

2nd floor

OUT-OF-ORDER AND MAKE BUSY CIRCUITS
TELETYPEWRITER SWITCHBOARDS 3A AND 3C

1. GENERAL

1.01 This section describes a method of making operation tests on out-of-order and make-busy circuits associated with Nos. 3A and 3C TWX switchboards. The tests are as follows:

- (A) Out-of-order Circuit Test
- (B) Make Busy Circuit Test

1.02 This section is reissued to include the 3C TWX switchboard, and to make general revisions. Because of the extent of the revisions, the usual arrows to indicate changes have been omitted.

1.03 When the out-of-order circuit is connected to a subscriber line, toll subscriber line, intertoll trunk or line concentrating trunk jack, it provides a closed termination for the transmission path of the line or trunk. When this connection is established and a busy test is made at any multiple appearance of the line or trunk jack a distinctive audible and visual signal is registered to indicate that the line or trunk is connected to the out-of-order circuit.

1.04 The make-busy circuit functions the same as the out-of-order circuit except that when a busy test is made at any multiple jack appearance the normal busy signal will be registered.

1.05 The cords or jacks of the out-of-order or of the make busy circuits are located at one end of the switchboard. The position is identified herein as the END POS. Any idle position, but preferably the position adjacent to the END POS, should be used for these tests. This position is identified herein as POS A.

2. APPARATUS

Tests (A) and (B)

2.01 One 3P7A cord (required for the out-of-order circuit only when the circuit is jack ended).

Note: The 3P7A cord is normally provided as part of the switchboard equipment.

3. METHOD

(A) Out-of-order Circuit Test

3.01 At the END POS: Insert the plug of the out-of-order circuit into the jack of an idle subscriber line.

Note: If the out-of-order circuit is jack-ended, use a 3P7A cord and insert the one end of the cord into the out-of-order circuit jack and the other end into the idle subscriber line jack.

3.02 At POS A: Operate the typing key associated with an idle cord circuit to the HOME position. Touch the tip of the call plug to the sleeve of a multiple-jack appearance of the idle subscriber line used in 3.01. The position busy lamp should light and the position buzzer should operate as long as the plug tip is in contact with the jack sleeve.

3.03 At POS A: Insert the plug of the ANS cord into the multiple-jack appearance of the idle subscriber line used in 3.01. The answering cord lamp should not light. The position teletypewriter should run closed but should not respond to typing from its keyboard.

3.04 At the END POS: Remove the plug of the out-of-order cord from the idle subscriber line jack.

3.05 At POS A: The answering cord lamp should light. Remove the plug from the multiple appearance of the subscriber line jack. The answering cord lamp should go out. Restore all position equipment to normal.

(B) Make Busy Circuit Test

3.06 At the END POS: Insert one end of a 3P7A cord into the make busy circuit jack. Insert the other end into the jack of an idle subscriber line.

3.07 At POS A: Operate the typing key associated with an idle cord circuit to the HOME position. Touch the tip of the CALL plug to the Sleeve of a multiple-jack appearance of the idle subscriber line used in 3.06. The position busy lamp should light as long as the plug tip is in contact with the jack sleeve.

3.08 At POS A: Insert the plug of the ANS cord into the multiple-jack appearance of the idle subscriber line used in 3.06. The answering cord lamp should light. The teletypewriter should run closed but should not respond to typing from its own keyboard. Remove the plug from the idle subscriber line jack. The answering cord lamp should go out. Restore all cord and position equipment to normal.

3.09 At the END POS: Remove the 3P7A cord from the idle subscriber line circuit and from the make-busy circuit.

4. REPORTS

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

Bell Telephone Laboratories, Inc.