

# Cine-tal

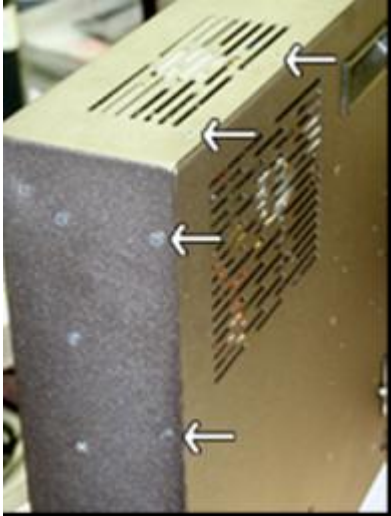
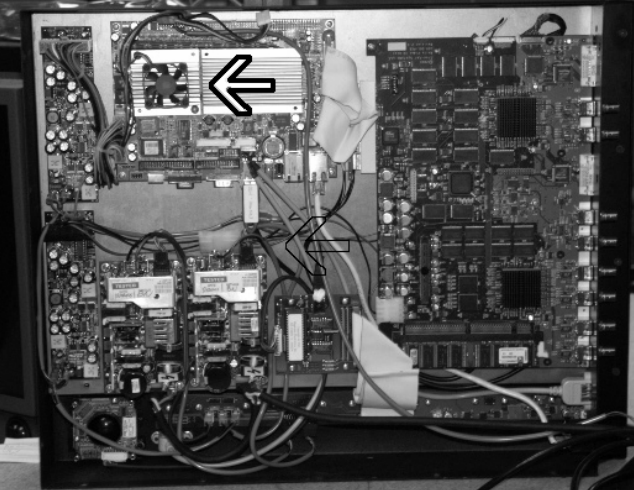
Title: Cinemage Fan Speed Modification Instructions

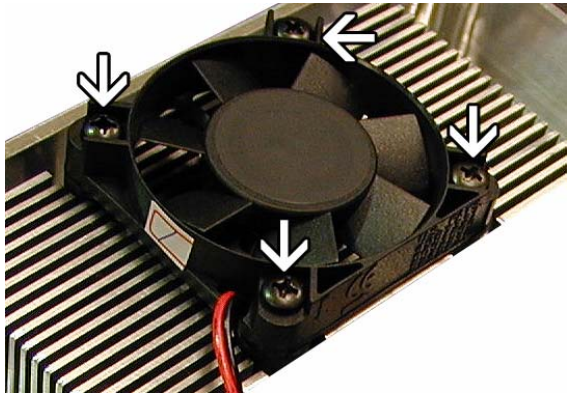


Date: May 16, 2006

## Summary:

Follow these instructions when conducting a field modification of the CPU fan on all Cinemage models. This modification will slow the fan speed and reduce noise of the system.

**Note:** This modification will not violate your Cine-tal Warranty.

Step	Description
1	Power off the system and disconnect the power cord from the rear of the system.
2	<p>Remove the rear panel of the monitor by removing 18 - M4 flat head hex socket screws. The screws are located on the top, bottom and sides unit near the rear edge of the assembly.</p> 
3	 <p>Locate the main processor board.</p>

4	<p>Disconnect the fan power cable from the main processor board. Remove the fan by removing the four (4) screws from the CPU heatsink.</p> 
5	<p>On the fan's power cable cut the red wire with a pair of wire cutters. Strip each end of the red wire.</p> 
6	<p>Slide a 1 inch piece of heatshrink tubing over one end of the red wire.</p>
7	<p>Solder a 100 Ohm 1/2 watt resistor to each end of the red wire.</p> 
8.	<p>Slide the heatshrink tubing over the resistor and heat it with a heat gun to insulate the wire and resistor from shorting against chassis ground.</p>
9.	<p>Re-install the fan into the CPU heatsink.</p>

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