

PULSE GENERATOR AND COUNTING CIRCUIT SD-32310-01
ALARM AND TRANSFER TEST
STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section describes a method of testing the alarm and transfer features of the pulse generator and counting circuit (SD-32310-01) associated with E and M lead intercepting trunks, such as SD-32309-01.

1.02 The tests covered are:

A. Alarm and Transfer: This test checks that the alarms function when the circuit fails to restore momentarily to normal after a completed pulsing cycle.

B. False Ground Alarm: This test checks that a prolonged false ground on either of the ST or PU leads will give a visual and audible alarm indication.

1.03 To avoid service reactions, care should be exercised to keep the test time to a minimum, especially when an EP relay is blocked nonoperated.

1.04 When an ST relay in either the trunk circuit or the pulsing circuit is operated, disregard the operation of the pulsing circuit relays; they are incidental to the registering of alarms.

1.05 Two pulse generator and counting circuits are provided on each unit. For convenience, they are referred to in the tests as circuit No. 1 and circuit No. 2.

2. APPARATUS

Tests A and B

2.01 Blocking tools, as required. Use tools and apply as covered in Section 069-020-801.

Test B

2.02 No. 893 cord, 6 feet long (No. 1W13B cord) equipped with two No. 360A tools and two KS-6278 connecting clips (for connecting ground to terminals on unit terminal strip).

3. METHOD

STEP	ACTION	VERIFICATION
A. Alarm and Transfer		
1	Block nonoperated EP relay in circuit No. 1 (see 1.03).	
2	Operate manually ST relay of a trunk associated with circuit No. 1.	Circuit No. 1 relays pulse. TR (transfer) relay operates. Circuit No. 1 AL lamp lighted. Visual, audible alarms operate.
3	Release ST relay.	
4	Remove blocking tool from EP relay.	
5	Depress AR key of circuit No. 1 momentarily.	Circuit restores to normal. AL lamp extinguished. Visual, audible alarms retired.

STEP	ACTION	VERIFICATION
6	Repeat Steps 1 through 5 for circuit No. 2.	
7	With both circuits of pulse generator idle — Operate TR key of circuit No. 1 momentarily.	AL lamp lighted momentarily.
8	Repeat Step 7 for circuit No. 2.	AL lamp lighted momentarily.
B. False Ground Alarm		
1	Apply ground to ST lead terminal 17 on unit terminal strip of circuit No. 1.	FG lamp of circuit No. 1 lighted. Visual, audible alarms operate.
2	Remove ground from ST lead.	
3	Depress AR key momentarily.	FG lamp extinguished. Visual, audible alarms retired.
4	Repeat Steps 1 through 3 for ST lead of circuit No. 2.	
5	Apply ground to PU lead terminal 14 on unit terminal strip of circuit No. 1.	
6	Operate manually ST relay of circuit No. 1 momentarily.	FG lamp lighted. Visual, audible alarms operate. <i>Note:</i> If the ST relay is held operated momentarily, only the FG lamp is lighted. If held longer, FG lamp will then be extinguished and the AL lamp will light.
7	Remove ground from PU lead.	
8	Depress circuit No. 1 AR key.	FG or AL lamp extinguished, circuit restores to normal. Visual, audible alarms retired.
9	Repeat Steps 5 through 8, inclusive, for circuit No. 2.	