

**AUXILIARY LINE CIRCUITS
SERVING MORE THAN ONE OFFICE IN THE SAME BUILDING
TESTS
NO. 1 CROSSBAR OFFICES**

1. GENERAL

1.01 This section describes a method of testing auxiliary line circuits SD-25319-01, serving more than one office in the same building in No. 1 crossbar offices.

1.02 The tests and features tested are:

(A) Operation Test: This test checks:

- (1) The auxiliary line circuit on an originating call.
- (2) That the auxiliary line circuit gives busy indications to all marker groups when seized on a call.
- (3) The continuity of tip, ring and sleeve leads of the auxiliary line circuit from each marker group on a terminating call.

(B) Simultaneous Seizure: This test checks that on simultaneous attempts to seize the auxiliary line circuit by more than one marker, seizure is made by only one marker.

(C) Busy from "B" Supervisor's Circuit: This test checks that the auxiliary line circuit is made busy when the associated "B" supervisor's circuit is used for:

- (1) An originating call.
- (2) A panel terminating call if the "B" supervisor's circuit is arranged for combined panel and crossbar operation.

1.03 Test (C) is made only on auxiliary line circuits associated with "B" supervisor's circuits.

1.04 An assistant located at the auxiliary line circuit is required for performing Tests (A) and (C).

1.05 These tests should preferably be made during periods of light traffic and should be completed as quickly as possible to avoid interference with service calls.

1.06 Lettered Steps: The letters a and b are added to a step number to indicate that the steps cover an action which may or may not be required, depending on local conditions. The conditions under which a lettered step or series of steps should be made are given in the action column, and all steps governed by the same condition are designated by the same letter. Where a condition does not apply, the associated steps should be omitted.

2. APPARATUS

2.01 The apparatus required for each test is shown in the following list. The details of each item are covered in the indicated paragraphs.

Apparatus	Required for Tests		
	<u>A</u>	<u>B</u>	<u>C</u>
Operator's Telephone Set (2.02)	x		x
Outgoing Trunk Test Frame (2.03)	x		
Hand Set (2.04)	x		
Terminating Trouble Indicator Frame (2.05)	x		
Test Receiver (2.06)		x	

2.02 No. 52-Type Head Telephone Set or equivalent Operator's Telephone Set.

2.03 Outgoing Trunk Test Frame SD-25177-01.

2.04 No. 1011G Hand Set attached to a No. 2W37A Cord Assembly (or the replaced No. 1011C Hand Set). The No. 2W37A Cord Assembly consists of a No. W2DB Cord, a No. 471A Jack and two No. 2 Test Clips A. T. & T. Co. Spec. No. 6928.

2.05 Terminating Trouble Indicator Frame SD-25284-01.

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2.06 No. 716E (or the replaced No. 528) Receiver attached to a W2AB Cord equipped with two No. 360A Tools (2W21A Cord), a No. 411A Tool and a KS-6278 Tool.

3.02 When an assistant is used on Test (A), establish a talking connection between the auxiliary line circuit and the terminating trouble indicator frame.

3. PREPARATION

3.01 From the office records obtain the telephone numbers associated with the auxiliary line circuits.

3.03 When an assistant is used on Test (C), establish a talking connection between the auxiliary line circuit and the "B" supervisor's circuit.

4. METHOD

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
<u>(A) Operation Test</u>		
1	At auxiliary line circuit - Operate switch of hand set to MON.	
2a	If terminal strip on unit is not provided - Connect hand set to 4T and 4B of CTO relay.	
3b	If terminal strip on unit is provided - Connect hand set to lower 1 and 2 terminals.	
4	When auxiliary line circuit is idle - Operate switch of hand set to TALK.	Dial tone is heard.
5	Dial zero.	Operator answers and conversation is easily understood.
6	Request operator to disconnect call when disconnect signal is received.	
7	At terminating trouble indicator frame - Originate a "No Hunt" call to each number assigned to auxiliary circuit as outlined in Section 216-331-501. <u>Note:</u> Do not make the line busy by the use of the NS keys or jacks.	At terminating trouble indicator frame - BB lamp lights for each call.
8	At auxiliary line circuit - Operate switch of hand set to MON.	
9	At outgoing trunk test frame - Originate a line voltmeter test call to first number associated with auxiliary line circuit as outlined in Section 216-201-501.	
10	At auxiliary line circuit - Operate switch of hand set to TALK.	Conversation is easily understood.
11	Operate switch of hand set to MON.	
12	At outgoing trunk test frame - Release test call.	
13	Originate a line voltmeter test call to next number associated with auxiliary line circuit.	

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
14	At auxiliary line circuit - Operate switch of hand set to TALK.	Conversation is easily understood.
15	Operate switch of hand set to MON.	
16	At outgoing trunk test frame - Release test call.	
17	Repeat Steps 12 through 15 for each additional number associated with auxiliary line circuit.	
18	At auxiliary line circuit - Disconnect hand set.	

(B) Simultaneous Seizure

1	At auxiliary line circuit - Block SLO relay operated.	CTO relay operates. Absence of ground on 7T of last SL- relay.
2	Remove blocking tool from SLO relay.	CTO relay releases. Ground on 7T of last SL- relay.
3	Block next SL- relay operated.	Next CT- relay operates. Absence of ground on 7T of last SL- relay.
4	Remove blocking tool from SL- relay.	CT- relay releases. Ground on 7T of last SL- relay.
5	Repeat Steps 3 and 4 for each succeeding SL- relay provided.	

(C) Busy from "B" Supervisor's CircuitCrossbar Offices Only

1	Using "B" supervisor's circuit originate a call through "A" switchboard to local office busy number.	At auxiliary line circuit - IB, OB and, if provided, OBl relays of A line operate.
2	Disconnect call.	IB, OB and, if provided, OBl relays release.

Combined Crossbar and Panel Offices

3	At a convenient dial station - Originate a call to panel line associated with A line of "B" supervisor's circuit.	At auxiliary line circuit - IB, OB and, if provided, OBl relays of A line operate.
4	Disconnect call.	IB, OB and, if provided, OBl relays release.
5	Originate a call to panel line associated with B line of "B" supervisor's circuit.	IB, OB and, if provided, OBl relays of B line operate.
6	Disconnect call.	IB, OB and, if provided, OBl relays release.

