

BIAS ADJUSTMENT PROCEDURE:

Before the first power-up, twist the knobs of bias trimpots R23 and R73, at least 10 full rotations counter-clockwise (“to the left”). This reduces the bias current so components don’t overheat while you’re doing the adjustment.

To set the left channel bias, connect your voltmeter across R77 as shown above. Then slowly adjust trimmer potentiometer R73 until the voltage across R77 is 5.10 volts. Five point one zero volts.

To set the right channel bias, connect your voltmeter across R27. Then slowly adjust trim pot R23 until the voltage across R27 is 5.10 volts.

Wait 5 minutes for the circuits (and the wall wart!) to fully warm up to thermal equilibrium, then repeat the measure-and-adjust procedure, one more time.

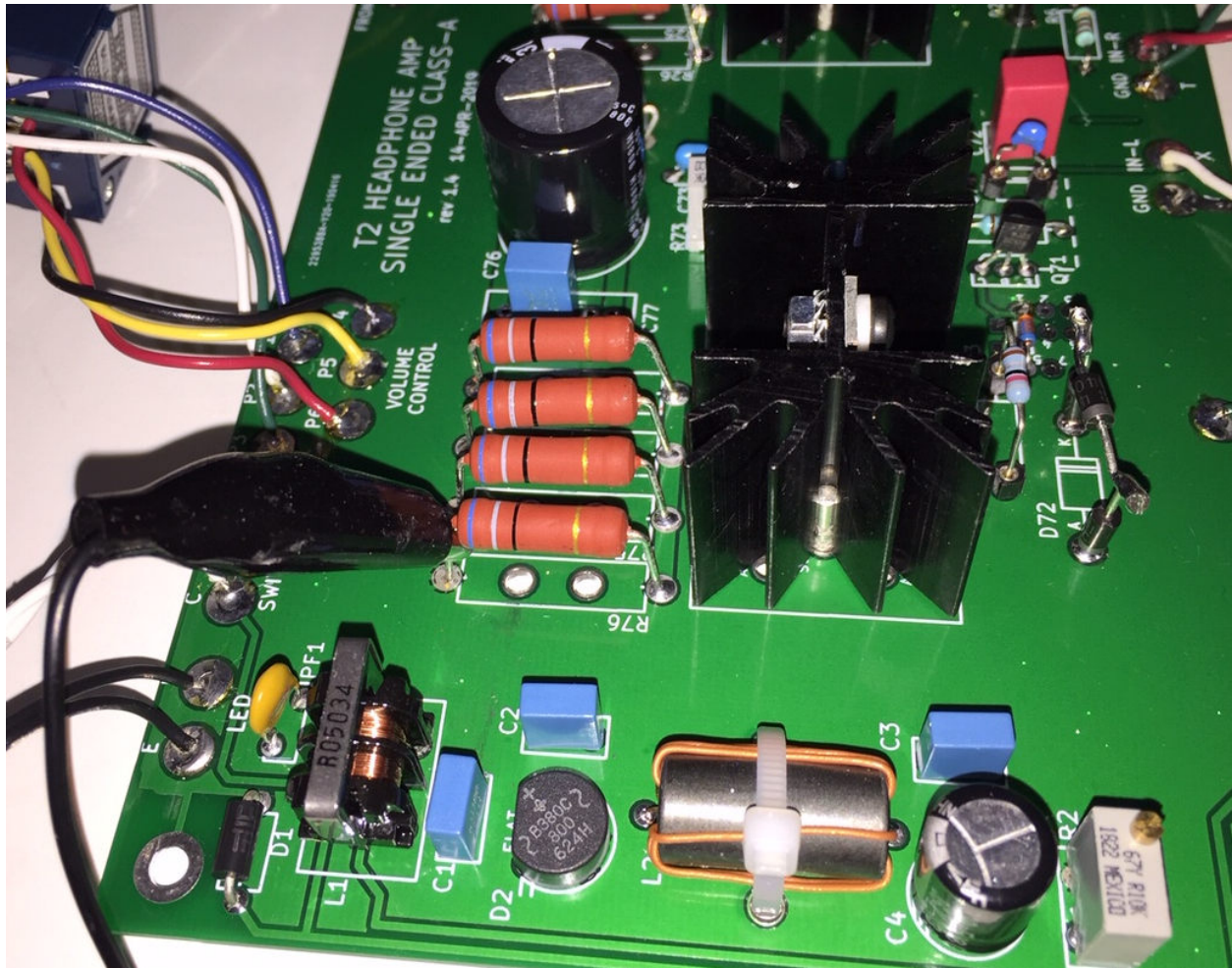
LED BRIGHTNESS ADJUSTMENT:

The power-is-on pilot light (LED) of T2 has a brightness control. This allows each builder of T2 to set the LED brightness exactly as they see fit. Want it super dim? No problem. Want it super bright? No problem. Want to change it so your boss or your spouse stops complaining about the brightness? No problem.

