

RECORDING TRUNKS TO TOLL OFFICES  
TESTS  
PANEL OFFICES

1. GENERAL:

1.1 This section outlines methods of testing Long Distance and Toll recording trunks. Three separate tests are covered, these being: (a) an operation test from the outgoing trunk test board, (b) a current-flow check of the supervisory and trunk relays, and (c) an operation test from the M.S. "A" board for trunks arranged for outgoing service from this point.

1.2 All circuits failing on this routine should be made busy until the trouble is cleared.

2. APPARATUS:

2.1 Test (b): One No. 35-C (or No. 35-A) Test Set.

Note: Relay adjusting test set per ES-207709 (C-43294) may be used.

2.2 Test (c): One Operator's Telephone Set.

3. METHOD:

(a) Test from O.G.T. Test Position:

3.1 Operate the NT and VM keys of a test and talking cord and the VM-REV key of the associated voltmeter circuit at an outgoing trunk test position.

Note: If a voltmeter test cord circuit per ES-207571 is used, operate the MB and REV keys, and hold the NOT key operated, if necessary.

3.2 Test the sleeve of the test jack of the trunk to be tested with the tip of the cord. If the voltmeter reading indicates a ground on the sleeve, the trunk is busy and should not be tested at this time. If no ground is detected on the sleeve of the jack, proceed as follows:

3.3 Restore the VM-REV (or REV) key and then insert the plug of the cord into the test jack. Operate the talking key of the voltmeter circuit, note that the white (supervisory) lamp of the voltmeter circuit is lighted and listen for ringing induction.

3.4 If a conversation is heard, defer testing on this trunk, remove the cord from the jack and proceed with testing another circuit.

3.5 If no conversation is heard, wait for an operator to answer. When the operator answers, note that the white lamp of the voltmeter circuit is extinguished and that the ringing induction is removed. Request the operator to watch for a flash. Flash by restoring and operating the talking key three times and ascertain from the operator whether or not the flashing has been received.

3.6 Request the operator to leave the cord in the trunk jack for a few moments, then remove the cord from the test jack, restore the talking key, operate the VM-REV (or REV) key, and make a voltmeter test for ground on the sleeve of the trunk, using the tip of the cord. A failure to detect ground on this test may be due to the operator disconnecting prematurely. In such cases, repeat the test from paragraph 3.3, making sure that the operator does not disconnect until the test for ground on the jack has been made.

(b) Current Flow Check of Trunk and Supervisory Relays:

3.7 The relays to which this test applies, are those which operate over external tip and ring circuits.

3.8 Have the circuit on which testing is to be done made busy at the outgoing trunk test board.

Note: Also block operated the TF relay, if the trunk is provided with an outgoing trunk jack at the M.S. "A" board.

3.9 Make current-flow tests of all trunk and supervisory relays of the circuit under test, using the test data given in the corresponding circuit requirement table.

3.10 On the completion of this test, have the circuit or circuits which were made busy restored to service.

(c) Test from M.S. "A" Board:

3.11 Select a special service position that is not attended by the traffic department and listen-in on a cord circuit in this position. Test the jack sleeve of the trunk to be tested with the tip of the cord. If the trunk tests busy, as indicated by a click in the receiver of the telephone set, defer testing on this trunk and proceed with a test of the next circuit. When an idle trunk is found, proceed as follows:

3.12 Insert the plug of the cord into the trunk jack. Note that the cord supervisory lamp lights and listen for ringing induction.

3.13 If no conversation is heard, wait for an operator to answer. When the operator answers, note that the cord supervisory lamp is extinguished and that the ringing induction is removed. Request the operator to watch for a flash. Flash by operating the flashing key three times and ascertain from the operator whether or not the flashing has been received.

3.14 Remove the cord from the trunk jack.

4. REPORTS:

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