

SELECTORS AND CONNECTORS  
OPERATION TESTS  
USING TEST SET SD-90210-01  
702A PBX

1. GENERAL

1.01 This section describes a method of testing the operating features of selectors and connectors of the No. 702-A P B X by means of the test set per SD-90210-01. The tests are as follows:

(A) Selector Operation Test.

(B) Connector Operation Test.

- 1.02 When testing an incoming selector arrange to have the associated tie line made busy at the other end.
- 1.03 Any selector or connector on which a failure is encountered should be made busy until the trouble is cleared.
- 1.04 Connector terminal 99 should be dialed when performing the routine on regular and hunting connectors. Hunting connectors should hunt over terminal 99 and seize terminal 90.
- 1.05 The selector operation test may be omitted when varying tests of the switches are made.

2. APPARATUS

- 2.01 Test Set per SD-90210-01 (J-34704-A).
- 2.02 Attendant's Telephone Set or Dial Hand Test Set equipped with a No. 2-CB Dial and a No. 240-F Plug. (Lamp omitted.)
- 2.03 Two No. P3E Cords equipped with No. 110 Plugs.
- 2.04 One No. P3C Cord equipped at one end with a No. 110 Plug and at the other end with a No. 240-F plug. (Lamp omitted.)

3. METHOD

(A) Selector Operation Test

- 3.01 See that each test set key is in the normal position.
- 3.02 Connect the BAT jack of the test set to the BAT jack on the selector frame using a P3E cord.
- 3.03 Connect the operator's telephone set to the TEL jacks of the test set or a dial hand test set to the HS jacks of the test set. In the latter case operate the TRS key of the test set. Also, in making tests operate the C button in the hand set and use the hand set dial instead of the test set dial.
- 3.04 Connect the T jack of the test set to the test jack of the switch under test using the P3C cord.
- 3.05 Operate the SD key and leave it operated throughout the test.
- 3.06 Operate the LP key and note that the BSY lamp lights.
- 3.07 Dial nine and note that the switch steps smoothly to the ninth level and rotates to an idle terminal. Immediately release the LP key.

Note: When testing two digit rotary hunting selectors dial 99.

- 3.08 Note that the BSY lamp is extinguished when the switch restores to its normal position.
- 3.09 Operate the LK key and repeat the operations in paragraphs 3.07 and 3.08 employing the LK instead of the LP key.

- 3.10 Restore all keys to normal and disconnect the testing apparatus.

(B) Connector Operation Test

- 3.11 Prepare the test set in accordance with paragraphs 3.01 to 3.04.
- 3.12 Connect the TL jack of the test set to the TL jack of the test line on the connector frame.
- 3.13 Operate the SD key and leave it operated throughout the test.

Busy Line Test

- 3.14 Operate the LP key and note that the BSY lamp lights.
- 3.15 Dial the terminal assigned to the test line. Note that the connector selects the test line terminal and that busy tone is heard as soon as the test line terminal is seized.
- Note: Should the connector stop on any other terminal immediately restore the LP key to avoid ringing an extension line.

- 3.16 Restore the LP key and observe that the switch restores to normal and that the BSY lamp is extinguished.

Ring and Pre-Trip Test

- 3.17 Operate the ID key to remove the busy ground from the test line terminal.
- 3.18 Operate the LK key and observe that the BSY lamp lights. Dial the test line number and observe that the audible ringing signal is heard in the receiver and that the test line bell rings.
- 3.19 Restore the ID key and reoperate it during ringing periods at least twice. The test line bell should continue to ring.

Tripping Test

- 3.20 Momentarily operate the TP key during a silent period and reoperate it to the ID position. The bell on the test line should not ring again. The REV lamp should light while the TP key is operated.

Talking and Hold Test

- 3.21 Operate the T key. Tone should be heard in the test set receiver and the REV lamp should light.
- 3.22 With the T key operated, release the LK key. Note that the switch does not release and that the BSY lamp flashes and the REV lamp is extinguished. Reoperate the LK key and observe that the BSY lamp becomes slightly brighter and the REV lamp lights.
- 3.23 Restore the T key and note that tone is removed, also that the REV lamp is extinguished.
- 3.24 Restore the ID and LK keys and note that the switch restores to normal and the BSY lamp is extinguished.
- 3.25. Restore all keys to normal and disconnect the testing apparatus.

4. REPORTS

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