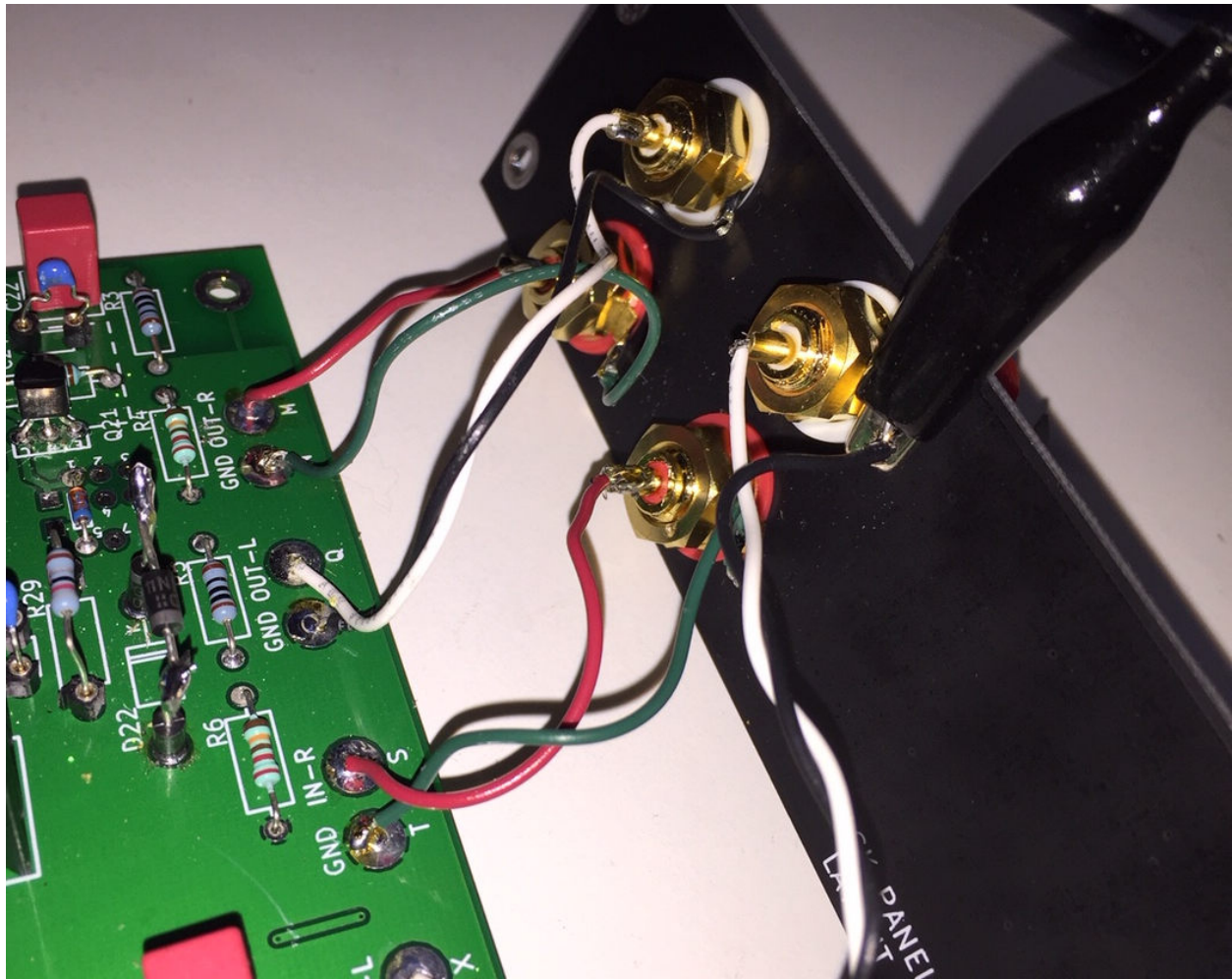
Before the first power-up, twist the knob of trimpot R2, at least 10 full rotations counter-clockwise (“to the left”). This reduces LED current so you don’t accidentally destroy the LED before adjustment begins.

Now slowly dial up the brightness by turning the knob of R2 clockwise (“to the right”), slowly. When you get the LED brightness you want, stop dialing.

You might find it useful to adjust the brightness twice, once during daylight and then again in a darkened room. Perhaps you’ll want a final setting somewhere in between.



When measuring various node voltages on the PCBoard, you'll probably want to connect one of your voltmeter's probes to circuit Ground. This lets you measure with the remaining probe in one hand, and simultaneously take notes holding a pencil in the other hand. One convenient place to access Ground on the board is the Ground leg of resistor R76, shown in the photo above. Put an alligator clip on the long metal leg of the resistor and connect the other end to your voltmeter's probe tip.



Another obvious place to access Ground is the “Cold” lug of any RCA jack on the back panel. In the picture above an alligator clip is placed on the “Cold” lug of the OUT-R RCA jack.