

## OUTGOING VERIFICATION TRUNKS TO TEST DISTRIBUTORS

### 1. GENERAL

- 1.01 This section covers the detailed method to be followed in making transmission tests on outgoing verification trunks to test distributors.
- 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 step-by-step "A" switchboard by the loop method, and the loops are established at the step-by-step office through vacant connector terminals.
- 2.02 Figure 1 shows schematically the connections for the test.

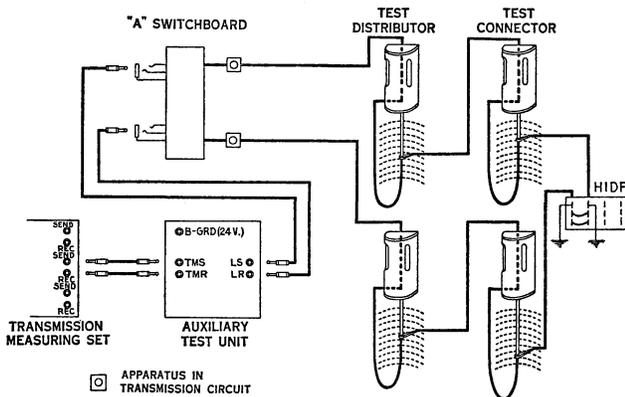


Figure 1

#### Preliminary Connections

- 2.03 Provide two regular double-ended patching cords equipped with 110 type plugs and three regular double-ended patching cords equipped with 109 type plugs.
- 2.04 Connect the TMS and TMR jacks of the auxiliary test unit, respectively, to the sending and receiving jacks of the transmission measuring set using the patching cords equipped with 110 type plugs.
- 2.05 Connect the B-GRD (24V) jack of the auxiliary test unit to 24 volt battery and ground (battery on tip and ground on sleeve) using one of the patching cords equipped with 109 type plugs.
- 2.06 At the HIDF of the step-by-step office select two vacant connector terminals, one

from each of two different hundred line groups.

- 2.07 Remove the tip, ring and sleeve intercepting lines from two vacant connector terminals and connect the sleeve terminals to ground.
- 2.08 At the HIDF connect the two vacant connector terminals tip to tip and ring to ring by means of cross-connection wire.
- 2.09 At the "A" switchboard insert the plugs of two of the patching cords in the LS and LR jacks of the auxiliary test unit.

#### Testing Procedure

- 2.10 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 7 to BATT
Key 4 to MET	Key 8 to BATT

- 2.11 Insert the plug of the cord connected to the LS jack of the auxiliary test unit into the jack of an idle trunk to be tested.
- 2.12 Operate key 1 of the auxiliary test unit to TEST and dial one of the vacant connector terminal numbers chosen above.
- 2.13 Operate key 1 of the auxiliary test unit to HOLD.
- 2.14 Insert the plug of the cord connected to the LR jack of the auxiliary test unit into the jack of another idle trunk to be tested.
- 2.15 Operate key 2 of the auxiliary test unit to TEST and dial the number of the other vacant connector terminal.
- 2.16 Operate key 2 of the auxiliary test unit to HOLD.
- 2.17 Measure the transmission loss.  
  
Note: This is the loss of two trunk circuits.
- 2.18 Release one trunk by operating key 1 or key 2 as the case may be, of the auxiliary test unit to OPEN and removing the plug of the patching cord from the "A" switchboard trunk jack.
- 2.19 Repeat the above testing procedure to determine the transmission loss of a trunk to be used as a standard and set it up as

## SECTION K23.96

outlined in paragraphs 2.10 to 2.13 inclusive.

- 2.20 Proceed with the tests as outlined in paragraphs 2.14 to 2.18 inclusive, for the remaining trunks of the group.
- 2.21 When all of the trunks in the group have been tested disconnect the standard trunk

by removing the plug of the patching cord from the "A" switchboard trunk jack and restore the vacant connector terminals to normal at the HIDF by removing the cross-connecting wire from the tip and ring terminals and the ground from the sleeves, and also reconnecting the intercepting lines.