

INTEROFFICE TRUNK RELAY CIRCUIT  
TELETYPEWRITER SWITCHBOARD NO. 1

1. GENERAL

1.01 This section describes operation tests of the interoffice trunk relay circuit and the idle line indicating circuit used in the teletypewriter switchboard No. 1. The tests are as follows:

(A) Test of Interoffice Trunk Relay Circuit

(B) Test of Idle Line Indicating Circuit

1.02 Test (A) requires two persons, one at the No. 15 test board and one at the switchboard, usually an operator.

1.03 The tests outlined herein, with the exception of minor changes, were previously covered in Provisional Section A281.301. This section cancels Section A281.301. The title has been changed from "Toll Line Relay Circuit" to that shown, in order to agree with the latest nomenclature.

2. APPARATUS

Test (A)

2.01 No special testing apparatus is required.

3. METHOD

(A) Test of Interoffice Trunk Relay Circuit

3.01 Request the trouble operator to connect a toll line testing trunk to the circuit to be tested. The guard lamp associated with the testing trunk at the No. 15 test board should light.

Note: Should a distant operator on the circuit under test originate a call at this time, the ANS lamp associated with the testing trunk will light.

3.02 Insert the plug of the TOLL LINE TST-C cord of the line testing circuit into the TGL jack of the circuit under test. The ANS lamp associated with the testing trunk should light.

Note: Should a distant operator originate a call on the circuit under test with the connections established as above, the lamp associated with the TOLL LINE TST-C cord will light.

3.03 Insert the plug of the TOLL LINE REL TST-E cord into the TTY SWBD jack of the circuit under test and operate the TL TTSW TST key.

3.04 Insert the plug of the OVERALL LINE TST-B cord into the jack of the testing trunk. The associated ANS lamp should be extinguished. If the B lamp flashes after the plug of the cord is inserted in the jack, momentarily operate the TTY ON CORD key and the B lamp should be extinguished.

3.05 Transmitting a Calling Signal: Operate the RING key for approximately 2 seconds. Lamp E should light. Operate the TTY ON TOLL key. Lamp E should be extinguished and lamp F should flash. Operate and release the TTY ON CORD key. Lamp F should be extinguished.

3.06 Transmitting Teletypewriter Signals: Operate the TTY SIG ON CORD key. Teletypewriter signals should be received on the test board attendant's teletypewriter while the key is operated. Restore the TTY SIG ON CORD key to normal.

3.07 Receiving a Flashing Recall Signal: Momentarily operate the TOLL RECALL DISC key. After approximately 7 seconds the B and F lamps should flash. Momentarily operate the TTY ON CORD key. The B and F lamps should be extinguished.

3.08 Receiving a Disconnect Signal: Operate the TOLL RECALL DISC key momentarily and then promptly restore the TTY ON TOLL key. After approximately 10 seconds the B lamp should light. Operate the CORD ON TOLL key for not more than 2 seconds. The B lamp should flash. Operate momentarily the TTY ON CORD key. The B lamp should be extinguished.

3.09 Transmitting a Recall Signal: Operate the TTY ON TOLL key. (The F lamp may flash, if so momentarily operate the TTY ON CORD key to extinguish it.) Momentarily operate the UNATT RECALL DISC key. The test board attendant's teletypewriter mechanism will rotate freely for approximately 7 seconds when lamps B and F should flash. For circuits not arranged for flashing recall the B and F lamps should light steadily. Remove and reinsert the plug of the OVERALL LINE TST-B cord. The B and F lamps should flash.

3.10 Momentarily operate the TTY ON CORD key. The B and F lamps should be extinguished.

SECTION A281.144

3.11 Receiving a Calling Signal: Remove the plug of the OVERALL LINE TST-B cord from the jack associated with the testing trunk.

3.12 Momentarily operate the DISC key associated with the testing trunk. The disconnect lamp associated with the testing trunk should light at the switchboard as an indication to the operator to remove the plug of the cord from the circuit under test. When the plug is removed from the circuit under test, the associated guard lamp at the test board should be extinguished.

3.13 Operate the TOLL CALL key for approximately 2 seconds. The trunk lamp or lamps associated with the circuit under test should light at the switchboard.

3.14 When the operator answers the call, the trunk lamp or lamps should be extinguished and teletypewriter signals should be received on the test board attendant's teletypewriter. Advise the operator that this is a test call.

3.15 Transmitting a Disconnect Signal: Request the operator to send a disconnect signal. The attendant's teletypewriter mechanism will rotate freely. After approximately 10 seconds the test board attendant's teletypewriter mechanism will stop rotating and lamp F should light.

3.16 Disconnection: Restore the TTY ON TOLL key. The F lamp should flash. Momentarily operate the TTY ON CORD key. The F lamp should be extinguished. Restore the TL TTSW TST key. Disconnect the TOLL LINE TST-E cord and then the TOLL LINE TST-C cord.

(B) Test of Idle Line Indicating Circuit

3.17 At the switchboard, the lamp of the first idle circuit of the group to be tested should be lighted. Check to see that the multiple appearances of this lamp are lighted.

3.18 Insert the plug of an idle cord circuit into the jack associated with the lighted lamp of the group to be tested. The lamps should be extinguished and the next idle lamp of the group should light at each multiple appearance.

3.19 Continue inserting plugs of idle cord circuits into all the jacks of the group under test until all lamps have been checked.

3.20 Upon the completion of the test remove all cords. The idle indicating lamp associated with the first idle circuit of the group should again light.

4. REPORTS

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