

# Wee Blinky Assembly Instructions

## Step 1: Get Ready!

### Got parts?

Make sure you have all the parts:

- 1 x Wee Blinky PCB
- 2 x 1K $\Omega$  resistors
- 2 x 33K $\Omega$  resistors
- 2 x LEDs
- 2 x transistors
- 2 x capacitors

### Tools!

You will need these tools:

- Soldering iron & solder
- Side cutters
- Wire strippers (maybe)

### Note: Parts on tape

Some parts may be supplied on tape. This protects the parts during shipment. Don't try to peel off the tape. Instead, just cut the leads from the tape. This keeps tape adhesive residue off the parts.

## Step 2: Install parts in order

Insert each part into PCB. Solder leads to PCB. Trim leads with cutters. Repeat until you run out of parts. Observe polarity! Don't burn yourself!

### 1<sup>st</sup> Resistors

Resistors are not polarized. Identify the two different values by their stripes:  
R1, R4: 1K $\Omega$  – brown, black, red  
R2, R3: 33K $\Omega$  – orange, orange, orange

### 2<sup>nd</sup> LEDs

LEDs are polarized. Insert the long lead (the *anode*) into the hole with the square pad. The LED base has a flat side to indicate the cathode.

### 3<sup>rd</sup> Transistors

Transistors are polarized and must be installed the right way. Each transistor has a round side and a flat side. Use the part outline on the PCB as a guide.

### 4<sup>th</sup> Capacitors

The capacitors are polarized. The negative lead is labeled with minus (“-”) signs on the capacitor and goes in the hole with the round pad.

## Step 3: Check part placement



Photo 1: A properly assembled Wee Blinky

You are almost done! Compare your assembled Wee Blinky with this one. Pay attention to the polarity of the polarized parts. If everything looks right, proceed to Step 4.

## Step 4: Apply power



Photo 2: Power connection points for the Wee Blinky.

Your Wee Blinky needs between 3 volts and 12 volts to blink. Connect your power source to the pads at the bottom of the PCB marked “+” and “-”. You can lace the wires through the two center holes to act as a strain relief. Now you are done!

### Problems?

First, double check parts placement. Second, take a good look at your solder connections. Third, make sure your power supply has some juice left. If it still doesn't blink, contact [dale@dalewheat.com](mailto:dale@dalewheat.com) and ask for help. We'll make it blink!