

## **ALARMS - OPERATION TESTS**

### **750A PBX**

#### **1. GENERAL**

- 1.01 This section describes methods of testing alarms in a No. 750-A PBX
- 1.02 This section is reissued to specify a W1AF cord (190 ohms resistance) for testing of fuse alarms instead of test receivers and to revise test (A) to cover additional circuit arrangements.
- 1.03 The tests cover the operation and release of the various alarms provided in this P.B.X. as listed below.
  - (A) Fuse Alarm and Central Office Alarm Circuit
  - (B) Power Alarm
  - (C) Ampere Hour Meter Alarm
- 1.04 When the PBX alarm is extended to the central office, call and notify the proper person at the central office before and after tests are made.
- 1.05 The procedure outlined in each test is designed to bring in a visual and audible alarm indication with the audible alarm control key normal.

#### **2. APPARATUS**

##### **Test (A)**

- 2.01 No. 1011B Dial Hand Test Set (or equivalent).

##### **Tests (A) and (B)**

- 2.02 Testing Cord—W1AF Cord, 8 feet 6 inches long, equipped with one KS-6278 Clip and one No. 411A Tool (for use in connecting battery to alarm bars).

##### **Test (A)**

- 2.03 Testing Cord—W1U (or No. 760) Cord, 1 foot 8 inches long. (For use in connecting ground to terminal.)

#### **3. METHOD**

##### **(A) Fuse Alarm and Central Office Alarm Circuit**

- 3.01 Before starting this test, observe that no alarm lamps are lighted.
- 3.02 When the PBX alarm is extended to the central office, establish a connection to an idle central office trunk at the equipment cabinet as follows: Connect the dial hand test set to the T and R terminals of an idle key station which is not restricted for outgoing trunk service. These terminals are located on the incoming terminal strip on the apparatus frame in back of the apparatus frame gate. Next, connect ground to the associated YY, W or BB terminal.
- 3.03 After these connections have been established, call the proper person at the central office and arrange to have the Class A (major) alarm observed at the central office.
- 3.04 Connect battery to the alarm bar or stud on the apparatus frame fuse panel.

Note: Do not use link fuses B1, B2 or B3 at this time. Link alarm fuses A, B, C or D should not be used for this test as these fuses are not normally energized.
- 3.05 Check that the F (fuse alarm) lamp on the apparatus frame gate lights and the alarm bell rings.
- 3.06 Momentarily operate the A alarm key and check that the F (fuse alarm) lamp remains lighted and the alarm bell is silenced.
- 3.07 When more than one A alarm key is provided, use a different A alarm key for alternate tests.

- 3.08 When the PBX alarm is extended to the central office, have the central office assistant check that the red Class A (major) lamp is lighted at the central office and that the alarm bell rings.

- 3.09 Have the central office assistant operate the associated PBX-A or DA key and check that the red Class A (major) lamp remains lighted and the alarm bell is silenced.

- 3.10 Remove the battery from the alarm bar or stud and check that the F (fuse alarm) lamp on the apparatus frame gate is extinguished.

- 3.11 Have the central office assistant check that the red Class A (major) lamp is extinguished, the white supervisory lamp is lighted and the alarm bell rings.

- 3.12 Have the central office assistant reoperate the PBX-A or DA key and check that the white supervisory lamp is extinguished and the alarm bell is silenced.

Note: If the PBX is connected to a central office using alarm circuit SD-21482-01, the PBX-A or DA key will have to be restored to extinguish the supervisory lamp and silence the bell.

- 3.13 Successively connect battery to the alarm bar or stud of each link B1, B2 and B3 fuse in service on the apparatus frame fuse panel and check that the F (fuse alarm) lamp lights and the alarm bell rings as battery is connected to the alarm bar at each fuse.

- 3.14 Successively remove the battery from the alarm bar of each link fuse B1, B2 and B3 and check that the F (fuse alarm) lamp is extinguished and the alarm bell is silenced.

- 3.15 When a connection has been established to the central office, disconnect from the central office by removing the dial hand test set and testing cord from the terminals used for this connection.

##### **(B) Power Alarm**

- 3.16 Connect battery to the alarm stud of the CHG (charge) fuse protector mounting.

- 3.17 Check that the F (fuse alarm) lamp on the apparatus frame gate lights and the alarm bell rings.

Note: On some PBX's, this will be a lamp designated P.

- 3.18 Remove the battery from the alarm stud of the CHG (charge) fuse and check that the F (fuse) or P (power) alarm lamp is extinguished and the alarm bell is silenced.

##### **(C) Ampere Hour Meter Alarm**

- 3.19 Note the position of the pointer on the ampere hour meter dial, then remove the cover. Carefully advance the pointer by hand in a clockwise direction observing that when it reaches 64 to 66 points on the dial, the F (fuse alarm) lamp on the apparatus frame gate lights and the alarm bell rings.

- 3.20 Move the pointer in a counterclockwise direction and observe that the F (fuse alarm) lamp is extinguished and the alarm bell is silenced when the pointer is returned to any point below 64 on the dial.

- 3.21 Restore the pointer to the point on the dial where it was registering before this test was made and replace the cover on the meter.

#### **4. REPORTS**

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