

LOCAL AND TRANSMISSION SELECTORS

1. GENERAL

- 1.01 This section covers the detailed methods to be followed in making transmission tests on local, toll transmission and A-B toll transmission selectors.
- 1.02 Information covered in this section of practices is outlined in the following table.
- | Subject | Page |
|--------------------------------------|------|
| 1. General | 1 |
| 2. Local Selectors | 1 |
| 3. Toll Transmission Selectors | 1 |
| 4. A-B Toll Transmission Selectors . | 2 |
- 1.03 Reference should be made to Section K20.01 for general testing methods and to Section K20.11 for general testing apparatus requirements.

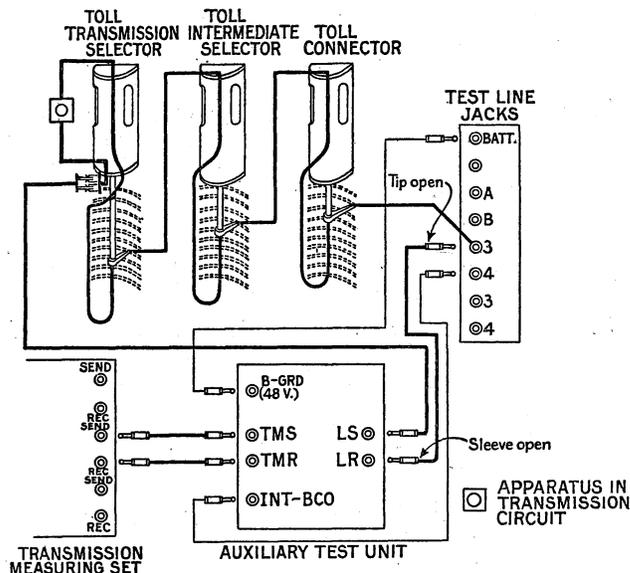


Figure 1

2. LOCAL SELECTORS

- 2.01 These selectors have no equipment in the transmission circuit and do not require transmission tests.

3. TOLL TRANSMISSION SELECTORS

- 3.01 Where transmission selectors are preceded by incoming selectors, it is not practicable to test the transmission selectors in connection with tests of the trunks with which they normally operate. In these cases, tests of the transmission selectors should be made as outlined below. In cases where toll transmission selectors are not preceded by an incoming selector, this test may be omitted since the toll transmission selector will be tested in connection with a trunk.
- 3.02 These selectors should be tested from the test jacks of the selectors to be tested and the connections to the transmission measuring set completed from the test jacks of the respective toll transmission selectors to be tested and an associated connector test line circuit.
- 3.03 Figure 1 shows schematically the connections for the test.

Preliminary Connections

- 3.04 Provide four regular double-ended patching cords equipped with 110 type plugs, one No. P3C cord equipped with a No. 110 plug and a No. 240-A plug (No. 4 Terminal

Open), and one special patching cord, equipped and connected as follows:

110 Type Plug connected to 110 Type Plug

Tip	Sleeve
Ring	Ring
Sleeve Open	Tip Open

- 3.05 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 of the regular patching cords.
- 3.06 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 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.
- 3.07 Connect the INT-BCO jack of the auxiliary test unit to jack No. 4 of the connector test line group, using a regular patching cord.
- 3.08 Connect the LR jack of the auxiliary test unit to the test line circuit (jack No. 3 of the connector test line group), which appears in the same test line circuit group as jack No. 4, using the special patching cord of paragraph 3.04, inserting the plug with the "open sleeve" in the LR jack and the

SECTION K23.11

plug with the "open tip" in the connector test line circuit jack (jack No. 3).

- 3.09 Insert the No. 110 plug of the No. P3C cord of paragraph 3.04 in the LS jack of the auxiliary test unit.

Testing Procedure

- 3.10 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 3 to MET
Key 2 to OPEN Key 4 to MET
Key 15 Depressed and locked

- 3.11 Insert the No. 240-A plug of the No. P3C cord connected to the LS jack of the auxiliary test unit into the test jack of an idle toll transmission selector to be tested and operate key 1 of the auxiliary test unit to TEST.

Note: Before operating key 1 of the auxiliary test unit to TEST, inspect the shaft and wiper to determine if the transmission selector is still idle. If the transmission selector is not idle, another transmission selector should be chosen for test and the operation just outlined repeated.

- 3.12 Dial the proper number to reach the connector test line circuit. This number depends upon the transmission selector group arrangement and the connector terminal assigned for the connector test line circuit.

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

- 3.13 Operate key 1 and key 2 of the auxiliary test unit to HOLD.

Note: The sleeve lamp associated with the LR jack remains lighted until the selector is released.

- 3.14 With the transmission measuring set in the measuring condition, test the selector for cutouts by tapping the cover and carefully tapping the wiper cords with a pencil.

- 3.15 Measure the transmission loss.

Note: This is the loss of the toll transmission selector together with the wiring through the toll intermediate selectors and a toll connector circuit together with the wiring of the test line circuit.

- 3.16 Measure the current supplied from the toll transmission selector circuit (called subscriber's end, which is associated with the LR jack of the auxiliary test unit) while depressing key 10 of the auxiliary test unit to remove the holding bridge from the circuit.

- 3.17 Release the toll transmission selector and associated testing circuit by operating key 1 and key 2 of the auxiliary test unit to OPEN and removing the No. 240-A plug from the test jack.

- 3.18 Repeat the above testing procedure for the remaining toll transmission selectors to be tested.

4. A-B TOLL TRANSMISSION SELECTORS

- 4.01 These selectors should be tested in the same manner as toll transmission selectors as covered in paragraphs 3.01 to 3.18, inclusive.