NO. 750-A PRIVATE BRANCH EXCHANGE

1. GENERAL

1.01 This section covers the detailed methods to be followed in making transmission tests on circuits associated with the No. 750-A private branch exchange.

1.02 The information covered in this section of practices is outlined as follows:

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. TESTING METHODS

(A) Link Circuits

2.01 A No. 1-C transmission measuring set and its associated oscillator should be used for testing the link circuits. The 3-B transmission measuring set cannot be used for these tests since the voltage of the P.B.X. battery is not adequate to operate this type of measuring set.

2.02 These circuits should be tested from the incoming terminal strip on the apparatus frame in back of the apparatus frame gate.

2.03 The testing should be done during a period of light traffic load so that the busying of the links will not interfere with service.

2.04 Figure 1 shows schematically the connection for the test.

Preliminary Connections

2.05 Provide two regular double ended patching cords equipped with No. 110 plugs and two special patching cords equipped on one end with No. 110 plugs and on the other with No. 234 plugs or clips of a type suited to the punchings of the terminal strip.

2.06 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 of the regular patching cords.

2.07 Connect the LS jack of the auxiliary test unit to the T and R terminals of an idle station line on the incoming terminal strip using one of the special patching cords.

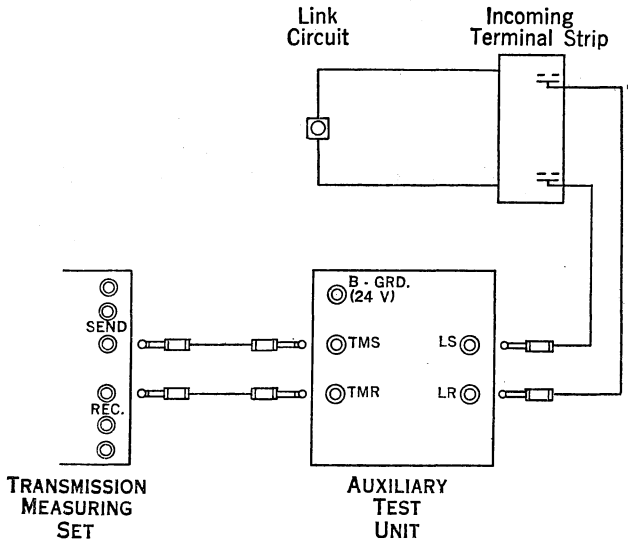

Fig. 1

2.08 Connect the LR jack of the auxiliary test unit to the T and R terminals of another idle station line on the incoming terminal strip using one of the special patching cords.

Testing Procedure

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

Key 1 to OPEN
Key 2 to OPEN
Key 3 to MET

2.10 Operate the link cutout keys on the links other than the one to be tested in order that this link may be selected.

2.11 Dial the number of the idle station line which is connected to the LR jack of the auxiliary test unit.

2.12 Restore the link cutout keys which were operated in accordance with paragraph 2.10.

2.13 Operate Key 4 of the auxiliary test unit to MET.

2.14 Operate Key 1 and Key 2 of the auxiliary test unit to HOLD.

2.15 Measure the transmission loss.

2.16 Release the link circuit by operating Key 1 and Key 2 of the auxiliary test unit to OPEN.

2.17 Repeat the testing procedure outlined in paragraphs 2.09 to 2.16, inclusive, until all of the links have been tested.

(B) Central Office Trunk Circuits

2.18 There is no transmission apparatus in the P.B.X. end of a central office trunk circuit and ordinarily the trunk circuits would not require transmission tests. However, if it is desired to make a transmission test of the trunk conductors, it is suggested that the test be made by the straightaway method.

2.19 To carry out such a trunk test, sending power should be placed on the circuit at the central office, and connection to the transmission measuring set for receiving should be made at the P.B.X. terminal strip.