

OUTGOING TRUNKS TO INFORMATION DESKS

1. GENERAL

- 1.01 This section covers the detailed method to be followed in making transmission tests on outgoing trunks from step-by-step offices to information desks.
- 1.02 Reference should be made to Section K20.01 for general testing methods and to Section K20.11 for general testing apparatus requirements.

2. TESTING METHOD

- 2.01 These circuits are tested at the HIDF of the outgoing step-by-step office by the loop method. In some offices, however, test jacks are provided at the relay equipment associated with these trunks, and in such cases the tests may be made from these jacks.
- 2.02 The testing procedure is the same for both cases, except that patching cords equipped with plugs suited to the IDF terminals or test jacks, as the case may be, will be required.
- 2.03 The loops are established at the information desk of the No. 1 type through the operator's telephone circuit by the operation of the associated trunk keys to the talking position.
- 2.04 At the No. 2 type desk, the loops are established at the supervisor's multiple jacks by means of a regular double ended patching cord.

- 2.05 Figure 1 shows schematically the connections for the test.

Preliminary Connections

- 2.06 Provide three regular double ended patching cords equipped with 110 type plugs, one regular double ended patching cord equipped with plugs of the type suited to the jacks of the supervisor's multiple jacks and two No. P3C cords each equipped with a No. 110 plug and a No. 240 plug (No. 4 terminal open) or two special patching cords equipped and connected as indicated below, as the case may be.

110 Type Plug connected to a 234 Type or Similar Plug

Tip	No. 1 Terminal
Ring	No. 2 Terminal
Sleeve	No. 3 Terminal
	No. 4 Terminal Open

- 2.07 Connect the TMS and TMR jacks of the auxiliary test unit, respectively, to the sending and receiving jacks of the transmission measuring set using two regular patching cords.
- 2.08 Connect the B-GRD (48V) jack of the auxiliary test unit to 48 volt battery and ground (battery on tip and ground on sleeve) using a regular patching cord.

Note: This battery and ground may be obtained from any source convenient to the location of the testing apparatus preferably a nearby BATT jack.

- 2.09 Insert the 110 type plugs of the two No. P3C cords or the special patching cords in the LS and LR jacks of the auxiliary test unit.
- 2.10 Establish a talking circuit with an assistant tester at the information desk.

Testing Procedure

- 2.11 Operate the following keys of the auxiliary test unit to the positions specified. Keys not mentioned should remain in the normal position.

Key 1 to OPEN	Key 5 to BATT
Key 2 to OPEN	Key 6 to BATT
Key 3 to MET	Key 12 to SL
Key 4 to MET	
- 2.12 At the HIDF or test jacks of the trunk relay equipment associated with one of the trunks to be tested (as the case may be) connect the No. 234 type plug of the special

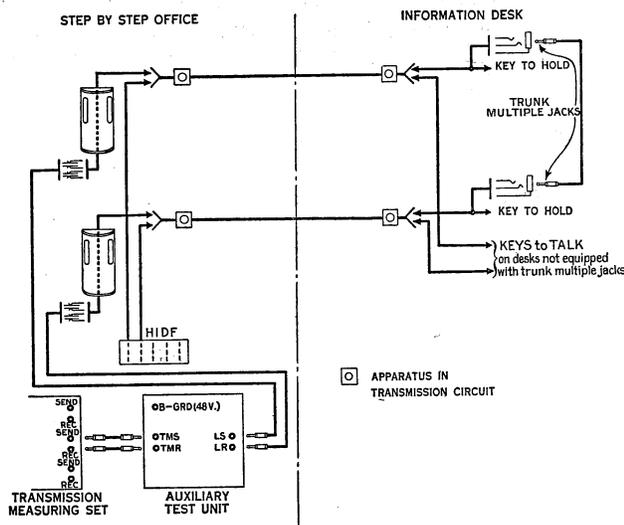


Figure 1

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patching cord or the No. 240-A plug of the No. P3C cord connected to the LS jack of the auxiliary test unit.

- 2.13 If the sleeve lamp of the auxiliary test unit associated with the LS jack does not light (indicating that the trunk is idle) operate key 5 to GRD.

Note: If the lamp lights (indicating that the trunk is busy) remove the plug and repeat until an idle trunk is found.

- 2.14 At the HIDF or test jacks of the trunk relay equipment associated with one of the trunks to be tested (as the case may be) connect the No. 234 plug of the special patching cord or the No. 240-A plug of the No. P3C cord connected to the LR jack of the auxiliary test unit.

- 2.15 If the sleeve lamp of the auxiliary test unit associated with the LR jack does not light (indicating that the trunk is idle) operate key 6 to GRD.

Note: If the lamp lights (indicating that the trunk is busy) remove the plug and repeat until an idle trunk is found.

- 2.16 Advise the assistant tester of the two trunks being held for test and instruct him to loop these by operating the associated trunk keys on the information desk to the talking position.

Note: On information desks equipped with trunk multiple jacks (such as the No. 2 type) the keys associated with the trunks chosen for test should be operated to the holding position and then the trunks looped at the jack multiple by means of a regular double ended patching cord.

- 2.17 At the step-by-step office operate key 1 and key 2 of the auxiliary test unit to HOLD.

Note: On information desks equipped with trunk multiple jacks where the associated trunk keys are operated to the holding position these keys should be restored to the non-operated position.

- 2.18 Measure the transmission loss.

Note: This will be the loss of two trunk circuits and in the case of information desks not equipped with multiple jacks, the bridged loss of the operator's telephone circuit.

- 2.19 Measure the current supply from the trunk connected to the LR jack of the auxiliary test unit while depressing key 10 to remove the holding bridge from the circuit.

- 2.20 Measure the current supply from the trunk connected to the LS jack of the auxiliary test unit while depressing key 9 to remove the holding bridge from the circuit.

- 2.21 Disconnect one trunk by removing the plug of the special patching cord from the associated test jack or IDF terminals, the looping cord at the information desk and restoring to normal the associated trunk key.

- 2.22 Repeat the above testing procedure to determine the transmission loss of a trunk to be used as a standard or test trunk and set it up as outlined in paragraphs 2.11 to 2.13, inclusive.

- 2.23 Proceed with the tests as outlined in paragraphs 2.14 to 2.21, inclusive, for the remaining trunks of the group omitting paragraph 2.20.

- 2.24 When all of the trunks in the group have been tested, disconnect the standard trunk by removing the plug of the special patching cord from the associated test jack or IDF terminals, and restoring to normal the associated trunk key at the information desk.