

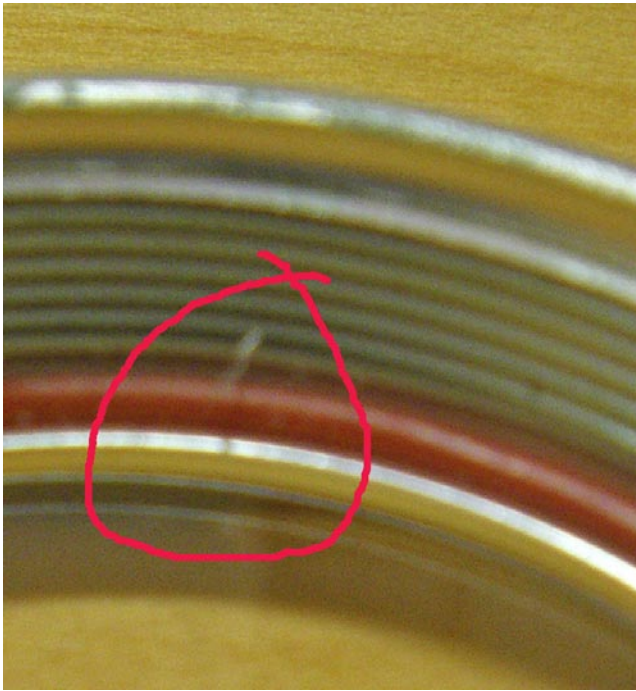
The new light:



Cover off:



Swarf found already:



Removing the retainer:





Note the pozi drive screw heads next to the LED - these are new...:



Remove the handlebar bracket:



Note this batch actually has some heatsink goo...:

