

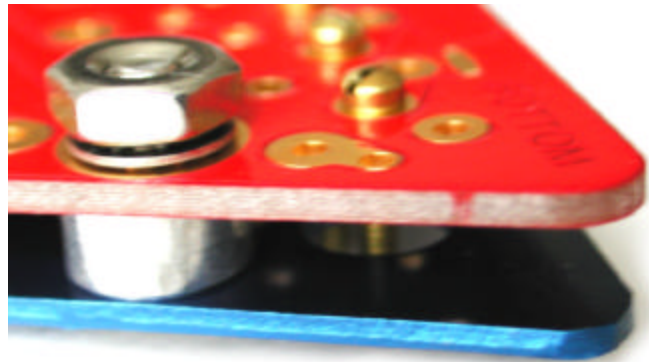


# PROFESSOR MOTOR CONTROLLERS

## **Heat Sink Installation Instructions (PMTR2069)**

*Note : This heat sink may be used with any Professor Motor controller including “Plus Series” (blue circuit board) and the new “Silver Series” (red circuit board). This is required for a “Silver Series” controller that uses the variable sensitivity system.*

**Step 1.** Mount the heat sink loosely with the mounting hardware provided. Make sure that the lock washer is under the nut and that the aluminum mounting bushing that is around the screw is set up to allow the bushing to be flush to both the heat sink and the circuit board (this bushing is only chamfered to clear the screw on one side). If using the PMTR2070 Variable Sensitivity kit it is critical that the holes in the heat sink line up precisely with the brass screws which exit the back of the circuit board. *If there is misalignment of the heat sink to these screws and the knurled sensitivity adjusting knobs are very loose, it is possible that the heat sink and the knobs will touch & short out.*



**Step 2.** Tighten the mounting nut slightly and double check alignment. When satisfied tighten the mounting screw/nut VERY TIGHT. Rotate the heat sink around the mounting screw slightly, if required, to line up the big holes with the large holes where the handle screws pass through on the circuit board. Make sure that the plastic feet of the heat sink are resting on or close to the back of the circuit board.



**IMPORTANT !** : Check between the circuit board & the heat sink to make sure that none of the electrical connections might short out on the heat sink. Be particularly careful around the mechanical style circuit breaker connections (if used) and the main wire lead (red/white/black) connections.

**PERFORMANCE TIP** : You can improve the effectiveness of the heat sink by filling the void around the mounting screw (inside the aluminum spacer) with a thermally conductive grease or compound (not included). This type of material is available from a Radio Shack type store or electronics supplier.

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