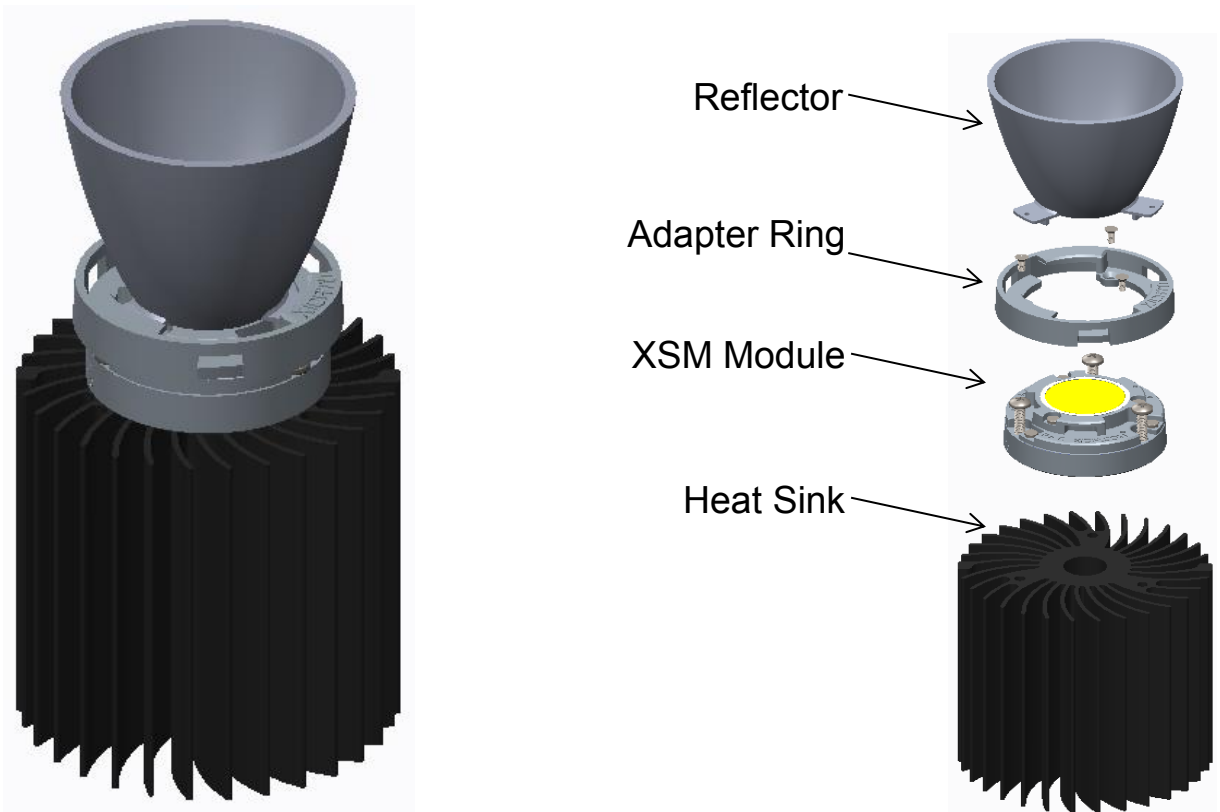


Xicato Spot Module (XSM) Assembly Instructions

Version 20131104

General Assembly

To assemble the Xicato Spot Module (XSM), attach the heat sink to the bottom of the XSM by using three M3x12 pan head screws, torqued to 8 in-lbs (0.9N-m). It is important to ensure that the top surface of the heatsink is flush with the bottom surface of the XSM. If a reflector adaptor ring is required, it may be attached to the top of the XSM, using three M2x5 flat head screws. The reflector can then be inserted into the adapter ring and twisted, clockwise, to lock into position.



Important!

Do NOT add thermal grease, an additional thermal pad or any other thermal interface material to the bottom surface of the XSM or the mating surface of the heatsink. All XSM modules ship with a pre-installed thermal pad. The addition of an additional TIM will REDUCE the thermal performance of the heatsink.

Wiring Options

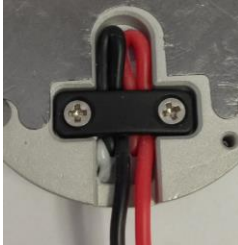
The wires of XSM can be routed in two configurations: through the center of the module or out the side of the module. The standard configuration for modules shipped from the factory is with the wire routed through the center. The red wire is positive and the black wire is negative.



Standard Configuration (Through the Center)



Standard Configuration (Out the Side)



Optional Configuration (Staggered Wire)



Incorrect Placement (Strap bowing and pinching wires)

Important!

When changing the wiring configuration, it is absolutely critical that the wires and the black wire strap sit below the aluminum mounting surface. The wire strap, wires or screws protruding past the aluminum mounting surface will cause an increase in T_c , potentially causing failure. Additionally, when changing to the optional configuration, the wires must be staggered (next to each other) to avoid crushing the wires and causing an electrical short.

Mounting Examples



XSM is incorrectly mounted with a gap between the bottom surface of the module and the top surface of the heatsink.



XSM is correctly mounted. The bottom surface of the module is completely flush with the top surface of the heatsink.