

DIALING DISTRICT JUNCTOR TEST

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1. GENERAL INFORMATION

1.1 Description of Test: This section outlines the tests to be made on dialing district junctors, SD-25481-01, associated with the local D.S. A Board. The operating tests are made by originating test calls at the A Position.

1.2 Circuit Test: A circuit test consists in performing all of the individual routine tests per Paragraph 9 once to one district junctor circuit.

1.3 Conditions Necessary for Test: The sender link tests should be completed. Connections to the switchboard and traffic register rack are required before making the supplementary tests. Cross-connections to the local incoming trunks are required for the routine tests since calls are dialed to directory numbers.

2. TEST EQUIPMENT

2.1 Test Sets and Accessories

Amt	Code	Description
1	ITE-4034	Ohmmeter
% 10	298A	Make Busy Plug
% As Req'd	508A	Relay Blocking Tool
% 1	ITE-9650	Operator Telephone Set

% - Furnished with the test accessory set ITE-4023.

3. FUSING

3.1 This test is made at the time of the fusing test of the subscriber district junctors.

4. CHECK OF 10 OHM SLEEVE RESISTANCE

4.1 Connect an ohmmeter at 1T of LR relay and 3T of the F relay. The resistance should be 0 ohms.

4.2 Block T1 relay operated. The resistance should be approximately 2 ohms.

4.3 Insulate 1T and 2T of T1 relay. The resistance should be approximately 10 ohms.

5. TRAFFIC REGISTER TEST

5.1 Block operated the SL relay in each district junctor in the group associated with a GB register at the traffic register rack. Observe that the register scores.

5.2 Release and reoperate each SL relay in turn and observe that the register scores each time.

6. TRUNK GROUP BUSY TESTS

6.1 Group Busy Indicating (Z Wiring)

6.11 Block operated the SL relay of each district junctor of the trunk group. The "Trunk Group Busy Lamp" lights.

NOTE: The ground bar test of Paragraph 3 Section 122, Paragraph 3.4 Section 122.1 or Paragraph 4.4 Section 622 whichever is applicable may be made at this time.

6.12 Release and reoperate each SL relay in turn. The lamp is extinguished as each SL relay is released and again lights when the relay is operated. Release all SL relays.

6.13 Perform the tests per Paragraphs 6.11 and 6.12, operating the LC relays instead of the SL relays.

6.2 Idle Trunk Indicating (Y Wiring)

6.21 Observe that the idle trunk indicating lamp is lighted at the first trunk of the group. Block operated the SL relay of the first trunk. The first trunk lamp is extinguished and the second lamp lights.

6.22 Block operated in turn the SL relay of each district junctor in the trunk group. Observe that as each relay is operated the associated trunk lamp is extinguished and the next lights. Release the SL relays.

6.23 Perform the tests outlined in Paragraphs 6.21 and 6.22 operating the LC relays instead of the SL relays.

7. MAKE BUSY FEATURE

7.1 Using a cord at the A Board make a busy test at the sleeve of the jack associated with the first trunk. Note the absence of the busy signal.

NOTE: The test for idle or busy trunk is made by operating the listening key of a cord, touching the tip to the sleeve of the jack. If the trunk is busy a distinctive click will be heard in a telephone set plugged in the position TEL jacks.

7.2 Manually operate the ST relay of the first junctor. Again test at the sleeve of the jack and note that the trunk tests busy. Release the ST relay and operate the LC relay. Observe that the trunk again tests "busy". Release the LC relay.

8. TRL LEAD CHECK

8.1 Connect ground to the TRL lead (#1 punching on the T.S. for MCA relays) of the district link frame. Block operated the LC relay associated with the junctors under test. Momentarily operate each F relay in turn and check that ground is present at #24 punching (individual pchgs. on VERT T.S. on Unit) while the relay is operated.

9. ROUTINE TESTS

NOTE: When performing the routine tests each test may be applied to all district junctors before proceeding to the next test. This procedure should be followed especially for the "Reorder" and "Premature Release" tests.

9.1 Idle Line Test

9.11 At the distributing frame connect the tip and ring of an assigned directory number to the tip and ring of a spare multiple jack at the A Board. Patch the spare jack to the RING TEST jack of the cord testing circuit.

→ Arrowed lines indicate new or changed information.

9.12 Plug a calling cord into the trunk jack and operate the listening key. When dial tone is received dial the directory number of the line connected to the multiple jack (See Paragraph 9.11).

9.13 When the test circuit bell rings answer the call by moving the cord from the RING TEST to the INT jack. The cord supervisory lamp is extinguished.

9.14 Disconnect by pulling down the calling cord and moving the cord from the INT to the RING TEST jack.

9.2 Busy Line Test

9.21 Originate a call and dial the office busy line number.

9.22 The cord supervisory lamp will flash at the busy line rate (60 I.P.M.)

9.3 Reorder Test

9.31 Make busy all district link secondary switches by inserting make busy plugs into the MBO to MB9 jacks.

9.32 Originate a call dialing the idle line test number. The office code only is required. The cord supervisory lamp will flash at the reorder rate (120 I.P.M.)

9.4 Premature Release

9.41 Block non-operated the sender link GP relays associated with dialing district junctors.

9.42 Plug a cord into the trunk jack. After about two seconds disconnect and check that the trunk restores to normal. Make the regular busy test with the cord at the sleeve of the trunk jack. (See NOTE under Paragraph 7.1.)

9.43 When all trunks have been tested, remove the blocks from the GP relays.

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Reason for Reissue:
To add note in Paragraph 6.11.

Replaces Section 125 dated 12-18-47.