

# Roadie Warp Blower Kit Installation Instruction Sheet

## INTRODUCTION

The Warp Blower Kit provides enhanced cooling to the Warp Module heatsink. This considerably lowers thermal stress on the board and will increase reliability of the module. This kit is compatible with the following projector models below.

Model Name	Part Number
Roadie 25K	38-DCP400-51
Roadie 25K LE	38-DCP400-02
Roadie HD+30K	38-DCP400-61
Roadie HD+35K	113-003104-01

## SAFETY AND WARNING GUIDELINES

**⚠ DANGER** HIGH VOLTAGES MAY BE EXPOSED! Always power down and disconnect power sources prior to servicing. Once the projector is powered down, allow the cooling fans to automatically turn OFF before disconnecting from AC and opening the projector.

**⚠ WARNING** QUALIFIED SERVICE TECHNICIANS REQUIRED! All module replacement procedures must be performed by Christie accredited service technicians.

**⚠ WARNING** NON-INSULATED DANGEROUS VOLTAGES MAY BE EXPOSED! Always disconnect from AC prior to disassembly.

**⚠ WARNING** OBSERVE ALL ELECTROSTATIC PRECAUTIONS! Use a grounded wrist strap when handling electronic assemblies.

**⚠ CAUTION** Never operate the projector (or the fans) without all the covers installed.

## KITS REQUIRED

- 003-102133-01 ASSY Fan Warp Card
- KoRE 10-Bit Librarian Setup PC application (available at [www.christiedigital.com](http://www.christiedigital.com))
- warp\_20.rff (available at [www.christiedigital.com](http://www.christiedigital.com))
- Projector software 1.9C119 or higher

## TOOLS REQUIRED

- Phillips™ #1, #2
- 7/32" socket wrench
- adjustable wrench

## INSTRUCTIONS

### 1. Remove TIPM Card Cage

- Remove (6) #2 Screws surrounding the card cage face plate.
- Grasp handles and pull the TIPM to remove it and place gently on a working surface. See Figure 1.



FIGURE 1 REMOVE TIPM CARD CAGE

### 2. Swap Backplane Screw For Stand-Off

- Remove the #1 screw indicated by the red arrow in Figure 2.
- Replace the screw with the 16 mm stand-off provided with the kit and gently tighten it.



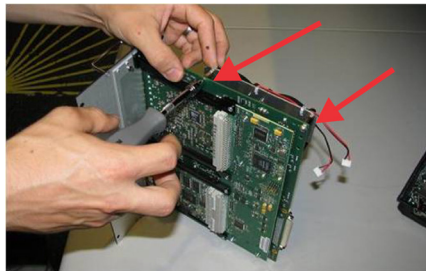
FIGURE 2 REPLACE #1 SCREW WITH 16MM STAND-OFF

### 3. Attach Plate Via Center Screw

- a. Move plate into position, lining up the three mounting points.
- b. Loosely install center screw provided in the kit (not the previously removed screw). Center screw is marked by the red arrow in Figure 3.
- c. Loosely install the nuts on the two stand-off's on the bottom of the TIPM.
- d. Gently tighten the screw and 2 nuts indicated with red arrows in Figures 3 and 4.



**FIGURE 3 INSTALL CENTER SCREW**



**FIGURE 4 TIGHTEN SCREW AND NUTS**

### 4. Plug In Fan Power Connectors

- a. Plug each fan connector into the TIPM connectors P23 and P24 shown in Figure 5.
- b. The longer harness plugs into P24, the shorter harness into P23 (No electrical difference)



**FIGURE 5 PLUG IN FAN POWER CONNECTORS**

### 5. Visual Inspection of Blower Kit Installation

- a. Check that the screw and two nuts are tight.
- b. Check that the plate is parallel to the TIPM PCB.
- c. Check that both fan harnesses are fully seated.

- d. Check that the harnesses do not protrude past the edge of the plate as indicated by the red arrow below. Refer to Figure 6.



**FIGURE 6 INSPECTION OF BLOWER KIT INSTALLATION**

## **6. Re-Install TIPM Card Cage**

- a. Line up edges of TIPM with the guides.
- b. Gently push TIPM Card Cage into the projector. Extra caution needs to be taken when blowers are passing the inlet of the projector as Blower Kit has reduced clearance.
- c. If cage catches then gently bias the card cage towards the front of the projector.
- d. Once fully inserted into the projector apply a firm force to seat the TIPM with the backplane.
- e. Re-install (6) #2 screws around the edges of the cage.

## **7. Install New Software**

- a. Follow the typical main software installation/update process and install version 1.9D or higher into the system. If version 1.9D or higher is not available install version 1.9C119 (k19c119.rff).