

INTERCEPTING TRUNKS
JACK AND LAMP CIRCUIT TESTS
700C PBX
(MANUAL SWITCHBOARD)

1. GENERAL:

1.1 This section covers tests of the jacks for cut-outs, sleeve circuit and lamp jack frames for crosses.

1.2 The tests given above check the features of the circuit not covered in Section 541-003-668.

2. APPARATUS:

2.1 Test Receiver (No. 528 or equivalent) equipped with cords and clips and Test Plug (minimum size).

3. METHOD:

3.1 **Trunk Jack Cut-out Test:** Connect the test receiver across the tip and ring terminals of the test plug. At a nearby available extension, lift the receiver and if the dial tone is heard, dial a vacant terminal. When the lamp associated with the intercepting trunk lights, insert the test plug into the jack and manipulate the test plug to determine whether the trunk cuts out. This should be done by grasping the plug at the cord end and while applying a sideward pressure (that is, away from the centre of rotation), move the plug through a complete circle. Hang up the receiver on the nearby extension and disconnect the test plug and receiver.

3.2 **Sleeve Circuit Test:** To test that the sleeve battery contact is open, make a busy test on the sleeve of the jack of the intercepting trunk circuit. No click should be heard.

3.3 Insert the test plug into the trunk jack and make a busy test on the sleeve of the test plug. A click should be heard. This tests the tip make contact of the jack and the make contact of the cut-off relay. Disconnect the test plug from the jack.

3.4 **Lamp Jack Frame Test for Crosses:** (Non-multiple boards.) Connect one clip of test receiver to the tip of an idle plug and touch the other clip to the metal frame of the trunk lamp cap. No click should be heard. Disconnect the test receiver.

3.5 (Multiple boards) Operate the talk and dial key of an idle cord circuit and touch the tip of the associated front plug to the metal frame of the trunk lamp cap. No click should be heard. Restore the talk and dial key.

4. REPORTS:

4.1 The required record of these tests should be entered on the proper form.