

"A" SWITCHBOARD DISTRICT JUNCTOR CIRCUIT

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1. GENERAL INFORMATION

1.1 Description of Tests: This section outlines all tests to be made on the A switchboard district junctor circuits SD-25021-01. The operating tests are made by originating a test from the switchboard and terminating at a line at the line link frame.

2. TESTING EQUIPMENT

2.1 Test Accessories

<u>Amt</u>	<u>Description</u>	<u>With ITE</u>
As Req.	Make Busy Plugs	4023
1	ITE-4137 AC Buzzer	

2.2 Cords

<u>Amt</u>	<u>ITE</u>	<u>Lgth</u>	<u>Cdrs</u>	<u>One End</u>	<u>Other End</u>	<u>With ITE</u>
1	9650	6'4"	4	137 Plug Oper.	Tel. Set	4023
1	4042	12'	2	Handset	S.O. Shoe	4023

3. FUSING

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

4. TRUNK LAMPS

4.1 Idle Trunk Indicating

4.11 Check that the a-c power supply is connected to the idle trunk indicating relay circuit. Check that the lamp associated with the first trunk is lighted.

4.12 Block operated in sequence, beginning with the first, the LC relay associated with each trunk in the group, and observe that as each is operated the L relay associated with the trunk operates. Release all LC relays.

4.13 At the "A" board check that the lamp associated with the next trunk lights when preceding trunks are made busy by partially inserting cords into the trunk jacks.

4.14 Repeat the test per Paragraph 4.13 from each appearance of the trunk group.

4.2 Group Busy Indication

4.21 Block operated all LC relays and observe that the group busy lamp lights. Release and reoperate each trunk LC relay and observe that the group busy lamp is extinguished as the relay is released.

4.22 Check for resistance battery at 1T of each LC relay. Release all LC relays.

4.23 Repeat test of Paragraph 4.21 using the SL relays, first making the sender link and control circuits busy.

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.

5. PATHS BUSY REGISTER

5.1 Observe the reading of the "paths busy" register associated with the group of circuits under test. Block operated the SL relay of each circuit in the group. The register scores once.

5.2 Release and reoperate each relay in turn. The register scores as each relay is reoperated.

6. CHECK OF TRL LEAD

6.1 Connect one lead of buzzer set to the TRL lead (#1 punching on T.S. for MCA relays) on the district link frame. Operate the LC relay associated with a group of 10 trunks. Operate in sequence each F relay in the group and check continuity with the other lead of the buzzer set at 2B of F relay.

7. ROUTINE TEST

7.1 Preparation for Test

7.11 One tester is stationed at the line link frame with a handset connected to the vertical of an assigned line. Leave the C button normal.

7.2 Call to Subscriber

7.21 Plug the calling end of a special service cord into the jack of the first circuit and operate the KP key associated with the key set circuit. When the sender lamp lights key the office code and number of the subscriber line used as a test line.

7.22 When the line hold magnet operates note ringing in the receiver of the handset. Trip the ringing by depressing the C button. Make a talking test. Disconnect by releasing the C button.

7.3 Operator's Error

7.31 Originate a call. Key one digit and operate the ST key. After 20

to 40 seconds the sender will be disconnected and the cord supervisory lamp will flash at 120 I.P.M.

7.4 Premature Release

7.41 Originate a call and remove the cord as soon as the ST key has been operated. Check that the circuits restore by making a busy test at the trunk jacks.

→ Arrowed lines indicate new or changed information.

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Reason for Reissue:
To add note in Paragraph 4.2.

Replaces Section 124 of 12-18-47.