixed of MA1. 12 fixed of MA2.
2	Remove make-busy plugs from SCMB-jacks.	