

EXTENSION LINES
CONVERTIBLE TO DIAL LINE CIRCUIT
RELAY, JACK AND LAMP CIRCUIT TESTS
605A PBX

1. GENERAL

- 1.01 This section covers tests of line lamp, line and cutoff relays, sleeve circuit, jacks for cut-outs and lamp sockets for crosses.
- 1.02 This section is reissued to cover several minor changes and replaces Provisional Standard Issue 1.

2. APPARATUS

- 2.01 Test Receiver (No. 528 or equivalent) equipped with Cords and Clips.
- 2.02 Test Plug (minimum size).
- 2.03 No. 2-Y Lamp in a No. 38-B Lamp Socket.

3. METHOD

3.01 **Line Relay Test:** Connect the test lamp across the line terminals at the distributing frame. The line lamp should light with proper brilliancy, indicating that the line relay operates. When a more critical test of the line relay is required, a current flow check should be made.

3.02 **Sleeve Circuit and Cutoff Relay Test:** Connect an idle back cord to one of the jacks of the circuit under test. The line lamp should be extinguished and the front supervisory lamp should light. This indicates that the make contact of the jack is closed and that the cutoff relay operates properly, releasing the line relay and connecting ground to the sleeve circuit.

Disconnect the cord from the jack and note that the line lamp lights. Repeat the test at each multiple jack appearance.

3.03 To test that the sleeve ground is removed when the cutoff relay releases, connect one terminal of the test receiver to the sleeve of an idle back cord and touch the other terminal to the sleeve of a jack of the line under test. No click should be heard. Disconnect the test lamp from the line terminals.

3.04 **Test of the Extension Line Jacks for Cut-outs:** Connect the test receiver across the tip and ring terminals of the test plug. Insert an idle back plug into one jack of the circuit under test and insert the test plug into an associated multiple jack. Manipulate the test plug to determine whether the jack cuts-out. This should be done by grasping the plug at the cord end and while applying a sideward pressure (that is, away from the centre of rotation), move the plug through a complete circle. Disconnect testing apparatus from the circuit after all multiple jacks have been tested.

3.05 **Test of the Lamp Socket for Crosses:** Connect one clip of the test receiver to the tip of an idle back plug and touch the other clip to the metal frame of the lamp cap. No click should be heard. This should be repeated at each multiple appearance. Disconnect the test receiver.

4. REPORTS

- 4.01 The required record of this routine should be entered on the proper form.