

MISCELLANEOUS CIRCUITS
POSITION GROUPING, AUXILIARY SIGNAL, NIGHT ALARM,
PEG COUNT AND SUPERVISOR CIRCUIT
TESTS AND INSPECTIONS
606A PBX

1. GENERAL

1.01 This section describes a method of testing the miscellaneous circuits of the 606A PBX. The tests are as follows:

- (A) **Position Grouping Key Circuit**
- (B) **Auxiliary Signal and Night Alarm Circuit**
- (C) **Peg Count Circuit**
- (D) **Supervisor's Circuit**

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

1.02 Where the supervisor's circuit is connected to outgoing trunk multiple which is multiplied through several sections, the tests should be made from a different section on each routine so that eventually the supervisor's circuit will have been tested from each multiple jack.

1.03 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

Test (A)

2.01 One Attendant's Telephone Set.

Test (D)

2.02 Two Attendant's Telephone Sets.

3. PREPARATION

3.01 For test (D) the use of a spare multiple or answering jack with ground on the sleeve through 60 ohms (No. 18BR resistance) and having its tip and ring terminals short-circuited will be required.

4. METHOD

(A) Position Grouping Key Circuit

4.01 If the position under test is arranged to group to an adjacent position, operate the grouping key and insert the plug of an attendant's telephone set into the telephone jacks of the adjacent position.

4.02 Insert the front plug of an idle cord circuit of the position under test into a central office trunk jack. Note that dial tone or the central office operator is heard satisfactorily.

4.03 Touch the tip of a front plug of an idle cord circuit to the sleeve of a plug of another idle cord of the position under test. Note that a distinct click is heard in the attendant's receiver.

4.04 Tap lightly on the key top of the grouping key to test for cutouts or noise in the grouping key. Restore the grouping key and cord circuit to normal. Remove the attendant's telephone set from the telephone jacks.

(B) Auxiliary Signal and Night Alarm Circuit

4.05 Insert the plug of an idle front cord circuit plug into an interposition trunk jack associated with the auxiliary

signal and night alarm circuit under test. The associated trunk lamp should light. Operate the NA (night alarm) key to its "on" position and note that the audible signal is heard. Remove the plug from the trunk jack.

4.06 Obtain a ring on a central office trunk associated with the auxiliary signal and night alarm circuit under test. The associated trunk lamp should light and the audible signal should be heard.

4.07 Insert the plug of an idle front cord into the trunk jack. Note that the trunk lamp is extinguished and the audible signal is retired. Remove the plug from the trunk jack and restore the NA (night alarm) key to its "off" position.

(C) Peg Count Circuit

4.08 Depress the peg count key associated with the position under test five times. Observe that the register in the peg count cabinet has been advanced five times.

4.09 Perform the operation described in 4.08 on each position to be tested. The number of test registrations for each position register should be five.

(D) Supervisor's Circuit

4.10 Insert the plug of an attendant's telephone set into the telephone jacks of an idle regular position.

4.11 Insert the back plug of an idle cord circuit into the short-circuited jack referred to in 3.01.

Insert the associated front cord plug with the listening key operated into the section jack of the supervisor's circuit under test. The S (white) lamp should light and the associated bell should ring. Note that an audible ringing signal is heard on the trunk and that the front cord supervisory lamp is lighted. Remove the cord from the supervisor's section jack.

4.12 Insert the front cord plug into the division jack of the supervisor's circuit under test. The D (red) lamp should light and the associated bell should ring. Note that an audible ringing signal is heard on the trunk and that the front cord supervisory lamp is lighted.

4.13 When the plug of an attendant's telephone set is inserted into the supervisor's telephone jacks, observe that the supervisor's S (white) or D (red) lamp is extinguished and that the bell stops ringing. The front cord supervisory lamp at the regular position should be extinguished and the audible ringing should cease.

Note: The telephone set should be inserted into the supervisor's telephone jacks during the ringing period to verify that the tripping feature of the circuit functions properly.

4.14 Remove the cord circuit from the supervisor's jack, disconnect the telephone sets and check that the supervisor's circuit restores to normal.

5. REPORTS

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