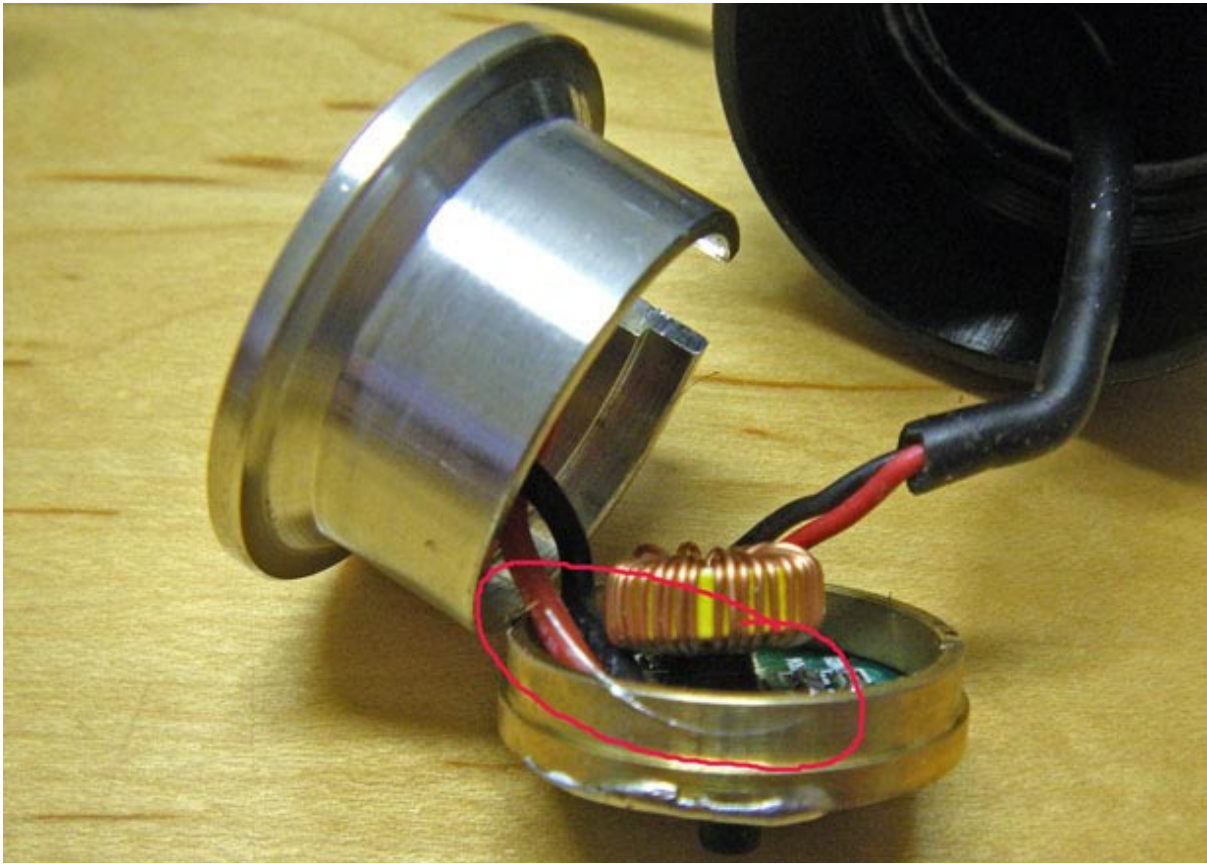


Using a large screwdriver carefully prise the brass PCB carrier out of the main body - don't mangle or munt the wiring or the toroidal inductor though:

