



Test Procedure for the MC33340/2 Evaluation Board

11/4/03

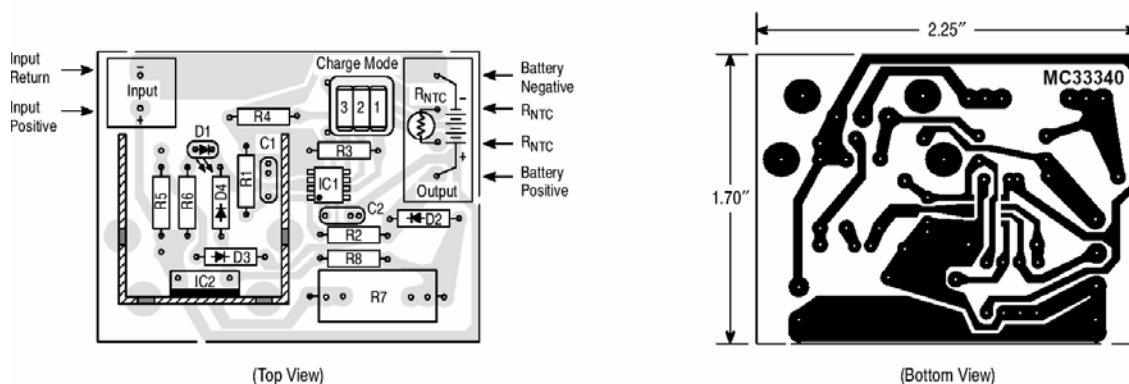


Figure 1: MC33340/2 Demo Board Assembly Drawing

Refer to Table 1 for bolded test values in the following procedure.

- 1) Apply **V1** across Input Positive and Input Return Connections. Set current limit at 2A.
- 2) Open switch 2. Close switches 1 and 3.
- 3) Apply **V2** between Battery Positive and Battery Negative Connections. The V2 power supply must be able to sink current since it is simulating a battery being charged. Set current limit at 2A.
- 4) The D1 LED should be blinking.
- 5) Apply **V3** between Battery Positive and Battery Negative Connections.
- 6) The D1 LED should be continuously on.
- 7) Apply **V2** between Battery Positive and Battery Negative Connections Wait 1 second.
- 8) The D1 LED should be blinking again.
- 9) Apply **V4** between Battery Positive and Battery Negative Connections.
- 10) The D1 LED should be continuously on.
- 11) Apply **V2** between Battery Positive and Battery Negative Connections.
- 12) The D1 LED should be blinking again.
- 13) Close Switch 2.
- 14) The D1 LED should be continuously on.*

Table 1: Test Values

	MC33340	Unit
V1	12	V
V2	3.6	V
V3	6	V
V4	2	V

* This is only a functional test. This occurs because R3 is connected to the “t1/Tref High” pin and R4 is connected to the “t3/Tref Low” pin. When switch 2 is grounded it forces the NTC thermistor comparator voltage below the overtemperature threshold and the overtemperature latch enables. If one wishes to check the functionality of the timer circuit, simply remove the R3 and R4 resistors.