

MISCELLANEOUS CIRCUITS
GENERATOR, BATTERY, AUXILIARY SIGNAL, NIGHT ALARM AND FUSE ALARM
TEST AND INSPECTIONS
700C PBX
(MANUAL SWITCHBOARD)

1. GENERAL:

1.1 This section covers tests of the generator feeder, battery feeder, auxiliary signal, night alarm, fuse alarm and motor start circuits.

1.2 When testing the generator feeder, the test receiver should be held away from the ear.

2. APPARATUS:

2.1 Test Receiver (No. 528 or equivalent) equipped with cords and clips.

3. METHOD:

Generator Feeder:

3.1 **Test for presence of ringing current** by ringing the bell of a nearby extension.

3.2 **To test generator key and hand generator**, operate generator key to the H position and again ring the bell of a nearby extension with the hand generator. **Be sure to restore the generator key to the P position after test.**

3.3 To test for reversed generator feeder, connect the test receiver to the tips of a pair of cords and ring on the front cord. If the ringing current is heard, the feeder is reversed

Battery Feeder:

3.4 **Test for the presence of battery** by observing that the supervisory lamps light when a back plug is inserted into an idle extension line jack.

Auxiliary Signal, Night Alarm and Fuse Alarm Circuits:

3.5 If a non-multiple board, proceed as follows: Insert an idle front plug into an attendant trunk jack associated with the auxiliary signal circuit under test far enough to bring the tip of the plug in contact with the ring spring of the jack. The associated trunk lamp should light. Operate the BUZZ (buzzer) switch on the keyboard to its ON position. The buzzer should operate. Disconnect plug from attendant trunk jack and make the same test on an idle manual extension line. Disconnect plug from manual extension line jack.

3.6 Obtain a ring on a central office trunk. The associated lamp should light and buzzer should operate. Insert an idle front plug into the associated trunk jack and note that the lamp goes out and the buzzer is silenced. Disconnect plug from trunk jack.

3.7 Insert a back plug into an idle attendant trunk jack. The associated cord lamps should light and buzzer should operate. Disconnect the plug from the jack.

3.8 If testing a multiple board, proceed as follows: Insert an idle front plug into an attendant trunk jack associated with the auxiliary signal circuit under test far enough to bring the tip of the plug in contact with the ring spring of the jack. The associated trunk and pilot lamps should light. Operate the N-AL (night alarm) switch in the cable turning section to its ON position and the buzzer should operate. Disconnect the cord from the attendant trunk jack and make the same test on an idle manual extension line circuit. Disconnect cord from manual extension line jack.

3.9 Obtain a ring on an idle central office trunk. The associated trunk and pilot lamps should light and buzzer should operate. Insert an idle front cord into the trunk jack. Note that the lamps go out and the buzzer is silenced. Disconnect cord from jack.

3.10 Connect one clip of the test receiver to battery and touch the other clip to the alarm strip associated with the ground busbar at each position. The associated alarm lamp located at the top of the jack panels in a non-multiple board or in the cable turning section of a multiple board should light.

3.11 Connect one clip of the test receiver to ground and touch the other clip to the alarm strip associated with the battery busbar in each position. The associated alarm lamp should light.

3.12 With either of the above lamps lighted, operate the C-AL (common alarm) switch, located on the keyshelf of the non-multiple or in the cable turning section of the multiple board, to its ON position. The fuse alarm bell should ring. Restore switch to the OFF position and disconnect test receiver.

3.13 **Motor Start Circuit Test:** On boards equipped with this circuit, make the following test: **This test should be made at a time when the board is not in use.** Insert an idle back cord into the multiple jack associated with a nearby extension and note that both associated cord lamps are lighted. Push the OFF button of the BATTERY CONTROL switch in. Cord lamps should go out. Observe that the MS relay is normal. Push the ON button of the BATTERY CONTROL switch in. Cord lamps should light. Disconnect cord from the extension line jack. Observe that the MS relay has operated.

4. REPORTS:

4.1 The required record of these tests shall be entered on the proper form.