

ALARM CIRCUIT

SD-95865-01

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1. GENERAL

1.1 This circuit provides a means for periodically checking "cut through" pulses between an announcement distributing circuit and incoming announcement trunks. A check is also made for the presence of an announcement on the announcement bus.

2. RECORDS AND REQUIREMENTS

2.1 Records: Form SD-4-1313 is required for recording results of this test.

2.2 Requirements: As indicated in Paragraph 3. Test Equipment.

3. TEST EQUIPMENT

3.1 Test Set

<u>Amt.</u>	<u>ITE-</u>	<u>Description</u>
1	4442	Volt-Ohmmeter
1	4414	Vacuum Tube Voltmeter
1	R-3314	Stop Watch

3.2 Cord: As provided with test sets.

4. FUSING

4.1 Using a test receiver or volt-ohmmeter, check that each fuse stud is free of battery or direct ground.

4.2 Install fuses one at a time and as each fuse is installed, check that remaining unfused studs are free of battery.

5. OPERATION TEST

5.1 Relays AL, MJ, MN and P and the AUD RLS Key are normally operating.

5.2 Ground ST lead Terminal strip 16*.

5.21 Give a ground pulse to CT lead T.S. 36*. CT relay will operate.

5.22 When pulse is removed on CT lead, CT1 relay will operate and R relay then operates.

5.23 Operation of ST relay closes ground to the ST lead terminal 35 T.S.* to start one minute interruption overhead A, B or PU 5 Terminal* 15, 25 and 25 respectively.

5.24 Check W-Z relay combination counts and recycles after two pulses.

5.3 Operate VA2 momentarily (simulate CT pulses fails to arrive).

5.31 The W-Z relays continue to time.

5.32 Relay AL release (AL lamp lights and office alarm activates over lead 2).

5.33 Relay MN releases (MN lamp lights, and minor alarm activates over lead 1).

5.34 Check absence of ground AL lead Terminal 26* T.S. to prevent charging the subscribers.

5.4 Again operate VA2 momentarily (causes of failure. CT pulses to arrive again).

5.41 AL relay released (AL lamp light).

5.42 MJ relay released (MJ lamp light).

5.43 Major alarm activates over lead 2.

5.5 Voice Failure

5.51 When an announcement is sent to the announcement bus:

5.511 Check the operation of VA relay.

5.512 If VA is not operating (voice fail) after fixed period of time, tube "A" will fire which will cause VA1 and VA2 relays to operate and major alarm to activate.

5.513 If voice fails on either of dual channels. the minor alarm activates.

5.6 Check "OS" lamp lights when "OOS" lead Terminal 37* is grounded which indicates "out of service." "OS" lamp lights.

5.7 Timing of Voice Alarm After Announcement Failure

5.71 To set the alarm time to one minute.

5.711 Release AUD RLS L Key.

5.712 Block the VA relay nonoperated.

5.713 Operate relay ST.

5.714 Check by stop watch time required relay VA₁ to operate after. relay ST was operated. This time can be adjusted by potentiometer G.

*Terminal strip indicated on this handbook section refer to:

T.S. (C) on unit
T.S. (B) on unit

J95419C
J95420D

Manager. Panel and Step-by-Step
Switching Systems Engineering