

**BELL SYSTEM PRACTICES**  
**Private Branch Exchange**  
**Installation and Maintenance**

**SECTION B522.231**  
**Issue 1, 10-1-51**  
**AT&T Co Standard**

## **TESTS AND INSPECTIONS**

### **AT TIME OF INSTALLATION**

#### **NO. 507-A AND NO. 507-B P.B.X.'s**

#### **1. GENERAL**

1.01 This section covers the tests and inspections that are required when the No. 507-A and No. 507-B P.B.X.'s are installed.

1.02 Correct any defects found as a result of these tests and inspections or refer them to others for handling in accordance with local instructions.

1.03 When making tests which require the use of a hand test set, keep the receiver slightly away from the ear so that clicks which occur during testing will not act directly on the ear.

#### **2. APPARATUS**

2.01 Dial Hand Test Set—1011G equipped with a 2W37A Cord Assembly consisting of one W2DB Cord, one No. 471A Jack and two No. 2 Test Clips per A. T. and T. Co. Spec. No. 6928.

#### **3. TESTS AND INSPECTIONS**

##### **3.01 Inspection of Terminals**

<u>ITEM</u>	<u>VERIFY</u>
Terminal Box	Location and mounting
Connecting Blocks	Securely fastened
Fanning Strips	Securely fastened
	Lettered and numbered
Cable Conductors and Wires	Neatly dressed and terminated

3.02 **Inspection of Cables**

<u>ITEM</u>	<u>VERIFY</u>
Cables	Running Fastening

3.03 **Inspection of P.B.X.**

Location	Convenient—Accessible — Not subject to service hazards
Interior	Clean—free from wire clippings, etc. Wiring neatly arranged
Cable	Securely fastened—Looped
Cord	Stay hook fastened
Cable and Cord Conductors	Fanning holes used—Terminated
Relays	Tight
Relay Covers	Firmly in place
Keyshelf	Moves freely—Locks in raised position—Fastens to base
Keys	Do not bind
Key Tops	Type—Color—Firmly in place
Lamp and Lamp Caps	Type—Color—Firmly in place
Circuit Label	Pasted in cover
Cover	Appearance—Fastens to the base
Designation Strip and Holder	Properly made out—Firmly in place
Instruction Plate	In place in lower front center of the P.B.X. Slides freely

3.04 **Inspection of Attendant's Telephone**

Telephone Set	Type—Dial, when required— Appearance
Cord	Type—Fastened at stay hook
Cord Conductors	Terminated
Bell	Terminated
Gongs	Spacing
Varistor	Securely fastened — Terminated

<u>ITEM</u>	<u>VERIFY</u>
Station Number Card and Holder	Properly made out—Firmly in place
Designation Strip and Holder (for key telephone set only)	As above

### 3.05 Inspection of Hand Generator

105A Apparatus Box Location	Convenient—Accessible — Not subject to service hazards
Cover	Appearance—Fastens to base
Base	Mounting
Hand Generator	Securely fastened
D-C Buzzer	Securely fastened
Cable Conductors	Terminated
Hand Generator Handle	Firmly in place
Plug Button (for sealing other handle opening)	Firmly in place

### Circuit Operation Tests

3.06 Perform the circuit operation tests covered in Section B222.211.

### Relay Tests

3.07 The relays should not require the application of a current flow test at the time of installation, except when a P.B.X. is moved from one subscriber's premises to another without passing through the shop or storeroom for reconditioning. Test and readjust individual relays in accordance with the requirements for the particular type of relay involved.

### 3.08 Test of Dial Central Office P.B.X. Hunting Feature

(a) Operate the first trunk key and the associated attendant key. Remove the attendant hand set from the mounting and note the presence of dial tone in the receiver. Dial the telephone number of this trunk. Check that ringing induction is heard, the trunk lamp of the next higher numbered idle trunk lights and the audible signal is heard.

Note: In some types of central offices, the trunks may not be selected in consecutive order. In such cases obtain the assistance of the test deskman in verifying

that the trunks are connected in the correct order. If they are, and all trunks are used in the course of the test, disregard the order in which they are selected by the central office equipment.

(b) Restore the key of the trunk on which the call was made, wait approximately five seconds (to prevent charging the subscriber for a call) and then operate the key of the trunk on which the call has appeared. When dial tone is heard, dial the telephone number of this trunk. When ringing induction is heard, check that the trunk lamp of the next higher numbered idle trunk lights and the audible signal is heard.

(c) Proceed as outlined in (b). After the telephone number of the highest numbered trunk in the P.B.X. group is dialed on its own trunk, check that a busy signal is heard.

(d) Restore the equipment to normal.

#### **4. REPORTS**

4.01 Enter the required record of these tests on the proper form.