

**AUXILIARY LINE CIRCUIT ARRANGED FOR MANUAL  
TERMINATING SERVICE PER SD-25138-01 AND SD-25140-01  
TESTS  
NO. 1 CROSSBAR OFFICES**

1. GENERAL

1.01 This section covers a method of testing auxiliary line circuits per SD-25138-01 and SD-25140-01 arranged to provide terminating service for use with dial subscriber lines in No. 1 crossbar offices.

1.02 This test checks:

- (1) The circuit on an originating dial, a terminating dial, and terminating manual calls.
- (2) That the transmission is satisfactory.
- (3) That the circuit gives a proper busy indication:
  - (a) To the terminating dial equipment when the circuit is busy on a dial originating call.
  - (b) To the terminating dial equipment when a switchboard cord plug is in the jack of the associated auxiliary line circuit.
  - (c) To the switchboard operator when the circuit is busy on a dial call.
- (4) That the operator at the switchboard can not complete a terminating manual call over circuit SD-25138-01 should the line under test be busy on a dial call.
- (5) That the operator at the switchboard can complete a terminating manual call over circuit SD-25140-01 should the line under test be busy on a dial call.
- (6) That the operator at the switchboard can disconnect the office end of a busy connection when auxiliary line circuit SD-25140-01 is provided.

1.03 These tests should be made during periods of light traffic and every precaution taken to avoid interruptions to subscriber service.

1.04 Should a subscriber attempt to use the line while it is under test, inform him that the testing will be immediately discontinued and request him to try the call again. Discontinue further testing on this line until it is idle.

1.05 An assistant will be required at the switchboard for the test outlined in this section. The test should preferably be made from the switchboard position having access to the end of the multiple. When testing an auxiliary line circuit associated with a line assigned an extra number, or a line used as a first or intermediate line of a PBX or terminal hunting group, an additional assistant will be required at the outgoing trunk test frame.

1.06 Lettered Steps: The letters a, b, c, etc, 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 conditions are designated by the same letter. Where a condition does not apply the associated steps should be omitted.

2. APPARATUS

2.01 No. 1011G Dial Handset, consisting of a W2CL Cord and a No. 471A Jack and a 240A Plug (2W39A Cord) (or equivalent).

2.02 No. 52-type Head Telephone Set (or equivalent).

2.03 No. 893 Cord, 6 feet long, equipped with two No. 360A Tools (1W13B Cord), a No. 419A Tool, and a KS-6278 Tool.

2.04 Outgoing Trunk Test Frame, SD-25177-01 (required when testing an auxiliary line circuit associated with a line having assigned an extra number or a line used as a first or intermediate PBX or terminal hunting group).

**SECTION 216-208-502**

3. PREPARATION

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
1	Obtain record indicating the association of subscriber lines with the auxiliary line circuits and all relative assignments.	
2	Establish talking connection between assistants where required.	

4. METHOD

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
3	At MDF - Using handset connect to cable pair of line associated with auxiliary line circuit with handset switch in MON position. (If line is busy select another auxiliary line circuit until an idle circuit is found.)	
4	At switchboard - Operate TALK key of idle cord circuit and insert associated calling cord plug into jack of auxiliary line circuit under test.	
5	At MDF - Operate handset switch to TALK position.	Conversation easily understood.
6	Operate handset switch to MON position.	
7	At switchboard - Remove calling cord plug from jack and restore TALK key to normal position.	
8a	When circuit under test is associated with a line other than an extra number - At switchboard - Operate TALK key of idle cord circuit and originate a call to line associated with circuit under test using a delayed completing trunk, regular (SD-25302-01) or equivalent.	
9b	When circuit under test is associated with a line assigned an extra number - At outgoing trunk test frame - Originate a call to line associated with circuit under test and operate TALK key.	
10	At MDF - Operate handset switch to TALK position.	Conversation easily understood.
11a	When circuit under test is associated with a line other than an extra number - At switchboard - Restore TALK key to normal.	
12	At switchboard - Operate TALK key of idle cord circuit and momentarily touch calling cord plug tip to jack sleeve associated with circuit under test.	Click heard in receiver of operator telephone set.

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
13c	When testing auxiliary line circuit, SD-25138-01 - Insert calling cord plug into auxiliary line circuit jack.	Conversation can not be carried on.
14d	When testing auxiliary line circuit, SD-25140-01 - Insert calling cord plug into auxiliary circuit jack.	Conversation easily understood.
15	Restore TALK key to normal.	
16a	When circuit under test is associated with a line other than an extra number - Operate cord circuit TALK key associated with delayed completing trunk.	
17d	When testing auxiliary line circuit SD-25140-01 - Momentarily operate No. 492A key associated with circuit under test.	Conversation can not be carried on to MDF.
18	At MDF - Operate handset switch to MON position.	
19a	When circuit under test is associated with a line other than an extra number - At switchboard - Disconnect from line by removing calling cord plug from delayed completing trunk jack and restore TALK key to normal.	
20b	When circuit under test is associated with a line assigned an extra number - At outgoing trunk test frame - Disconnect from line associated with circuit under test.	
21e	When circuit under test is associated with a line assigned an extra number or used as a first or intermediate line of a PBX or terminal hunting group - At outgoing trunk test frame - Originate a call to line associated with circuit under test.	Busy signal received.
22f	When circuit under test is associated with other than a line assigned an extra number or used as a first or intermediate line of a PBX or terminal hunting group - At switchboard - Originate a call to line associated with circuit under test.	Busy signal received.
23	Disconnect from busy signal.	
24	At switchboard - Remove cord plug from jack associated with circuit under test.	

SECTION 216-208-502

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
25g	When circuit under test is associated with a line of a 700C, 701A, 702A, 710C, 711A, 740A, 740B, 740C, or 740E PBX or as a prepay coin line - At MDF - Operate handset switch to TALK position and momentarily connect ground to tip side of line using No. 893 cord.	Dial tone received.
26h	When auxiliary line circuit under test is associated with other than a line to a 700C, 701A, 702A, 710C, 711A, 740A, 740B, 740C, or 740E PBX or as a prepay coin line - At MDF - Operate handset switch to TALK position.	Dial tone received.
27e	When circuit under test is associated with a line assigned an extra number or used as a first or intermediate line of a PBX or terminal hunting group - At switchboard - Originate a call to line associated with circuit under test.	Busy signal received.
28f	When circuit under test is associated with other than a line assigned an extra number or used as a first or intermediate line of a PBX or terminal hunting group - At outgoing trunk test frame - Originate a call to line associated with circuit under test.	Busy signal received.
29	Disconnect from busy signal and restore all keys to normal.	
30	At MDF - Operate handset switch to MON position and remove connection from cable pair.	