

AUXILIARY LINE CIRCUITS
ARRANGED FOR RIGHT OF WAY ON EMERGENCY CALLS
OPERATION TESTS
USING DIAL HAND TEST SET
STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section covers a method of testing auxiliary line circuits SD-96364-01 and SD-96369-01 for use in common systems and arranged for right of way on emergency calls from a specific subscriber to an operator office. It also covers a method for testing SD-32101-01 used in a similar way in No. 1, 350A, 355A, 360A, 370A, 370B, 375A, 375B, 385A, 385B, 386A, 386B, 35E97, 32A44, 32A32 or North Electric Co. type offices.

1.02 The tests are as follows:

- (A) SD-96364-01 and SD-96369-01
- (B) SD-32101-01

1.03 These tests are primarily to check the continuity of the circuit for emergency operation and the restoral to the normal condition. If it is desired to check the differential F and pulsing A or P relays of these circuits, this should be done in accordance with the information given on the circuit requirement table.

1.04 Tests should be made during periods of light traffic to prevent interference with both originating and terminating service. All tests should be completed without delay in order to keep the circuit available for service calls. If it is noted when making test (A) that there is an attempt to use the line during the progress of the test, postpone the test until such time as the line is idle.

2. APPARATUS

Tests (A) and (B)

- 2.01 D-81760 dial hand test set (or equivalent), equipped with D-96823 slider.
- 2.02 KS-6948 45 volt battery or KS-8128 22-1/2 volt battery (as required to provide minimum 60 volts). Required for test (B) and required for test (A) when testing SD-96369-01 using 239 type relays as F relays.
- 2.03 No. 893 cord, 6 feet long, equipped with two No. 360A tools (1W13B cord) and two KS-6278 tools. Insulate one KS-6278 tool with a No. 108 cord tip. (Two required where booster battery is used in connection with test).

Test (B) Only

2.04 A W2CF cord, 1 foot long, equipped with a No. 310 plug on one end and a No. 360B and No. 360C tool on the other (2W17D cord) and two KS-6278 tools. Insulate the KS-6278 tools with No. 108 cord tips.

3. PREPARATION

3.01 Using a No. 893 cord, connect to ground the positive terminal of the booster battery specified in 2.02 to provide a minimum of 60 volts. Do not connect the negative terminal of the battery at this time.

Note: This preparation applies for test (B). Also, for test (A) when used with SD-96369-01 equipped with 239 type relays as F relays.

4. METHOD

(A) SD-96364-01 and SD-96369-01

4.01 Connect one end of a No. 893 cord to top terminal one of the terminal strip associated with the auxiliary line equipment unit, leaving the other end of the cord free.

4.02 Connect the dial hand test set, with the C button operated, to the line terminals, top terminals 1 and 2 on the terminal strip on the auxiliary line equipment unit. If ringing, dial tone or conversation is not heard, release the C button. If dial tone is then heard or an operator answers, the line is idle, if not, challenge on the line and determine if the line is in use. If in use discontinue the test. If an operator answers, inform her that a test is being made.

4.03 Touch the clip on the free end of the No. 893 cord, momentarily, to the negative terminal of the booster battery, if one is being used as covered by 3.01. Otherwise, touch the clip, momentarily, to ground. Observe that the operator on the emergency connection answers.

4.04 SD-96369-01 Only: Again touch the clip on the free end of the No. 893 cord, momentarily, to the negative terminal of the booster battery or to ground, as was done in 4.03. Check with the operator, (a) that the supervisory lamp flashed or (b) that the call was transferred to another trunk.

Note: When the connection is through a rotary line switch, the flash may release the switch, causing it to seize another operator trunk.

4.05 Operate the C button of the dial hand test set for approximately two seconds, in order to restore the circuit to the normal condition. After restoring the C button, observe that dial tone is heard, if the circuit is arranged for dialing or that the operator on the regular connection answers, if the circuit operates on a manual basis.

4.06 Disconnect the No. 893 cord and the dial hand test set.

(B) SD-32101-01

4.07 Connect the dial hand test set, with the C button operated, to the line terminals, terminals 1 and 2 on the terminal strip on the auxiliary line equipment unit. If ringing, dial tone or conversation is not heard, release the C button. If dial tone is then heard the line is idle, if not, challenge on the line and determine if the line is in use. If in use discontinue the test.

4.08 Insert the plug of a W2CF cord in the T jack on the auxiliary line equipment unit. Disconnect the dial hand test set from the terminal strip.

4.09 Connect the dial hand test set, with the C button operated, to the connecting clips attached to the W2CF cord. Connect one end of a No. 893 cord to the tip conductor, at the clip of the hand test telephone set, leaving the other end free.

Note: Use care in connecting the clips of the W2CF cord, the dial hand test set and the No. 893 cord, to prevent the conductors becoming shorted at the clips.

4.10 Release the C button of the dial hand test set and observe that dial tone is heard.

4.11 Touch the clip on the free end of the No. 893 cord, momentarily, to the negative terminal of the booster battery. Observe that the operator on the emergency connection answers.

4.12 Again touch the clip on the free end of the No. 893 cord, momentarily, to the negative terminal of the booster battery, as was done in 4.11. Check with the operator, (a) that the supervisory lamp flashed or (b) that the call was transferred to another trunk.

Note: When the connection is through a rotary line switch, the flash may release the switch, causing it to seize another operator trunk.

4.13 Operate the C button of the dial hand test set for approximately two seconds, in order to restore the circuit to the normal condition. After restoring the C button, observe that dial tone is heard.

4.14 Remove the W2CF cord from the T jack.

5. REPORTS

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