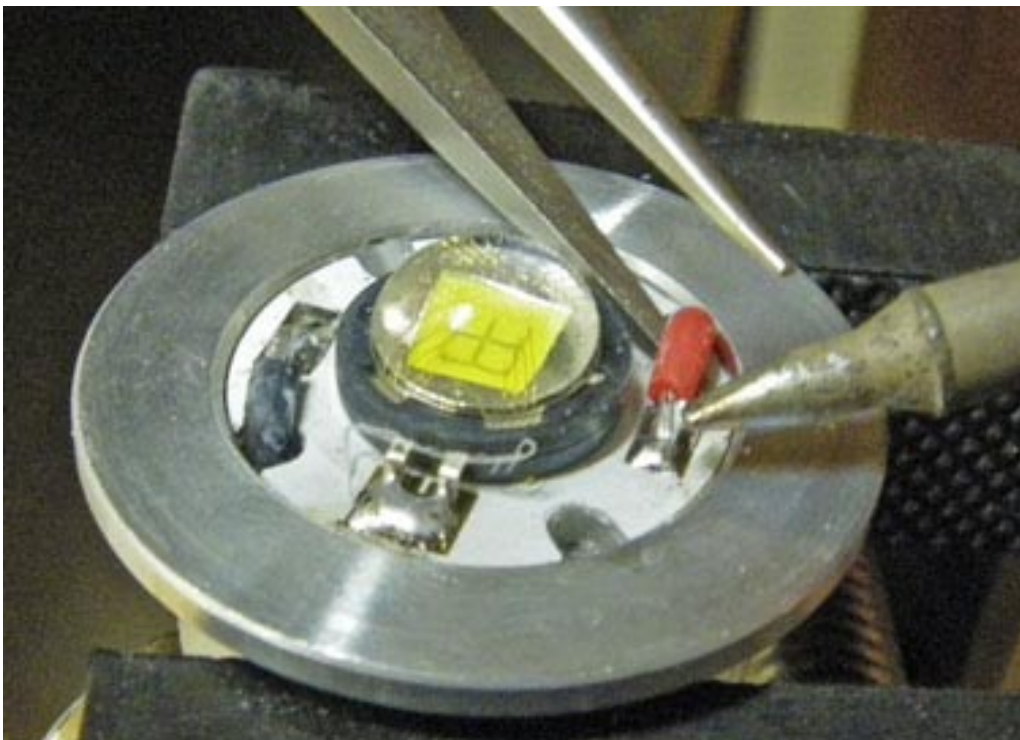




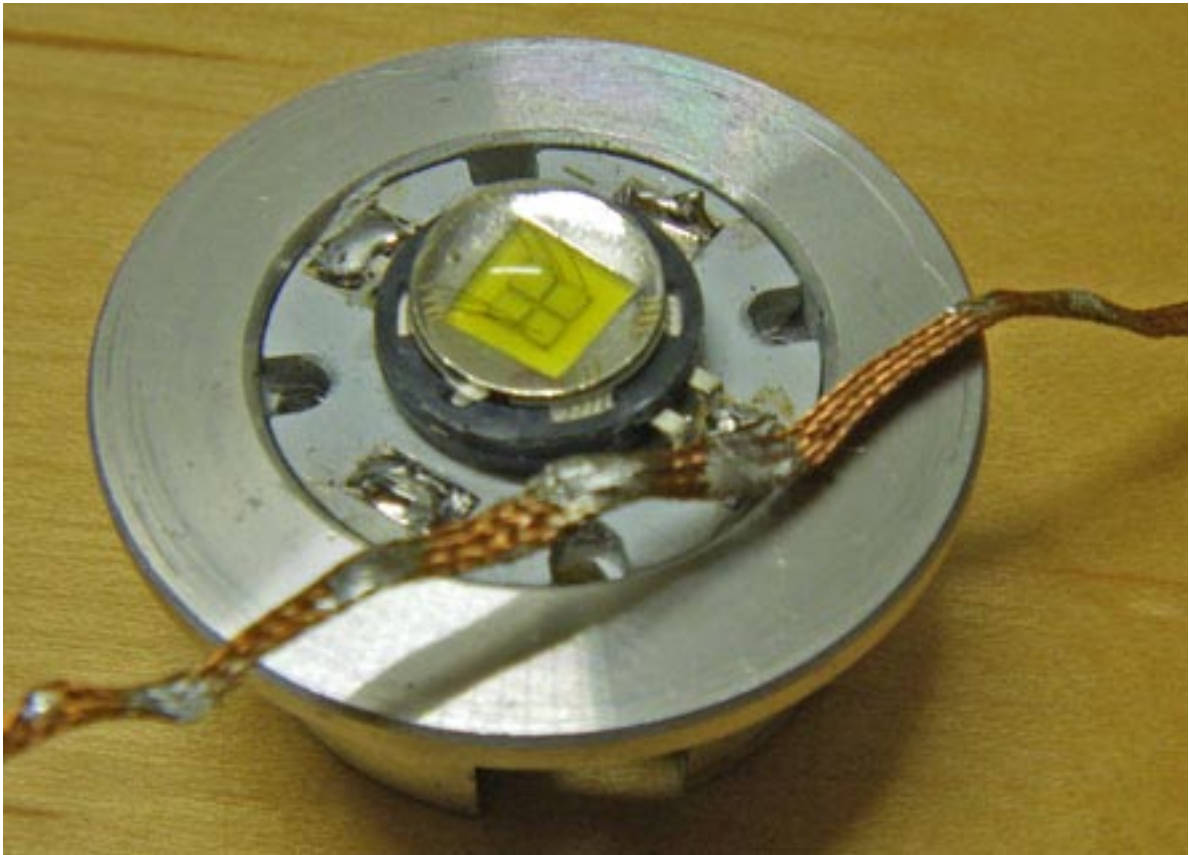
Here it is free & note the large piece of metal swarf:



