

ATTENDANT TELEPHONE AND DIALING CIRCUIT
TESTS AND INSPECTIONS
606A PBX

1. GENERAL

1.01 This section describes tests of the attendant telephone and dialing circuit in the 606A PBX.

The tests are as follows:

- (A) Jack Cutout Test
- (B) Click Reduction Circuit Test
- (C) Test of Operation of Busy Test Relay
- (D) Test of Dial Circuit Relays
- (E) Test of Receiver Shunt Relays and Dial Operation
- (F) Test of Monitoring Feature

This section has been reissued to change the title for clarification purposes and convert it to letter size.

1.02 When any of these tests are conducted on a routine basis, they should preferably be made during periods of light traffic to avoid interference with service.

2. APPARATUS

Tests (A), (B), (C), (E), and (F)

2.01 Attendant's Telephone Set.

Test (D)

2.02 No. 760 Cord (Less No. 90 Cord Tips).

2.03 Test Receiver (No. 528 or equivalent) equipped with Cords and Clips.

3. PREPARATION

3.01 For test (D) the use of a spare trunk circuit, with ground and battery connected to the tip and ring respectively by the insertion of an idle back cord plug into a multiple jack of the spare trunk circuit, will be required.

3.02 Ground required for the tests covered herein shall be obtained from the key cam of an operated talk and dial key of an idle cord not involved in the test, unless otherwise specified in the test.

4. METHOD

(A) Jack Cutout Test

4.01 Insert the plug of an attendant's telephone set into the telephone jacks of the switchboard position to be tested. Note that sidetone is heard in the attendant's receiver and that there is no excess noise.

4.02 Move the attendant's telephone set plug in the telephone jacks and shake the plug gently while in the jacks to detect poor contacts between the tips of the plug and the springs of the jacks to test for cutouts. Clicks or disturbances in the attendant's receiver indicates a trouble condition.

(B) Click Reduction Circuit Test

4.03 With the attendant's telephone set still inserted in the telephone jacks, observe that the filament of the vacuum tube at the rear of the position is lighted. Operate the EM key and observe that the filament of the vacuum tube is extinguished. With the EM key still operated, insert the front plug

of an idle cord circuit into a central office trunk jack. Operate the associated talk and dial key and note that the dial tone or the central office operator is heard satisfactorily.

4.04 Restore the EM key and note that dial tone or the central office operator is still heard satisfactorily and no objectionable clicks are heard in the attendant's receiver. Disconnect the cord and restore the talk and dial key to normal.

(C) Test of Operation of Busy Test Relay

4.05 Insert the plug of an idle cord circuit into an extension line jack. Touch the tip of a front plug of another idle cord circuit to the sleeve of the plug inserted in the extension line jack. Immediately upon touching the sleeve a distinct click should be heard in the attendant's receiver.

(D) Test of Dial Circuit Relays

4.06 Connect the sleeve of the front plug of a cord circuit selected for the test to ground using a No. 760 cord. Connect one clip of the test receiver to the tip of the plug and the other clip to ground. Hold the ring of the plug of another idle front cord to the ring of the cord under test. Operate the talk and dial key of the associated cord circuit selected for the test and dial the digit five. Note that dial pulses are heard in the test receiver.

4.07 Insert the front plug of the cord circuit under test into the spare trunk circuit jack referred to in 3.01. Connect the sleeve of the associated back plug to ground using a No. 760 cord and connect the test receiver across the tip and ring of the plug. Operate the talk and dial key of the associated cord circuit under test and dial the digit five. No dial pulses should be heard in the test receiver. Remove the test cord and the test receiver and restore the cord circuits to normal.

(E) Test of Receiver Shunt Relays and Dial Operation

4.08 Operate the talk and dial key of an idle cord circuit and insert the associated front plug into a central office trunk jack. Dial the test desk or test code and check the dial speed. While dialing, note that the dial pulses are not heard in the attendant's receiver. After dial speed has been checked, restore the cord circuit to normal.

(F) Test of Monitoring Feature

4.09 With an attendant's telephone set connected to the position under test, talk with an attendant or some other person, using an idle cord circuit and an idle extension line or trunk circuit. Operate the associated monitoring key while the attendant or person is talking and observe that the reception is satisfactory. Tap on the transmitter of the attendant's telephone set and note that this noise is not heard in the attendant's receiver. If this test is satisfactory it is an indication that the monitoring feature of the attendant's telephone and dial circuit is operating properly.

4.10 Restore the cord circuit to normal and remove the attendant's telephone set from the telephone jacks.

5. REPORTS

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