

## EMERGENCY ALARM SYSTEM SD-90642-01 SEPARATE INCOMING ALARM FROM DISTANT OFFICE TESTS

### 1. GENERAL

1.01 This section describes tests of the emergency alarm circuit per Drawing SD-90642-01. This circuit is arranged to receive an alarm from a distant office equipped with an emergency alarm system.

1.02 This section is reissued to add the method of testing the alarm retiring feature, the EA (emergency alarm) bells, and to include a change in apparatus.

1.03 The tests covered are:

- (A) ZT and ZR Relays and Alarm Retiring Feature
- (B) ZT Relay False Ground
- (C) ZR Relay False Battery and Emergency Alarm Bells

### 2. APPARATUS

2.01 One No. 893 Cord, three feet long equipped with two No. 360A Tools (1W13A Cord) and two No. KS-6278 Tools.

### 3. METHOD

#### (A) ZT and ZR Relays and Alarm Retiring Feature

3.01 This test checks that the release of the ZT and ZR relays, caused by a crossed or opened tip and ring toward the distant office, will originate an alarm. It also tests the alarm retiring feature.

3.02 With a No. 893 cord, connect 2RT and RBl winding springs of the DI relay.

3.03 Observe that the DO lamp is lighted (if provided), and that the EA (emergency alarm) bells ring, indicating that the zone relays have released.

3.04 When manual control of audible alarm is provided, depress CO key momentarily and note that G lamp lights, DO lamp remains lighted

and alarm is silenced. Remove connection placed on winding of DI relay and observe that alarm remains silent indicating reoperation of the zone relays.

3.05 When manual control of audible alarm is not provided, connect the No. 893 cord on 2RT and RBl winding springs of DI relay. Observe that the DO lamp lights and emergency alarm sounds. Remove the connection placed on the winding of the DI relay. Note that DO lamp is extinguished and alarm silenced.

#### (B) ZT Relay False Ground

← 3.06 This test checks the ability of the circuit to detect a false ground.

3.07 With a No. 893 cord, connect ground to the 2T spring of the DP relay. Note that ← the ZT relay releases and the alarm sounds.

3.08 Remove the ground connection placed on DP relay and alarm is silenced.

#### ↖ (C) ZR Relay False Battery and Emergency Alarm Bells

← 3.09 This tests the release of the ZR relay if crossed with 24-volt battery and checks EA (emergency alarm) bells.

3.10 With a No. 893 cord, connect 24-volt battery, obtained from test battery supply, to 2B spring of the DP relay.

3.11 The emergency alarm sounds indicating the release of the ZR relay.

3.12 Check that both EA (emergency alarm) bells are ringing. ↖ ↙

3.13 Remove No. 893 cord from the 24-volt battery supply and DP relay.

### 4. REPORTS

↖ 4.01 The required record of these tests should be entered on the proper form. ↙