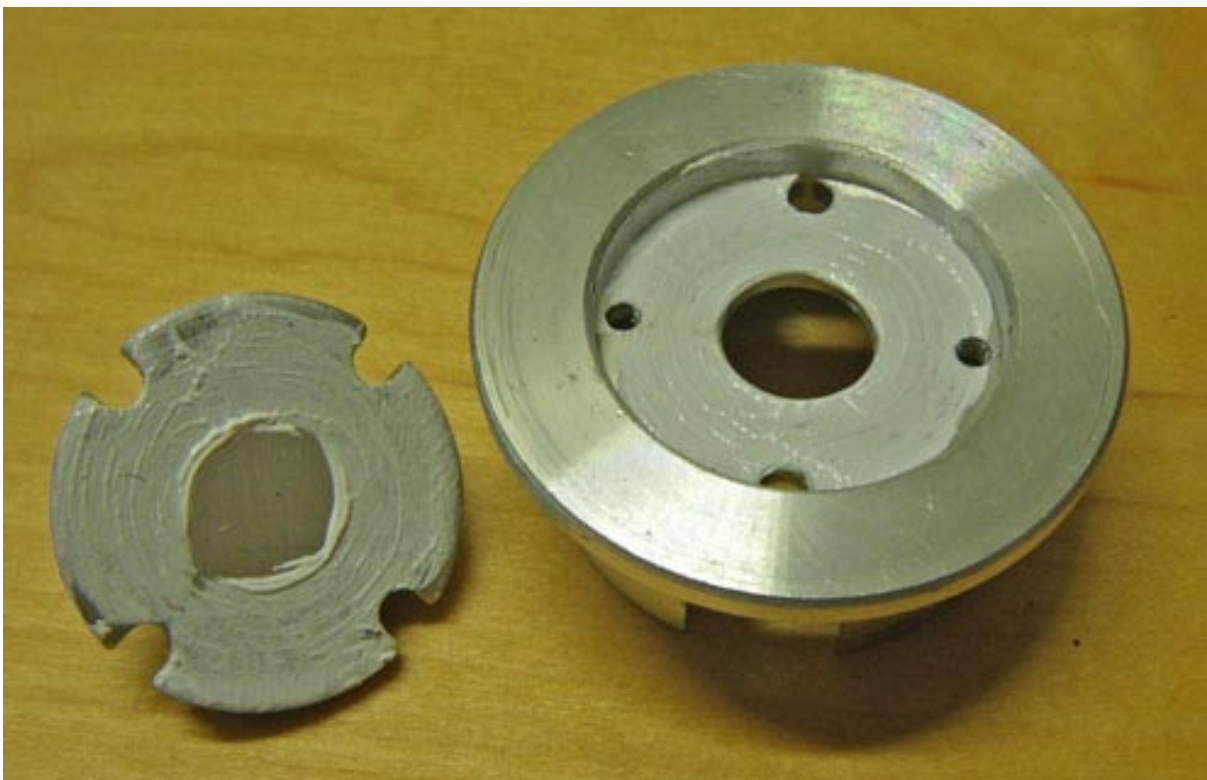
Remove the LED wires:



Remove some of the solder on the led terminals and lift the LED from its star (with solder hot):



Heat sink good between the star and the body - that is new...:

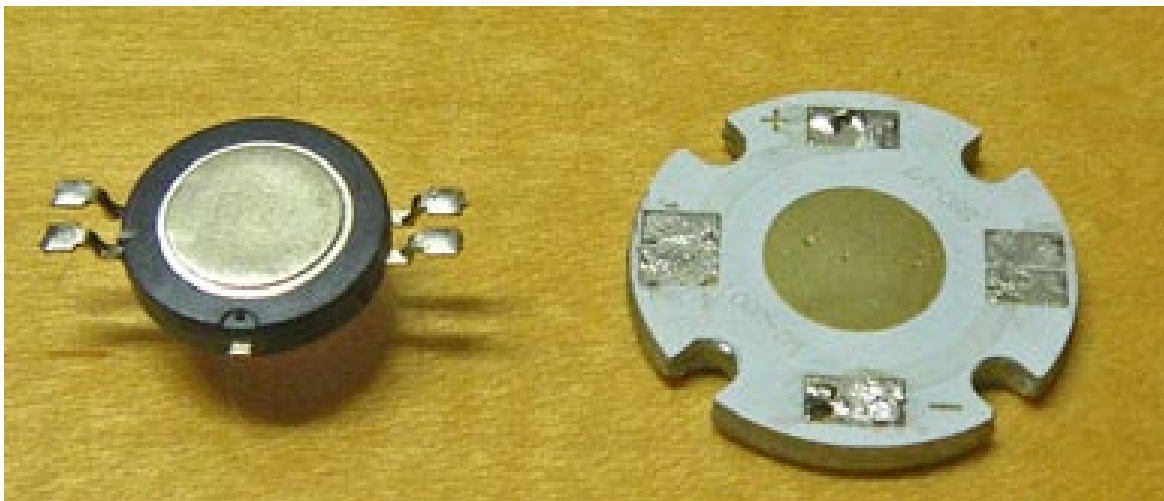




New too is the presence of heatsink goo between the LED and the star:



Clear up the star and the LED - note the terminals and pads have been cleaned up:



Mix up AAA heatsink epoxy 1:1 ratio:

