

## ATTENDANT TELEPHONE AND DIALING CIRCUIT TESTS AND INSPECTIONS 606B AND 607A PBX

### 1. GENERAL

- 1.01 This section describes a method of testing the attendant telephone and dialing circuit in the No. 606B and No. 607A P B X's. It also covers the purpose of each test.
- 1.02 This section is reissued to include the No. 607A P B X. The rating formerly was A.T.&T. Co. Provisional.
- 1.03 The tests covered are:
  - (A) Cord and Jack Cutout Test
  - (B) Test of Dialing Circuit
  - (C) Test of Dial Speed
  - (D) Test of Monitoring Circuit
- 1.04 The position under test should not be occupied by an attendant during these tests. The tests should be performed during periods of light traffic when the trunks required can be used without delaying normal traffic.
- 1.05 Cord circuit test line circuit SD-66625-01 is employed in testing both the No. 606B P B X and the No. 607A P.B.X.
- 1.06 Tie trunk test line circuit SD-66533-01 is employed in testing the No. 606B P B X only.

### 2. APPARATUS

- 2.01 Attendant telephone set.
- 2.02 No. 32B test set.
- 2.03 No. 716E receiver or No. 528 receiver equipped with one R2CU cord and one No. 309 plug (2W29A cord).

### 3. METHOD

#### (A) Cord and Jack Cutout Test

- 3.01 This test checks the reliability of the contact between the tips of the attendant telephone set plug and the springs of the attendant telephone set jacks. It also checks the telephone set cord for cut-outs and noise.
- 3.02 Insert the plug of the attendant telephone set into the C and D jacks (right-hand pair) of the position under test and listen in the receiver.
- 3.03 Note that sidetone is heard without excessive noise. Shake and slightly twist the telephone set cord between the fingers. Move the plug of the telephone set in the telephone jacks and shake the plug gently while in the jacks. Note that no clicks or scratchy noises are heard in the attendant receiver.
- 3.04 Disconnect the plug of the attendant telephone set from the C and D jacks, connect it to the A and B jacks (left-hand pair), and repeat 3.03.
- 3.05 Disconnect the attendant telephone set.
- 3.06 Repeat 3.02 to 3.05 inclusive for all spare attendant telephone sets to be tested.

#### (B) Test of Dialing Circuit

- 3.07 This test checks the over-all operation of the dialing circuit, including operation of the splitting relay when the dial is moved off normal, removal of the 1000 ohm shunt from the 440 ohm retardation coil when the dial comes to rest, and cutoff of the attendant telephone set during dialing.
- 3.08 Connect the test receiver to the nearest SP jack of the cord circuit test line circuit. Connect a rear cord to the next multiple SP jack. Connect a front cord at the position under test to the nearest RA jack and the associated rear cord to the nearest FC jack of the test line circuit, and observe that the rear cord lamp lights. Connect the No. 32B test set to the nearest T jack of the test line circuit. Operate and hold the red button of the test set and observe that the lamp of the rear cord at the position under test remains lighted.
- 3.09 **Operation of Splitting Relay:** Listen in the test receiver and operate the talk and dial key of the cord connected to the RA jack. Pull the dial slowly off normal only until a click is heard. Observe that the lamp of the rear cord at the position under test is extinguished. Release the red button of the No. 32B test set.
- 3.10 **Non-inductive Shunt Across Retardation Coil:** Let the dial restore unrestrained to normal and note that two clicks are heard in quick succession. To hear this double click more clearly, it may be necessary to hold the test receiver very close to the ear. The first click is caused by opening of the short-circuit across the retardation coil and the parallel non-inductive shunt in the dialing circuit. The second click is caused by the opening of the non-inductive shunt across the retardation coil. Disconnect the test receiver, the No. 32B test set and the rear cord from the FC jack.
- 3.11 **Cut-Off of Attendant Telephone Set During Dialing:** Connect the attendant telephone set to the position under test, listen in the receiver, and dial zero. (The talk and dial key is operated on a front cord connected to the nearest RA jack and a rear cord is connected to a remote SP jack.) Note that no clicks are heard during pulsing. Slight clicks may be heard when the dial is moved off normal and when it restores. Restore the talk and dial key and disconnect the front cord from the RA jack.
- 3.12 **No. 606B P B X Only. Reduction of Clicks to Station During Dialing and Release of Splitting Relay After Dialing on an Attendant Connector:** With the rear cord still connected to the remote SP jack connect the associated front cord to the adjacent FC jack. Connect the test receiver to the FC jack nearest the position under test. Connect a rear cord at the position under test to the nearest RA jack and connect the associated front cord to a jack of an idle trunk to an attendant connector circuit. While listening in the test receiver, operate the talk and dial key of the cord connected to the attendant connector and dial 99 (test line SD-66533-01). Note that no excessive clicks are heard during dialing. When dialing is completed, note that interrupted tone is heard, and observe that the cord lamp flashes.

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3.13 Restore the talk and dial key. Disconnect all cords, the test receiver and the attendant telephone set.

### (C) Test of Dial Speed

3.14 This test checks that the dial speed is within proper limits.

3.15 Connect the attendant telephone set to the position under test. Operate the talk and dial key of a cord and connect the associated front cord to a jack of a trunk having access to the dial speed testing equipment assigned for use with this P.B.X. Check the dial speed in the regular manner. Then restore the talk and dial key and disconnect the cord and the attendant telephone set.

### (D) Test of Monitoring Circuit

3.16 This test checks the operation of the position monitoring key, and the monitoring circuit.

3.17 Connect the attendant telephone set to the position under test. Operate the talk and dial key of a cord and connect the associated front cord to a jack of an outgoing trunk to a local dial central office. Note that dial tone is heard in the attendant telephone set receiver. Operate the position monitoring key and note that dial tone is still heard. Dial zero and note that clicks are not heard and that dial tone is still heard. Tap on the transmitter of the attendant telephone set and note that the taps are not heard in the receiver. Restore the talk and dial key and disconnect the cord and the attendant telephone set.

## 4. REPORTS

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