SELECTOR TRUNKS
CONTINUITY TESTS
701A AND 711A PBX

1. GENERAL

1.01 This section describes a method of testing the continuity of trunks from selector levels of selectors and selector connectors in a No. 701-A P B X.

1.02 This section is reissued to cover a method for making selector-connector trunk continuity tests, to cover a method for insuring the continuous operation of the ringing machine during the tests and replaces Provisional Standard Issue 1.

1.03 This routine should be made from one selector or selector connector in each multiple bank division. A different switch should be used each time, so that all trunks will eventually be tested from all selectors. A sequence such as 1, 6, 2, 7, 3, 8, etc., is desirable. Incoming switches should not be tested on the zero level.

1.04 When Section 542-010-666 is scheduled, this routine may be omitted on the levels involved.

1.05 Any trunk on which a failure is encountered when making this routine should be made busy until the trouble is cleared.

2. APPARATUS

2.01 Dial Hand Test Set equipped with a No. 2-CB Dial and a No. 240-A Plug.

2.02 No. 375 Tool (for selector-connectors only).

2.03 No. 760 Cord (length as required).

3. METHOD

3.01 When measures must be taken to insure the continuous operation of the ringing machine during these tests, ground the generator start lead with the No. 760 cord.

3.02 **Selectors:** Note that the switch under test is idle. Remove the switch cover and connect the dial hand test set to the test jack.

3.03 Operate the C button. Dial the switch to the level to be tested and observe that it stops on the first idle trunk.

3.04 Step the switch to the last rotary position by rapidly opening and closing the off-normal springs. The selector should advance and stop on each idle trunk without chattering. Observe that the switch rotates automatically over trunk terminals, which are strapped to the last working trunk on a level in a case where the level is not completely equipped with working trunks. This will also occur on busy trunks. Note that the busy tone is heard in the receiver when the switch reaches the 11th rotary position.

3.05 Release the switch by releasing the C button.

3.06 Repeat the tests, paragraphs 3.03 and 3.05 on each level.

3.07 The failure of the switch to step when the off-normal springs are operated usually indicates an open trunk. The switch should be held on the trunk until the trunk is made busy or the trouble is cleared. Replace the switch cover.

3.08 **Selector Connectors:** Note that the switch under test is idle. Remove the switch cover and connect the dial hand test set to the test jack.

3.09 Operate the C button. Dial the switch to the level to be tested and observe that it stops on the first idle trunk.

3.10 With the hand test set still in the test jack and the C button operated, cross the sleeve and ground springs of the test jack with a No. 375-A tool and then block the F relay in an operated position. Release the C button of the hand test set and manually rotate the switch shaft to the next contact. The H relay will remain operated if the contact is busy or in trouble. Monitor on the connection to see that the line is actually busy. If busy, rotate the shaft to the next contact. If the H relay is normal operate the C button and note that the H relay operates.

3.11 When the last trunk or tie line is tested, rotate the shaft to the 11th position and note that busy tone is heard in the test receiver. Remove the No. 375-A tool, disconnect the dial hand test set, and restore the F relay to normal.

3.12 Remove the No. 760 cord used in 3.01.

4. REPORTS

4.01 The required record of this routine should be entered on the proper form.