

**ATTENDANT TELEPHONE AND DIALING CIRCUIT
TESTS AND INSPECTIONS
607B PBX**

1. GENERAL

1.01 This section describes a method of testing the attendant telephone and dialing circuit of the No. 607B PBX

1.02 The tests covered are:

(A) Cord and Jack Cut-out Test

This test checks the reliability of contact between the plug of the attendant telephone set and the telephone set jacks. It also checks the cord of the attendant telephone set for noise.

(B) Operation of Dialing Circuit

This test checks the operation and release of the splitting relay, reduction of clicks to calling station, removal of the 1000 ohm shunt from the 440 ohm retardation coil when the dial comes to rest, and cut-off of the attendant telephone set during dialing.

(C) Test of Dial Speed

This test checks that the dial speed is within proper limits, and that the attendant telephone circuit is satisfactory for dialing out over a cord circuit.

(D) Busy Test

This test checks that a busy test click is given to the attendant when the called station line is busy.

1.03 The position under test should not be occupied by an attendant during these tests. The tests should preferably be made during periods of light traffic.

1.04 Hold test receiver slightly away from the ear while testing.

2. APPARATUS

All Tests

2.01 Attendant telephone set connected into telephone set jacks.

Test (B)

2.02 Test line circuit SD-65693-01.

2.03 No. 716E or No. 528 receiver equipped with an R2CU cord 6 feet long and a No. 309 plug (2W29A cord).

2.04 No. 716E or No. 528 receiver equipped with one W2AB cord 6 feet long equipped with two No. 360A tools (2W21A cord) and two KS 6278 tools.

2.05 W2BB cord 5 feet long equipped with one 309 plug (2W25A cord). (For connecting test receiver battery to attendant telephone circuit.)

2.06 W1U cord 1 foot 8 inches long. (For making connection to ground.)

3. METHOD

<u>Step</u>	<u>Action</u>	<u>Verification</u>
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(A) Cord and Jack Cut-out Test

- | | | |
|---|---|--|
| 1 | Connect attendant telephone set to right hand pair of telephone set jacks | |
| 2 | Listen in receiver | Sidetone heard without excessive noise |
| 3 | Shake and slightly twist telephone set cord | No clicks or scratchy noises heard in receiver |

- | <u>Step</u> | <u>Action</u> | <u>Verification</u> |
|---|---|--|
| 4 | Move plug of telephone set in telephone jacks and shake plug gently while in jacks | No clicks or scratchy noises heard in receiver |
| 5 | Disconnect attendant telephone set from right hand pair of jacks and connect it to left hand pair | |
| 6 | Repeat 2, 3 and 4 | |
| 7 | Disconnect attendant telephone set | |
| 8 | Repeat 1 to 7 inclusive for all spare attendant telephone sets | |
| (B) Operation of Dialing Circuit | | |
| 1 | Connect a front cord to T jack of test line circuit | |
| 2 | Connected associated rear cord to S1 jack of test line circuit | Rear cord lamp lights |
| 3 | Connect test receiver to T1 jack of test line circuit | |
| 4 | Operate TALK AND DIAL key of cord used in steps 1 and 2 | |
| 5 | While listening in test receiver, move dial slowly off normal only until a click is heard | Click is heard in test receiver but is not excessively loud. Rear cord lamp goes out |
| 6 | Allow dial to return to normal | Rear cord lamp remains out |
| 7 | Listen in test receiver and restore TALK AND DIAL key | Click is heard. Rear cord lamp lights |
| 8 | Re-operate TALK AND DIAL key | |
| 9 | Connect testing cord into S jack of test line circuit | |
| 10 | Connect one clip of the second test receiver to one cord tip of the patching cord | |
| 11 | Connect other clip of second test receiver to ring of front plug of another cord | |
| 12 | Connect other cord tip of patching cord to ground at a key cam. | |
| 13 | Listen in second test receiver, and move dial off normal only until a click is heard | |
| 14 | Allow dial to return unrestrained to normal | Two clicks are heard in quick succession |
| 15 | Listen in attendant receiver and dial zero | No dial pulse clicks are heard |

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<u>Step</u>	<u>Action</u>	<u>Verification</u>
16	Restore TALK AND DIAL key, and disconnect all cords	

(C) Test of Dial Speed

- 1 Operate TALK AND DIAL key of a spare cord
- 2 Using front cord, set up connection to dial speed testing equipment
- 3 Check dial speed in regular manner

<u>Step</u>	<u>Action</u>	<u>Verification</u>
4	Restore TALK AND DIAL key and disconnect cord	

(D) Busy Test

- 1 While listening in attendant receiver, touch tip of a front cord to ground at a key cam
Click is heard
- 2 Disconnect attendant telephone set