

**GROUP BUSY CIRCUIT FOR
TRANSFER TRUNKS ST-521137
NO. 5 CROSSBAR ARRANGED
FOR PBX DIAL TRANSFER**

1. GENERAL

1.01 This section describes a method of testing ST-521137 group busy circuits for transfer trunks in offices arranged for PBX Dial Transfer.

1.02 The tests covered are:

- A. Group Busy (GB-) relay operation.
This test checks continuity of GB and GB1 leads which chain through the RB relay contacts of all transfer trunks in a group.
- B. Traffic Register Operation. This test checks that each GB- relay can start the office interrupter and cause stepping of associated traffic register.

2. APPARATUS FOR TESTS

Test A

2.01 1 Test Receiver

10 W1U Cords

Test B

2.02 1 Toothpick

3. METHOD OF TESTING

Test A

3.01 At the first transfer trunk in the group under test, check for ground on punching 53 of B terminal strip and contact 12 of RB relay.

3.02 Check for no ground on punching 54 of B T.S. Short-circuit contact 12 make of RB relay. Ground should be present on punching 54 of B T.S.

3.03 With W1U Cord, connect punchings 53 and 54 of B T.S. Proceed to the next transfer trunk in the group.

3.04 Repeat 3.01 to 3.03 on each transfer trunk in the group until all have been tested.

3.05 At the group busy circuit, the GB-relay for this group should now be operated.

3.06 Return to the first trunk in the group. Check for ground at contact 12 middle of S1 relay.

3.07 Insulate contact 2 break of TO relay. Ground should be removed from 12 - S1 relay.

3.08 Remove the cord connection between punchings 53 and 54 of B T.S. Ground should be present on 12 - S1 relay.

3.09 Replace the cord connection. Remove the insulator from contact 2 - TO relay.

3.10 Repeat Par. 3.06 to 3.09 on the next transfer trunk in the group until all trunks have been tested. Remove all cords.

3.11 Repeat Par. 3.01 to 3.10 on next transfer trunk group until all groups have been tested.

4. TEST B

4.01 At the group busy circuit, block operated GBO relay. INT relay should operate and release at 60 IPM.

4.02 At the traffic register rack, the register associated with GBO should step at 60 IPM.

4.03 Remove the block from GBO relay and block operated next higher GB-relay.

4.04 Repeat 4.01 to 4.03 until all GB-relays and associated traffic register have been tested.