

AUXILIARY CENTRAL OFFICE CIRCUITS AND EQUIPMENT

1. GENERAL

1.01 This section covers the detailed methods to be followed in making transmission tests on auxiliary central office circuits and equipment in step-by-step offices.

1.02 Information covered in this section of practices is outlined in the following table.

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1.03 Reference should be made to Section K20.01 for general testing methods and to Section K20.11 for general testing apparatus requirements.

2. LONG LINES SUPERVISORY CIRCUITS

2.01 These circuits (which may be spare or removed from service) are tested at the relay equipment block on the HMDF.

2.02 Figure 1 shows schematically the connections for the test.

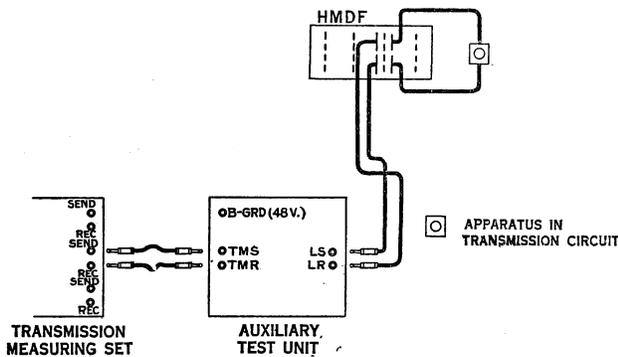


Figure 1

Preliminary Connections

2.03 Provide three regular double ended patching cords equipped with 110 type plugs and one special patching cord equipped and connected as indicated below:

110 Type Plugs connected to a 234 Type or Similar Plug	
Tip	No. 1 Terminal
Ring	No. 2 Terminal
Sleeve—Open	
Tip	No. 3 Terminal
Ring	No. 4 Terminal
Sleeve—Open	

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 two regular patching cords.

2.05 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.

2.06 Insert the 110 type plug of the special patching cord connected to terminals 1 and 2 of the 234 type plug in the LS jack of the auxiliary test unit.

2.07 Insert the 110 type plug of the special patching cord connected to terminals 3 and 4 of the 234 type plug in the LR jack of the auxiliary test unit.

Testing Procedure

2.08 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 HOLD
Key 2 to HOLD
Key 3 to MET
Key 4 to MET

2.09 Connect the 234 type plug of the special patching cord, connected to the LS and LR jacks of the auxiliary test unit, to a long line supervisory circuit to be tested.

2.10 Measure the transmission loss.

2.11 Measure the current supply from the subscriber's end of the long line circuit (connected to the LR jack of the auxiliary test unit) while depressing key 10 to remove the holding bridge from the circuit.

2.12 When testing has been completed, remove the 234 type plug from the HMDF terminals.

2.13 Repeat the above testing procedure for other long line supervisory circuits to be tested.

SECTION K24.69

3. PEG COUNT MONITOR SET

- 3.01 Insert the monitoring cord of the peg count monitor set in the sending jack of the transmission measuring set.
- 3.02 Insert the No. 220 plug in the monitor telephone set jacks.
- 3.03 On the transmission measuring set connect the sending T and R terminals respectively to the receiving T and R terminals.

Note: When a transmission measuring set of the No. 3 type is used, these connections are made through the jack contacts of the set when a dummy plug is removed from a jack other than the one to be used in this test.

- 3.04 Measure the transmission loss.

Note: This is the loss of the peg count monitor set in the bridged condition.

- 3.05 Remove the strapping between the sending and receiving T and R terminals on the transmission measuring set.
- 3.06 Insert the No. 202 plug associated with the No. 220 plug in the receiving jack of the transmission measuring set.
- 3.07 Operate the key of the No. 220 plug to the R position.
- 3.08 Measure the transmission loss.

Note: This is the loss of the monitor set in the receiving condition.