

PANEL SYSTEM
ALARM CIRCUIT
NO VOLTAGE PICK UP ALARM
FOR USE WHERE THE SPLIT RINGS OF
MACHINE RINGING INTERRUPTERS
ARE EQUIPPED WITH ONE OR TWO BRUSHES

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 None.

B. CHANGES IN APPARATUS

B.1 Added.

149-CN (SO) relay.

C. CHANGES IN CIRCUIT REQUIREMENTS OTHER THAN THOSE APPLYING
TO ADDED OR REMOVED APPARATUS

C.1 None.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The SO relay is added to prevent an alarm being received due to a momentary opening of the contacts of the ringing (RB) relay.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 The purpose of this circuit is to give an alarm in case the pick up leads from the ringing machine become open. It is for use with ringing machines that have the split ring of the interrupter equipped with either one or two brushes.

2. WORKING LIMITS

2.1 None.

OPERATION

3. FUNCTIONS

- 3.1 To give an alarm when a pick up lead fails to get ground pulses from the interrupter.

4. CONNECTING CIRCUITS

- 4.1 Miscellaneous alarm circuit.

DETAILED DESCRIPTION

5. The "R1" ringing lead is utilized in this circuit to count up a pair of counting relays (A) and (B) then the pick up ground is required to operate the (PB) relay to release the counting relays. If the (PB) relay does not operate due to an open pick up lead the next operation of the (RB) relay on the "R1" lead will operate the (SO) relay in turn operating the (AL) relay through the front contact of the (B) relay. The (AL) relay locks to the back contact of the (PB) relay and brings in the alarms as long as the (PB) relay fails to operate from the pick up lead. A jack designated (PU) is provided for the purpose of connecting the 35-C test set to make tests and readjustments on the (PB) relay and to open up the leads to the interrupter brushes so that testing will not interfere with service.

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