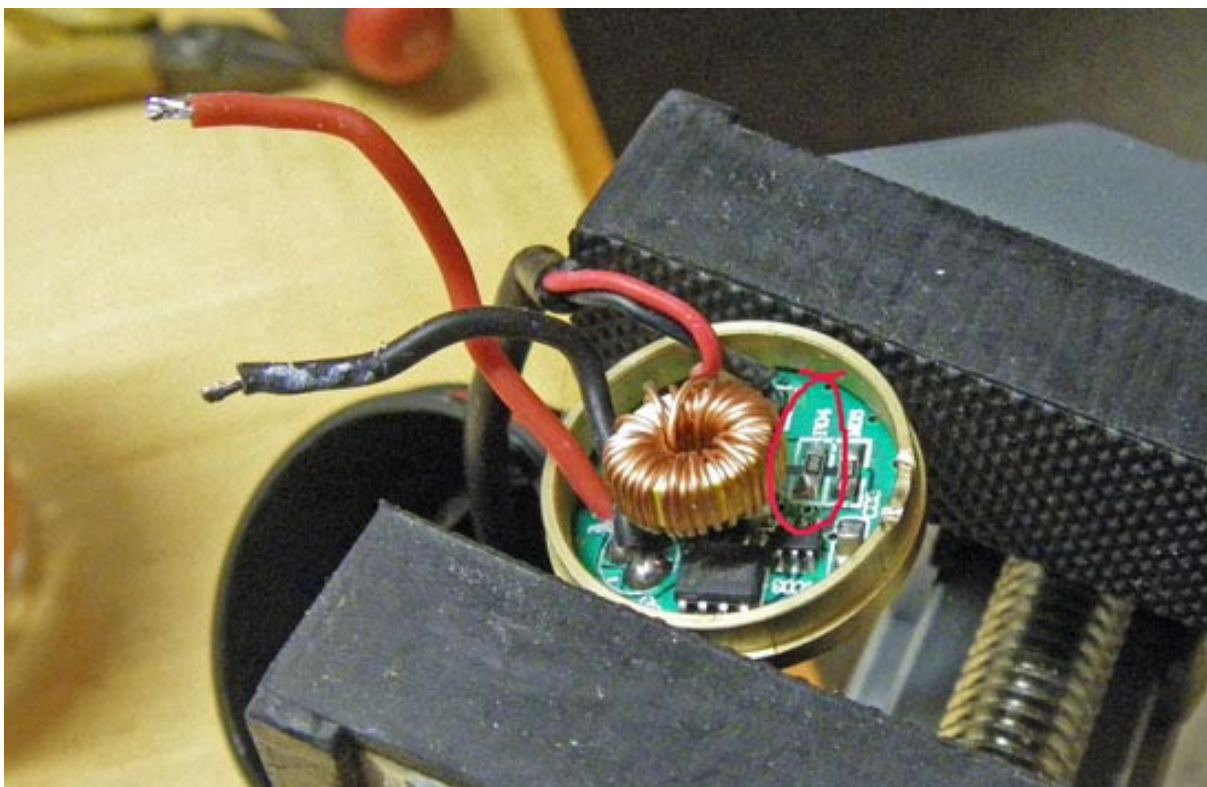


Apply a small amount evenly to the back of the LED and the star. Solder the star on promptly and apply pressure while the epoxy sets (the thinner the layer is the better it works).



