

EMERGENCY LISTENING CIRCUITS
AUTOMATIC LISTENING STRAIGHTFORWARD POSITIONS
NO. 1 OFFICE

1. GENERAL:

- 1.1 This section describes a method of testing emergency listening circuits associated with automatic listening straightforward trunk positions.
- 1.2 Due to different circuit arrangements, the tests are divided into two parts: Test (a) covers an operation test of emergency listening circuits that are individual to each position. Test (b) covers an operation test of emergency listening circuits which have been provided on the basis of two circuits multiplied through approximately eight positions.
- 1.3 The methods outlined provide for the tests to be made on a two-person basis. The test may be made in conjunction with any test during which a connection is established to the "B" position, which provides for listening on the connection at the originating offices.
- 1.4 The tests should be made at night during a period of practically no traffic so as to avoid interference with the handling of subscribers' calls.

2. APPARATUS:

- 2.1 Two Operator's Telephone Sets.

3. METHOD:

- 3.1 In offices having O.G.T. trunks equipped with indicating lamps which are controlled by the "B" position under test, request the supervisor to instruct the "A" operators to disregard lamp indications and to follow the busy test method of selecting a trunk on non-indicating trunk groups that are not under the control of the "B" position under test.
 - 3.2 If the scheme of tandem trunking is such that it is not possible to make direct connection from an "A" position to tandem outgoing trunks, the tester at the outgoing end should route a call from a local "A" position through the tandem equipment to the "B" position under test.
- (a) **Operation Test—Circuits Individual to Each Position:**

"B" End:

- 3.3 Operate the 40-1 or 48-1 splitting key on the position to be tested and the corre-

sponding splitting key on the position to the right so as to divide the position into a one-position unit. Operate the emergency key so that the arrow points to the right (TONE).

Outgoing End:

- 3.4 Connect an operator's telephone set to the telephone circuit of an idle position and insert a calling cord plug, with the listening key operated, into the O.G.T. jack of an idle trunk that terminates on the "B" position to be tested. Vacant position tone should be heard in the receiver.

"B" End:

- 3.5 Observe that the trunk guard lamp flashes and that the pilot lamp lights. The night alarm bell should also ring.
- 3.6 Connect an operator's telephone set to the "B" position under test. The guard lamp should stop flashing and light steadily and the pilot lamp should be extinguished.
- 3.7 Insert the trunk cord plug into the emergency jack at the right of the position. The guard lamp should be extinguished and the order tone should be heard in the receiver. Withdraw and reinsert the trunk cord plug several times as a further test of the operation of the relays in the emergency listening and trunk circuits.

Outgoing End:

- 3.8 When the tester at the "B" end inserts the trunk cord plug into the emergency listening jack the order tone should be heard and the cord supervisory lamp should remain lighted. If the tester is testing from a toll position the cord supervisory lamp should be extinguished.

Both Ends:

- 3.9 The testers should make a talking test and note that transmission appears satisfactory. If the transmission is not satisfactory the test should be repeated, using another trunk to insure that the trouble is not caused by a faulty trunk.

"B" End:

- 3.10 Withdraw the trunk cord plug from the emergency listening jack. Operate the

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emergency key so that the arrow points to the left (CHALLENGE) and insert the plug into the emergency jack at the left of the position. Observe that the guard lamp is extinguished and that the order tone is not heard in the receiver. Repeat the operations described in paragraph 3.9.

- 3.11 Operate the emergency listening key to the normal position and repeat the operations described in paragraphs 3.7 to 3.9.
- 3.12 When two or more classes of trunk circuits are terminated on the same position, i.e., toll switching trunks and local and tandem machine ringing trunks, the operations described in paragraphs 3.7 to 3.9 should be repeated in connection with each class of trunks.

(b) Operation Test—Circuits Common to a Number of Positions:

"B" End:

- 3.13 Operate the 40-1 or 48-1 splitting key on the position to be tested and the corresponding splitting key on the position to the right so as to divide the position into a one-position unit. Operate the emergency key so that the arrow points to the right.

Outgoing End:

- 3.14 Connect an operator's telephone set to the telephone circuit of an idle position and insert a calling cord plug with the listening key operated, into the O.G.T. jack of an idle trunk that terminates on the "B" position to be tested. Vacant position tone should be heard in the receiver.

"B" End:

- 3.15 Observe that the trunk guard lamp flashes and that the pilot lamp lights. The night alarm bell should also ring.

- 3.16 Connect an operator's telephone set to the "B" position under test. The guard lamp should stop flashing and light steadily and the pilot lamp should be extinguished.

- 3.17 Insert the trunk cord plug into the emergency jack at the right of the position. The guard lamp should be extinguished and the order tone should be heard in the receiver. Withdraw and reinsert the trunk cord plug several times as a further test of the operation of the emergency listening and trunk circuit relays.

Outgoing End:

- 3.18 When the tester at the "B" end inserts the trunk cord plug into the emergency listening jack, the order tone should be heard and the cord supervisory lamp should remain lighted. If the tester is testing from a toll position, the cord supervisory lamp should be extinguished.

Both Ends:

- 3.19 The testers should make a talking test and note that the transmission appears satisfactory. If the transmission is not satisfactory the test should be repeated, using another trunk to insure that the trouble is not caused by a faulty trunk.

"B" End:

- 3.20 Withdraw the trunk cord plug from the emergency listening jack and operate the emergency listening key so that the arrow points to the left.

Both Ends:

- 3.21 Repeat the operations described in paragraphs 3.17 to 3.19, the tester at the "B" position using the emergency listening jacks at the left of the position.

4. REPORTS:

- 4.1 The required record of this routine should be entered on the proper form.