

LOCAL CONNECTORS AND SELECTOR-CONNECTORS OPERATION TESTS 701A AND 711A PBX

1. GENERAL

- 1.01 This section describes a method of testing the operating features of local connectors and selector-connector in a No. 701-A or No. 711-A P B X
- 1.02 This section has been revised to include the use of test set SD-90416-01 (J94704A).
- 1.03 Any switch on which a failure is encountered should be made busy until the trouble is cleared.

2. APPARATUS

- 2.01 Test Set per SD-66073-01 (J54701A) or SD-90416-01 (J94704A).
- 2.02 Attendant's Telephone Set or Dial Hand Test Set equipped with a No. 4CB Dial and a No. 240A Plug.
- 2.03 One W2M Cord equipped at one end with a No. 110 Plug and at the other end with two No. 59 Cord Tips.
- 2.04 One P3C Cord equipped with a No. 110 Plug and a No. 240A Plug.
- 2.05 One P3E Cord equipped with a No. 110 Plug at each end.
- 2.06 One No. 760 Cord.

3. PREPARATION

3.01 Locate the test set at the connector or selector-connector side of the switch frame. Connect the W2M cord to the BAT-G (or BAT) jack of the test set. Connect the No. 59 cord tip on the sleeve conductor (red) to ground and the other No. 59 cord tip on the tip conductor (white) to the equipment end of a fuse on the fuse panel.

3.02 Connect an attendant's telephone set to the TEL jacks of the test set or a dial hand test set to the HS jack of the test set.

Note 1: When using a dial hand test set with test set SD-66073-01 operate the TRS key, or if using it with test set SD-90416-01 operate the HS key. Also operate the C button of the dial hand test set and use the hand set dial instead of the test set dial in making tests.

Note 2: When using an attendant's telephone set with either test set SD-66073-01 or SD-90416-01 the TRS key should be left in the normal position except when it may be found necessary to talk over the test line.

3.03 When it is necessary to insure continuous operation of the ringing machine during these tests, ground the generator start lead with the No. 760 cord.

3.04 Connect the No. 110 plug of the P3C cord to the T jack of the test set.

4. LOCAL CONNECTOR OPERATION TEST

4.01 Insert one plug of the P3E cord into the TL jack of the test set and the other plug into the TL jack of the test line circuit on the switch frame.

4.02 Insert the No. 240A plug of the P3C cord connected to the T jack of the test set into the test jack of the switch under test. Observe that the BSY lamp is not lighted, indicating that the switch is idle.

4.03 Operate the P B X key (if provided) and the LP key and note that the BSY lamp lights.

4.04 Dial the terminal assigned to the test line. When testing regular connectors the switch should stop on the terminal corresponding to the number dialed. When testing rotary hunting connectors the switch should pass the terminal corresponding to the number dialed and should stop on the next terminal. Note that busy tone is heard in the receiver and that the test line bell does not ring.

4.05 Restore the LP key and observe that the switch releases and that the BSY lamp is extinguished.

4.06 Operate the ID key of the test set to remove the busy ground from the test line.

4.07 Operate the LK key and note that the BSY lamp lights. Dial the test line number. Note that the test line bell rings and that the audible ringing signal is heard in the receiver.

Note: If the bell stops ringing, it is an indication of a premature trip. When testing rotary hunting connectors, the test terminal preceding the test line terminal should be dialed and it should be noted that the connector hunts over the busy terminal and selects the test line terminal.

4.08 Momentarily operate the TP key during a silent period and reoperate it to the ID position. Note that the test line bell does not ring during the following ringing interval.

Note: If using test set SD-90416-01 note that the REV lamp lights while the TP key is operated, unless the switch is not arranged to reverse battery.

4.09 Operate the T key. Tone should be heard in the receiver.

Note: If using test set SD-90416-01 note that the REV lamp again lights while the T key is operated unless the switch is not arranged to reverse battery.

4.10 If using test set SD-66073-01 operate the REV key of the test set and observe that the REV lamp lights, indicating a reversal of battery and ground from the switch.

4.11 Release the LK key and REV key (if operated). Observe that the BSY and REV lamps are extinguished and that the switch restores to normal. Restore the ID and T keys and P B X key (if provided).

5. SELECTOR-CONNECTOR OPERATION TEST

Connector Operation Features

5.01 Proceed as in 4.01 to 4.09 inclusive except that the REV lamp should not light as indicated in 4.08 and 4.09 and dial tone should be heard in the receiver after performing 4.03 and after operating the LK key in 4.07.

SECTION 542-010-521

5.02 After hearing the test line tone release the LK key and observe that the BSY lamp is extinguished and that the switch restores to normal. Restore the ID and T keys and the P B X key (if provided).

Selector Operation Features

5.03 Operate the P B X key (if provided) and the LP key and note that the BSY lamp lights and that dial tone is heard in the receiver.

5.04 Dial the designated working rotary level and note that the switch steps smoothly to the proper level and rotates to an idle contact. The REV lamp on the test set should not light.

Note 1: When using test set SD-90416-01 the loop test should not be made on rotary levels used for dial selected tie trunks.

Note 2: When central office trunks or tie trunks on the level to which the switch is connected terminate before an operator or attendant an incoming call will be indicated. In such cases operate the TRS key, if using an attendant's telephone set, and when the operator or attendant answers advise that the line is being tested.

5.05 Release the switch by restoring the LP key and the P B X key (if provided). Note that the BSY lamp is extinguished when the switch releases.

5.06 Operate the P B X key (if provided) and LK key and repeat operations described in 5.04 and 5.05.

6. REPORTS

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