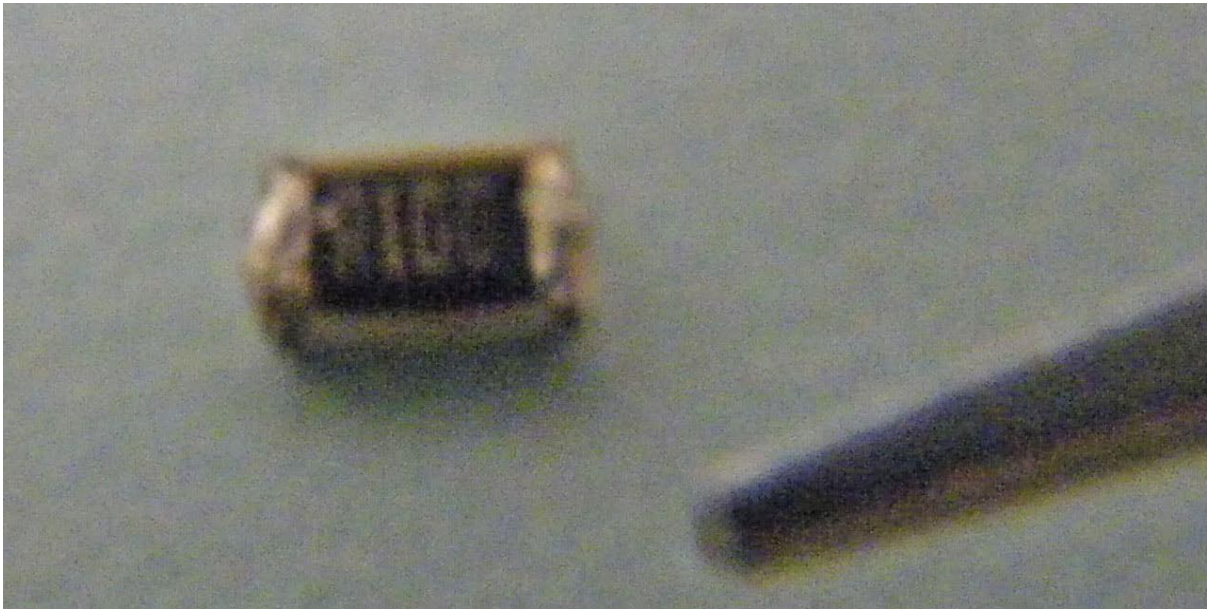
Apply Arctic Silver 5 (pretty much the best available) heatsink goo onto the faces between the star and the body. Tighten the screws.

Now we need to remove resistor R04 because it is somewhat under-rated for the  $\sim 0.4$  Watts it needs to dissipate inside a hot body... It is shown here:

