

Smart 6 PCB Assembly - Assembly Procedure

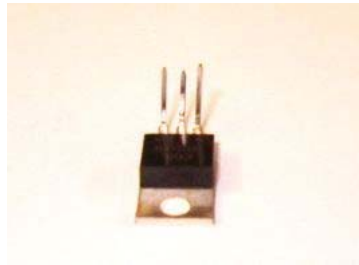
1. Scope:

To assemble the Smart 6 PCB.

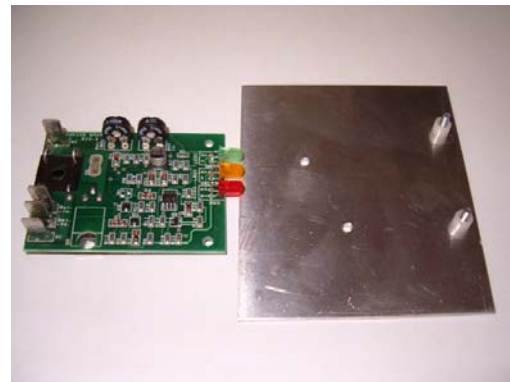
2. Equipment Used:

1 x Flat Screwdriver
1 x M3 Nut Driver

3. Method:



- The side with the surface mount components is the top side of the board.
- Hold the board with the top side facing you and the side where the LED's will go must be on your right.
- Insert the LED's from top to bottom in the following order, Red/ Yellow/ Green.
- Next put in the rectifier. Take careful note of the positive pin. DO NOT SOLDER THE RECTIFIER.
- Next insert the SCR from the rear of the PCB. DO NOT SOLDER THE SCR.



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- Place the PCB on the Smart 6 heat-sink. Match the holes on the heat-sink to those on the PCB.
- Once you have the correct orientation of both the heat-sink and the PCB, place 3 x M3x12 screws from the rear of the heat-sink. The 3 screws will go through the 2 mounting holes and 1 through the rectifier holes.
- Place a 5mm spacers over the 2 mounting hole screws.
- Next align the PCB over the mounting screws.
- Screw a M3 nut on each of the mounting screws including the screw that goes through the rectifier. Do not tighten the nuts.
- Put 2 spacers at the rear (near the rectifier) of the PCB to keep the PCB level.

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- Now the nuts can be tightened down.
- The SCR now needs to be screwed down.
- Align the mounting hole of the heat-sink and the SCR mounting hole. Put a M3x6 screw from the TOP of the PCB through the 6mm hole in the PCB.
- Attach a M3 nut at the rear of the heat-sink and tighten.
- Wiggle the leads of the SCR such that there is no strain on the SCR.
- Solder the SCR and rectifier leads. The Smart 6 PCB Assembly is now ready for testing.
- The tested assemblies can now be sent to stores.

