

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

### 1. GENERAL:

1.1 This section describes tests of the jacks for cut-outs, sleeve circuit, register circuit and lamp jack frame for crosses.

1.2 The tests given above check the features of the circuit not covered in Section 541-003-666.

### 2. APPARATUS:

2.1 Test Receiver (No. 528 or equivalent) equipped with cords and clips, No. 760 Cord, and Test Plug (minimum size).

### 3. METHOD:

3.1 **Trunk Jack Cut-out Test:** Non Multiple Boards: Connect one clip of the test receiver to the sleeve of an idle back plug and connect the other clip to the ring terminal of the test plug. Connect the tip terminal of the test plug to the tip of an idle plug. At a nearby available dial extension lift the receiver and when the dial tone is heard, dial zero. When the associated lamp lights, insert the test plug into the attendant trunk jack and manipulate the plug to determine whether the jack 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 and disconnect the test plug from the trunk.

Note: As it will be necessary to make busy one or more attendant's trunks in order to test them all, this test should be made at a time when the traffic is light so that it will not interfere with the service. An attendant trunk can be made busy by inserting an idle back plug into an associated jack.

3.2 Multiple Boards: Connect test receiver to the tip and ring terminals of the test plug. Insert an idle back plug into

one jack of the circuit under test and insert the test plug into an associated jack. Manipulate the plug to determine whether the jack 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. Repeat this test at each multiple jack appearance and restore the circuit to normal.

3.3 **Test of Sleeve Circuit:** To test that the sleeve ground contacts are open, make a busy test on the sleeve of a jack of the attendant trunk circuit under test. No click should be heard.

3.4 Insert an idle back plug into a jack of the attendant trunk circuit. The supervisory lamps should light. Repeat the test at any multiple jack appearances. This tests the tip make contacts of the jacks and the sleeve ground make contact of the cut-off relay.

3.5 **Test of All Trunks Busy Register Circuit:** Note the reading on the register. Then momentarily make all of a group of attendant trunks busy by inserting idle back plugs into the associated jacks and then disconnecting them. Again read the register which should have scored one. Note: **This test should preferably be made at a time when it will not interfere with service.**

3.6 **Test of Lamp Jack Frame for Crosses:** With one clip of the test receiver connected to the sleeve of an idle back plug, touch the other clip to the metal frame of each lamp cap associated with the trunk under test. No click should be heard. Disconnect the test receiver.

### 4. REPORTS:

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