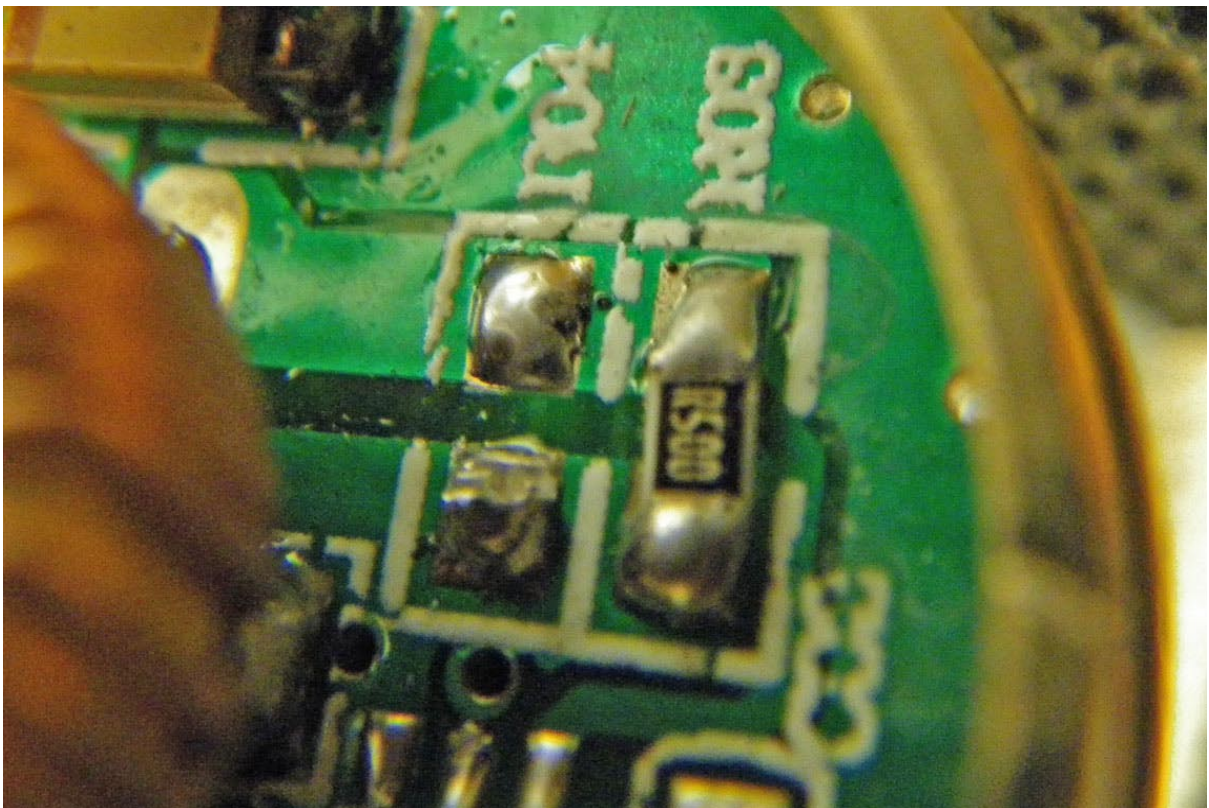




That sucker is 0.1 Ohms hence the R100. Sorry about the crap photography:



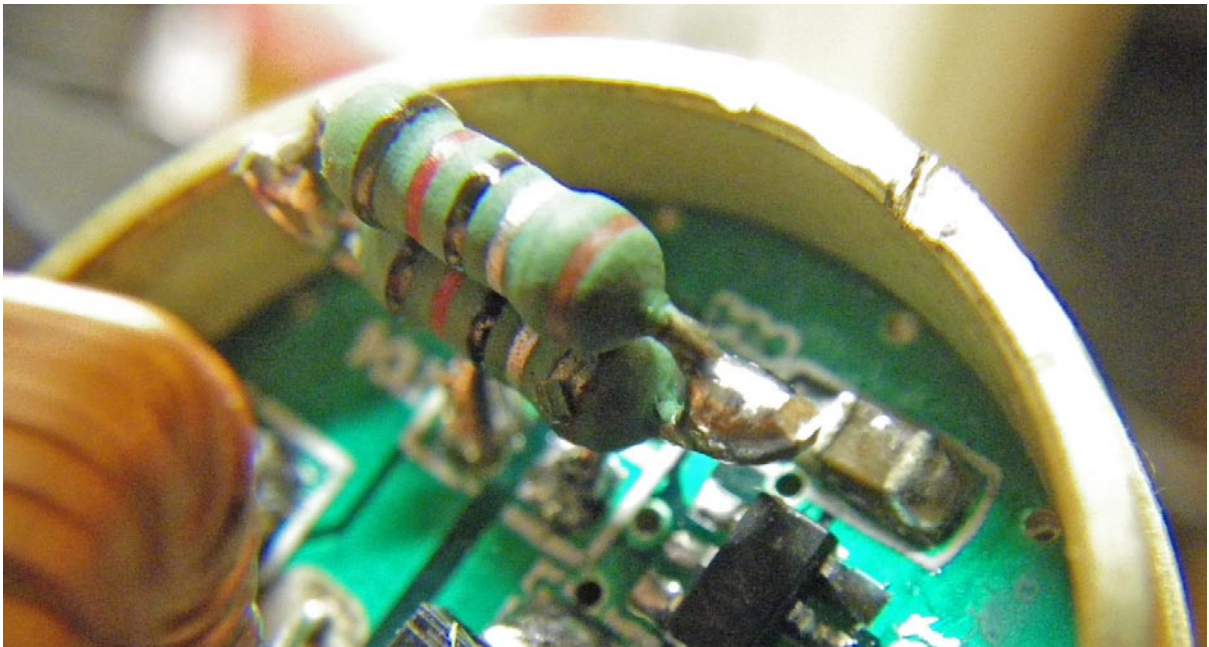
This is where we need to do something better:



Two 0.6Watt 0.2 Ohm resistors in parallel are my choice... (crap photography again):



In they go. Take care that they are not too close to the metal rim and don't apply too much force on the pads. Check the soldering with a magnifier of some sort:





After resoldering the LED wires carefully press the brass PCB retainer into the body - polygrips are ideal:



**CHECK THAT THE TORCH ACTUALLY WORKS NOW** (much too hard to fix with goo everywhere)

Apply Arctic Silver 5 this time to the lip between the light's body and the LED carrier:



And to the carrier itself (more crap photography from this guy):



Reassemble the retaining ring with Arctic Silver 5. Note the goo coming out of the hole:





Reinstall the handlebar bracket with some medium strength threadlock:



Then screw the reflector and lens back on and you are done:

