

SUBSCRIBER LINE RELAY CIRCUIT
TELETYPEWRITER SWITCHBOARDS NOS. 3 AND 3A

1. GENERAL

1.01 This section describes tests of the subscriber line relay circuit used in the teletypewriter switchboards Nos. 3 and 3A. The tests are as follows:

(A) Where Test Trunk is Provided for Line Circuit Relay Tests

~~(B) Where Test Trunk is not Provided for Line Circuit Relay Tests~~

1.02 Test (A) requires two persons, one at the test board and one at the switchboard, (usually an operator). In some offices it may be more convenient to have another person located at the subscriber line relay rack bay.

~~1.03 Test (A) is based on using a subscriber line testing trunk which is arranged to test the line relay such as a trunk per SD-70065-01 and when test (A) is performed test (B) shall be omitted.~~

2. APPARATUS

Test (A)

2.01 Two P2A Cords equipped with No. 347B Plugs.

~~Test (B)~~

~~2.02 One W3M-Cord equipped with a No. 310 Plug on one end and with 360 type tools at the other. The 360 type tools on the ring and sleeve conductors should be equipped with a No. 365 Tool and a No. 411A Tool, respectively.~~

3. METHOD

(A) Where Test Trunk is Provided for Line Circuit Relay Tests

3.01 Connect the A and B jacks of the subscriber line testing trunk located at the subscriber line relay rack bay to the A and B jacks of the subscriber line circuit to be tested, using two P2A cords.

Note: First connect to the A and B jacks of the subscriber testing trunk and then to the subscriber line circuit to be tested to eliminate any possible interference with service.

3.02 At the Test Board: Connect the test board teletypewriter to the SWBD jack. If the subscriber line is not busy operate the SPLIT and the ON keys of the subscriber line testing trunk.

3.03 At the Switchboard: The line lamp or lamps associated with the subscriber line circuit under test should light in all appearances. Insert the answering plug of an idle cord circuit into the jack associated with the subscriber line under test. The line lamp or lamps should be extinguished. Operate the typing key of this cord circuit and send signals with the operator's teletypewriter over the subscriber line circuit under test. These signals should be received at the test board teletypewriter.

Note: If the night alarm key is operated at the time the line lamps light, the night alarm signal should function.

3.04 At the Test Board: The test board attendant should operate his teletypewriter in acknowledgment. These signals should be received on the operator's teletypewriter. Operate the RECALL key of the subscriber line testing trunk intermittently.

3.05 At the Switchboard: The cord circuit supervisory lamp should flash. Remove the answering plug from jack of the subscriber line circuit. The cord circuit supervisory lamp should be extinguished.

3.06 At the Test Board: Restore the ON key of the subscriber line testing trunk to normal.

3.07 At the Switchboard: Insert the plug of the calling cord into the jack of the subscriber line under test and operate the associated ringing key. The cord circuit supervisory lamp should light.

3.08 At the Test Board: The SWBD lamp associated with the subscriber line testing trunk should light. Operate the ON key. The SWBD lamp should be extinguished.

3.09 At the Switchboard: The calling cord supervisory lamp should be extinguished.

3.10 At the Test Board: Restore the ON key of the subscriber line testing trunk to normal.

3.11 At the Switchboard: The calling cord supervisory lamp should light. Remove the cord from the jack of the subscriber line under test. The cord supervisory lamp should be extinguished. Restore the cord circuit to normal.

3.12 At the Test Board: Disconnect the test board teletypewriter from the SWBD jack and restore the SPLIT key to normal.

3.13 Remove the patching cords first from the A and B jacks of the subscriber line and then from the subscriber line testing trunk.

(B) Where Test Trunk is not Provided for Line Circuit Relay Tests

3.14 Note that the subscriber line circuit to be tested is not busy. Then insert the plug of the W3M cord into the jack of the subscriber line circuit to be tested.

3.15 Connect the No. 365 tool (on the ring, blue, conductor) of the W3M cord to a convenient ground. The subscriber line lamp or lamps should light in all appearances.

3.16 With the ring of the W3M cord still connected to ground, touch the No. 411A tool (on the sleeve) to the sleeve of a plug of an idle cord circuit. The subscriber line lamp or lamps should be extinguished.

3.17 Remove the plug of the W3M cord from the jack of the subscriber line circuit under test.

4. REPORTS

4.01 The required record of these tests should be entered on the proper form.