

INTERTOLL DIALING

INTERTOLL TRUNK CIRCUIT OPERATION TESTS  
FROM SWITCHBOARD POSITION IN NO. 1 TOLL OFFICE

1. GENERAL

1.01 This section describes circuit operation tests of the intertoll dialing trunks from a switchboard position in a No. 1 toll office.

The tests are as follows:

- (A) Test of Signaling and Continuity - Trunk Arranged for Manual Operation.
- (B) Test of Signaling and Continuity - Trunk Arranged for dial Operation.
- (C) Test of Intertoll Selector Busy - Outgoing Calls.
- (D) Test of Busy Signals or Busy Lamps - Incoming Calls.

1.02 This section is reissued to add tests of intertoll trunks arranged for positional repeated dialing operation and to replace Provisional Issue 1.

1.03 It is important that the tests outlined in this section be made only during periods of light traffic as they tend to block originating and terminating calls.

1.04 Test (A) is made from an outward toll position at one office to an inward toll position at a distant office.

1.05 Test (B) is made from an outward toll position at one office to a toll position and then to a test line at a distant office.

1.06 Tests (A), (B), (C) and (D) will require two testers. It may be desirable to establish talking circuits between the testers at the time these tests are being made in which case arrangements for such a circuit should be made locally.

2. APPARATUS

Test (A) and (B)

2.01 Two operators telephone sets, one at each office.

3. METHOD

(A) Test of Signaling and Continuity - Trunk Arranged for Manual Operation

Both Offices

3.01 Insert the plug of an operator's telephone set into the Operator's telephone set jacks of the position to be used for the test.

Home Office

3.02 Note that the circuit to be tested is not busy. Then insert the plug of an idle toll cord circuit into the OGT jack of the trunk to be tested. Note that the busy signals operate or the busy lamps light. Note also that the cord supervisory lamp lights.

Distant Office

3.03 The answering lamp of the incoming trunk should light or the drop or magnetic signal should operate. When an O.G.T. multiple is provided, the busy signals should operate or the busy lamps should light. Insert the plug of an idle cord circuit into the jack of the incoming trunk under test. The answering lamps should be extinguished or the drop or magnetic signal should be restored and when an O.G.T. multiple is provided the busy signals should remain operated or the busy lamps should remain lighted.

Note: In a 9C office arranged for local cord supervision, the supervisory signal of the cord should operate.

Home Office

3.04 The cord circuit supervisory lamp should be extinguished.

Both Offices

3.05 Operate the talking key associated with the cord circuit used for the test and talk over the trunk. Note that the conversation each way is distinct.

Home Office

3.06 Request the distant office to ring. The cord circuit supervisory lamp should light during the time the ringing key is operated.

Distant Office

3.07 Release the talking key.

Home Office

3.08 Operate the ringing key of the cord plugged into the OGT multiple jack.

Distant Office

3.09 The supervisory lamp or signal should operate as follows:

3.09 (Continued)

No. 1 Toll Swbd. - Toll Cord supervisory lamp should light steadily.

No. 3 Toll Swbd. - Toll cord supervisory lamp should flash.

No. 9C Swbd. arranged for supervisory lamp in multiple - Supervisory lamp should flash.

No. 9C Swbd. arranged for local cord supervision - Cord supervisory signal should operate intermittently.

3.10 Operate the talking key in a No. 1 or No. 3 toll cord circuit or disconnect and reconnect the answering cord of a 9C cord circuit. The supervisory lamp should be extinguished or the supervisory signal of a local cord in a 9C office arranged for cord supervision, should operate steadily.

Distant Office

3.11 Remove the plug of the toll cord circuit from the jack of the incoming trunk.

Home Office

3.12 The cord circuit supervisory lamp should light as a disconnect signal.

3.13 Operate the ringing key of the cord plugged into the OGT multiple jack.

Distant Office

3.14 The answering lamp of the incoming trunk should light or the drop or magnetic signal should operate. Insert a plug of an idle cord circuit into the jack associated with the lamp or signal. The lamp should be extinguished or the signal should return to normal.

Both Offices

3.15 Remove the plug of the toll cord circuit from the jack associated with the trunk being tested.

(B) Test of Signaling and Continuity - Trunk Arranged for Dial Operation

Home Office

3.16 Insert the plug of an operator's telephone set into the operator's telephone jacks of the position to be used for the test.

3.17 Note that the circuit to be tested is not busy. When the position dial circuit is arranged for loop dialing, operate the dial key to the DIAL FRONT position. When the position dial circuit is arranged for repeated dialing, operate the monitoring key and if the dial key is associated with the front cords, it shall be operated. Insert the plug of the front cord of an idle toll cord circuit into the OGT jack of the trunk to be tested. Note that the busy signals

operate or the busy lamps light. The dial pilot lamp, when provided, should light.

