

## 5A TIMER TESTS

### 1. GENERAL

1.01 This section describes a method for testing each of the six individual timing circuits comprising the 5A timer.

1.02 *General Description:* The 5A timer is intended for use with the 400A tone generator (receiver off-hook tone) to provide for six independently timed connections to the generator output and for automatic disconnect after a timing interval of approximately 55 seconds. Each of the six connecting and timing circuits functions in the same manner.

1.03 The tests covered are operation of the timing circuits. Steps 1 through 6 test circuits on the top printed wiring card, and Steps 7 through 12 test the bottom card.

1.04 All tests require taking the timer out of service.

1.05 If desired, Steps 1, 3, 5, 7, 9, and 11 may be performed simultaneously. Similarly, Steps 2, 4, 6, 8, 10, and 12 may be performed simultaneously.

1.06 Failure to observe verification is an indication of defective circuit on printed wiring card under test.

1.07 No maintenance should be attempted on the printed wiring cards. Defective cards should be forwarded to centralized repair center in accordance with local practice.

### 2. APPARATUS

2.01 KS-3008 stop watch or equivalent.

2.02 One W1AP cord, or equivalent, for each connection between terminals on TB1.

### 3. METHOD

STEP	ACTION	VERIFICATION
1	At TB1, connect terminal 35 to terminal 31.	Relays A1 and B1 operate. Within 55 $\pm$ 15 seconds — Relay A1 releases.
2	Remove connection between terminals 35 and 31.	Relay B1 releases.
3	At TB1, connect terminals 34 and 31.	Relays A2 and B2 operate. Within 55 $\pm$ 15 seconds — Relay A2 releases.
4	Remove connection between terminals 34 and 31.	Relay B2 releases.
5	At TB1, connect terminals 33 and 31.	Relays A3 and B3 operate. Within 55 $\pm$ 15 seconds — Relay A3 releases.
6	Remove connection between terminals 33 and 31.	Relay B3 releases.

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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
7	At TB1, connect terminals 32 and 31.	Relays A4 and B4 operate. Within 55 ±15 seconds — Relay A4 releases.
8	Remove connection between terminals 32 and 31.	Relay B4 releases.
9	At TB1, connect terminals 14 and 31.	Relays A5 and B5 operate. Within 55 ±15 seconds — Relay A5 releases.
10	Remove connection between terminals 14 and 31.	Relay B5 releases.
11	At TB1, connect terminals 13 and 31.	Relays A6 and B6 operate. Within 55 ±15 seconds — Relay A6 releases.
12	Remove connection between terminals 13 and 31.	Relay B6 releases.