

## COIN BOX TRUNKS

### 1. GENERAL

1.01 This section covers the detailed method to be followed in making transmission tests on coin box trunks at 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. TESTING METHOD

2.01 These circuits are tested at the test jacks of the trunk relay rack for the conditions of "Non-Charge" or "Free" and "Charge" calls.

2.02 The connections to the transmission measuring set are completed from the test jacks of the respective coin box trunks to be tested and a connector test line circuit.

2.03 Figure 1 shows schematically the connections for the test.

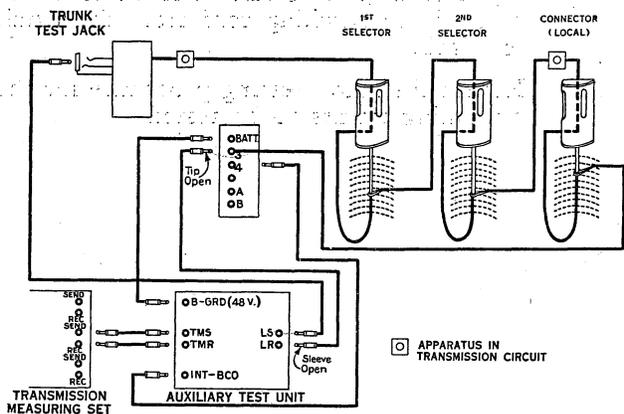


Figure 1

#### Preliminary Connections

2.04 Provide five regular double ended patching cords equipped with 110 type pugs and one special patching cord equipped and connected as indicated below.

110 Type Plug connected to a 110 Type Plug

Tip	Ring
Ring	Sleeve
Sleeve Open	Tip Open

2.05 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.

2.06 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 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.

2.07 Connect the INT-BCO jack of the auxiliary test unit to jack No. 4 of the test line group using a regular patching cord.

2.08 Connect the LR jack of the auxiliary test unit to the connector test line circuit (jack No. 3 of the connector, test line group) using the special patching cord. The plug with the "open sleeve" should be inserted in the LR jack of the auxiliary test unit and the plug with the "open tip" in the jack of the test line circuit (jack No. 3).

2.09 Insert the 110 type plug of a regular patching cord in the LS jack of the auxiliary test unit.

2.10 Insert an operator's telephone set in the telephone set jacks of the auxiliary test unit.

#### 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 4 to MET
Key 2 to OPEN	Key 5 to BATT
Key 3 to MET	Key 12 to SL
	Key 15 Depressed and locked

2.12 Insert the plug of the patching cord connected to the LS jack of the auxiliary test unit into the test jack of a trunk to be tested.

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

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

- 2.14 In line switch offices sweep the master switch having access to the trunk selected in paragraph 2.13 to pick up any disengaged plungers.

Note: In some offices a key is provided on the trunk relay rack for this purpose, but where none is provided, the sweeping of the master switch may be done manually if extreme care is exercised.

- 2.15 Operate key 12 of the auxiliary test unit to CBG.
- 2.16 Operate key 1 of the auxiliary test unit to TEST, listen for dial tone and dial the test number.

Note: When the connection has been completed to the auxiliary test unit, the sleeve lamp associated with the LR jack should light.

- 2.17 Operate key 1 of the auxiliary test unit to HOLD.

### (a) "Non-Charge" or "Free" Call Condition

- 2.18 To maintain the trunk circuit in the "Free" or "Non-Charge" call condition, the called side (LR jack of the auxiliary test unit) of the trunk must be kept free from any holding bridge and to do this, it is important that the testing procedure be followed exactly in the order as outlined.
- 2.19 Measure the current supply from the calling end of the trunk which is connected to the LS jack of the auxiliary test unit.

With key 1 and key 3 of the transmission measuring set in the normal posi-

tion, operate key 5 to PLUS TIP and key 6 to REV.

- 2.20 While depressing key 9 of the auxiliary test unit, read the current supply.

Release key 9 of the auxiliary test unit and restore key 5 and key 6 of the transmission measuring set to normal. Operate key 1 of the transmission measuring set to REC and key 3 to MEAS.

- 2.21 Operate key 11 of the auxiliary test unit to OPEN.
- 2.22 Depress and lock key 10 of the auxiliary test unit.
- 2.23 Operate key 2 of the auxiliary test unit to HOLD.
- 2.24 Measure the transmission loss.

Note: This is the loss of the trunk circuit in the "Non-Charge" or "Free" call condition and includes the loss of a local connector circuit.

### (b) "Charge" Call Condition

- 2.25 Release key 10 of the auxiliary test unit.
- 2.26 Measure the transmission loss.

Note: This is the loss of the trunk circuit in the "Charge" call condition and includes the loss of a local connector circuit.

- 2.27 Release the trunk and connector circuit by operating key 1 and key 2 of the auxiliary test unit to OPEN and remove the plug of the patching cord from the trunk test jack.
- 2.28 Repeat the above testing procedure for the remaining trunks to be tested.