Distant Office

3.18 When an outgoing trunk multiple is provided, the busy signals should operate or the busy lamps should light.

Home Office

3.19 Dial an operator in a distant toll office.

Distant Office

3.20 The answering lamp of the incoming trunk should light or the drop or magnetic signal should operate. Insert the plug of an idle cord circuit into the jack of the incoming trunk under test. The answering lamps should be extinguished or the drop or magnetic signal should be restored and when an O.G.T. multiple is provided the busy signals should remain operated or the busy lamps should remain lighted.

Home Office

3.21 When the office is not arranged for the "start dialing" feature, restore the dial key to normal and operate the talking key. The dial pilot lamp, when provided, should be extinguished. Talk over the trunk and note that the conversation each way is distinct.

3.22 When the office is arranged for the "start dialing" feature, the dial pilot lamp should remain lighted until an operator answers at the distant office, at which time it should be extinguished. After the dial pilot lamp has been extinguished, restore the dial key to normal and operate the talking key. Talk over the trunk and note that the conversation each way is distinct.

3.23 Request the distant office to ring. The cord circuit supervisory lamp should light during the time the ringing key is operated.

Distant Office

3.24 Release the talking key.

Home Office

3.25 Operate the ringing key of the cord plugged into the OGT multiple jack.

Distant Office

3.26 The supervisory lamp or signal should operate as covered in 3.09.

3.27 Remove the plug of the cord circuit from the jack of the incoming trunk.

Home Office

3.28 The cord circuit supervisory lamp should light as a disconnect signal.

3.29 Operate the ringing key of the cord plugged into the OGT multiple jack.

Distant Office

3.30 The answering lamp of the incoming trunk should light or the drop or magnetic signal should operate. Insert a plug of an idle cord circuit into the jack associated with the lamp or signal. The lamp should be extinguished or the signal should return to normal.

Both Offices

3.31 Remove the plug of the toll cord circuit from the jack associated with the trunk being tested.

Home Office

3.32 When the position dialing circuit is arranged for loop dialing, operate the dial key to the DIAL FRONT position. When the position dialing circuit is arranged for repeated dialing, operate the monitoring key and if the dial key is associated with the front cords, it shall be operated. Insert the plug of the front cord of an idle toll cord circuit into the jack of the OGT being tested. Note that the busy signals operate or the busy lamps light. The dial pilot lamp, when provided, should light.

3.33 When the position dial circuit is arranged for loop dialing, operate the talking key and dial the code for connection to a connector multiple test line circuit. Restore the dial key to normal before the dial returns to normal after dialing the last digit of the code. The dial pilot lamp should be extinguished and the cord circuit supervisory lamp should light after the dial returns to normal.

3.34 When the position dial circuit is arranged for repeated dialing, dial the code for connection to a connector multiple test line circuit. Operate the talking key at the instant the dial returns to normal after dialing the last digit of the code. The cord circuit supervisory lamp should light.

3.35 Ringing tone should be heard, followed by interrupted test tone and flashing of the cord supervisory lamp at a rate determined by the particular test line in use. The interrupted test tone and the flashing lamp will continue until the cord is removed from the OGT jack.

3.36 Remove the plug of the cord circuit and restore the associated keys to normal.

3.37 When the office is arranged for the "start dialing" feature repeat 3.32. Dial the code for connection to a connector multiple test line circuit. The dial pilot lamp should flash at a rate determined by the particular test line in use. Restore the dial key to normal. The dial pilot lamp should be extinguished and the cord supervisory lamp should start to flash at a rate determined by the test line and should continue to flash until the plug of the cord is removed from the OGT jack.

3.38 Remove the plug of the cord circuit from the OGT jack.

(C) Test of Intertoll Selector Busy - Outgoing Calls

3.39 Note that the circuit to be tested is not busy. On manual trunks insert the plug of an idle toll cord circuit into the OGT jack of the trunk to be tested. When the operator at the distant office answers, inform her that tests are being made and to remove the plug of her cord from the trunk. When the trunk circuits are arranged for dialing, proceed as covered in 3.32. Dial the code for connection to connector multiple test line circuit. Determine that ground is present on the sleeve lead at the selector bank multiple terminal strip.

3.40 Remove the plug from the OGT jack and restore the associated keys to normal.

(D) Test of Busy Signals or Busy Lamps - Incoming Calls

Distant Office

3.41 When testing a manual trunk, insert the plug of an idle toll cord in OGT jack. When testing a trunk arranged for dialing, insert the plug of an idle toll cord circuit into the OGT jack and dial the code for connection to a connector multiple test line circuit.

Home Office

3.42 The busy signals should operate or the busy lamps should light.

Distant Office

3.43 Remove the plug of the toll cord from the OGT jack.

4. REPORTS

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