

GROUP BUSY TONE CIRCUIT

NO. 1 OFFICE

1. GENERAL

1.01 This section covers methods of testing the group busy tone circuits associated with outgoing trunk groups in No. 1 offices. The tests are as follows:

(A) Group Busy Tone Controlled by Sleeve Condition.

(B) Group Busy Tone Controlled by Tip and Ring Condition.

1.02 The section has been reissued to add test (B) for trunk groups on which the busy tone is controlled by the tip and ring condition.

1.03 Where a switchboard has some trunk groups on which the group busy tone is controlled by the sleeve condition and others on which the group busy tone is controlled by the tip and ring condition, a list should be provided showing the class of each trunk group so that the proper test may be applied. Any local three-wire trunks should be shown on the list. Trunks of this type should be tested in accordance with test (B) so that the "B" operator may be informed that the test is being made.

1.04 These tests should preferably be made during periods of light traffic and at times when it is convenient for the Traffic Department to give the necessary assistance.

1.05 Tests should usually be made from the end position of a line-up in order to include all multiple wiring and in case more than one line-up is involved the tests should be scheduled so that they are fairly equally distributed between the line-ups.

1.06 Test (B) is set up on the basis that straightforward trunks are involved. Call circuit trunks may be tested in a similar manner except that no order tone will be received and that a call circuit should be used for communication with the operator in the terminating office.

1.07 Care should be taken not to connect to a busy trunk. It is assumed that busy tests will be made in all cases before connections are established to the trunks to be tested.

2. APPARATUS

2.01 Operator's Telephone Set.

3. PREPARATION

3.01 Before the test is started, a note should be made of any trunks out of service which are connected to the make-busy circuit, to prevent loss of time which might result when busy trunks are encountered during the test.

3.02 At the switchboard position from which the tests are to be made, connect the operator's telephone set.

4. METHOD

(A) Group Busy Tone Controlled by Sleeve Condition

4.01 Insert an "A" cord plug just far enough in each jack of the group of trunks associated with the master busy jack to make the sleeve connection but not the tip and ring connections. Care should be taken not to engage the tip and ring springs, since this would light the trunk lamp at the "B" board.

4.02 Operate the talking key of another cord and hold the tip of the front cord in contact with the sleeve of the plug in the master jack. The group busy tone should be heard.

4.03 While listening to the tone as described in 4.02, remove and quickly reinsert each of the other plugs in turn and note that while the plug is out of the jack the busy tone is not heard.

4.04 Operate the talking key of the cord in the master jack, then withdraw the plug from the master jack and test the sleeve of the jack. No tone should be heard.

4.05 Disconnect all the cords from the trunk jacks.

(B) Group Busy Tone Controlled by Tip and Ring Condition

4.06 Connect an "A" cord to the trunk to be tested, with the talking key operated, and listen for order tone.

4.07 Upon hearing order tone say to the "B" operator, "Group busy test. Please operate the release key." (If, as in the case of key listening straightforward, the "B" position is not equipped with a release key, say, "Group busy test. Please do not connect this trunk to any line number.") Restore the talking key.

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4.08 Repeat these operations until a cord has been connected to each trunk associated with the master busy jack.

4.09 Operate the talking key of another cord and hold the tip of the front cord plug in contact with the sleeve of the plug in the master jack. The group busy tone should be heard.

4.10 While listening to the tone as described in 4.09 remove and quickly reinsert each of the other plugs in turn and note that while the plug is out of the jack the busy tone is not heard.

4.11 Operate the talking key of the cord in the master jack, then withdraw the plug from the master jack and test the sleeve of the jack. No tone should be heard.

4.12 Disconnect all the cords from the trunk jacks.

5. REPORTS

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