

INSTALLATION INSTRUCTIONS

DISK DRIVE COOLING FAN ASSY & MOUNTING BRACKET

The PDB-00440-93 disk drive cooling fan assembly and mounting bracket consists of two subminiature 5 volt DC fans installed in a 5-1/4" mounting bracket, plus additional hardware to mount the assembly in either the standard Eagle chassis or AM-990 chassis. The assembly is mounted per the instructions below in front of a disk drive in the 5-1/4" drive mounting bay.

Before starting to install the cooling fan assembly into the specific computer system, perform the following steps prior to going to the instructions for the specific system type:

- Inspect the fan assembly to determine if the fan filters have been removed. If not, please remove them by unsnapping them from the assembly. They will not be used.
- The disk drive to be cooled will be mounted directly behind the fan assembly. Attach the 3-1/4" to 5-1/4" disk drive mounting brackets which have been included in the fan assembly kit to the disk drive. The brackets should be attached to the drive using the mounting holes nearest the ends of the drive (front to back). Mount the drive in the highest mounting position possible so the drive sits above the side brackets, allowing maximum air flow under the drive.

Eagle Systems

- Follow instructions in the Eagle Service Manual to remove the top cover and gain access to the inside of the Eagle chassis.
- First remove the blank plastic cover which covers the disk drive bay that the disk drive and fan assembly are to be installed into. You may also need to remove the metal cover plate behind the plastic cover.
- Install the disk drive into the drive bay and secure with hardware provided. Position the drive assembly back far enough so that the fan assembly can be installed.
- Connect the SCSI cable to the disk drive. Check to see that the SCSI address jumpers have been properly set for your particular system configuration.
- Mount the fan assembly in the selected 5 1/4" drive bay in front of the disk drive. Note that the fan assembly does not physically attach to the disk drive or its mounting brackets.
 1. Slide the fan assembly into this drive bay mounting cage from the outside.
 2. Mount the fan assembly to the mounting cage with four screws included, (these metric screws have fine threads and pan heads). Open the door of the fan assembly while tightening the screws to assure the door will open after installation (the fan assembly protrudes out from the bezel similar to a streaming tape drive).

- Plug one DC power connector from the fan assembly into the power connector on the disk drive, and the other DC power connector into the power supply source.

AM-990 Systems

- Follow instructions in the AM-990 Service Manual to remove the side cover and gain access to the inside of the chassis.
- Select the location to mount the disk drive and fan assembly. We recommend installation below the front door opening, so the disk drive and fan assembly are behind the door and cover panels.

To mount below the front door opening:

- Remove the AM-990 filler panel covering the area you wish to mount the disk drive and fan assembly.
- Remove the fan assembly door as follows:
 1. Press the top of the door of the fan assembly to open it.
 2. Holding the fan assembly upside down with the door closed but not latched, place your thumb against each hinge location at the bottom, and press each one to remove door. The door will not be used in this application.
- Two special drive mounting slides (DWH-20652-00) have been supplied in the fan assembly kit. Each slide has a slot at one end. Break off the small end piece, trim off any burrs, file, cut or sand flush. This will allow the completed assembly without the fan door to sit behind the cover plates below the door opening. **DO NOT BREAK THESE END PIECES OFF IF YOU ARE GOING TO INSTALL THIS ASSEMBLY IN THE FRONT DOOR OPENING AREA.**
- Attach the slides to the metal brackets that are installed on the hard drive with the hardware included. Orient the slides so that the ends that were broken off are at the rear of the hard drive (closest to SCSI connector).
- Mount the fan assembly to the slides using the two metric Philips, flat head screws. The fan assembly should be flush against the metal drive mounting brackets at the front of the hard drive.
- Slide fan and drive assembly into an open drive slot, pushing it in as far as it will go. The fan assembly should sit entirely behind the cover plate, with the fan assembly door removed.
- Connect the SCSI cable to the disk drive. Check to see that the SCSI address jumpers have been properly set for your particular system configuration.
- Plug one DC power connector from the fan assembly into the power connector on the disk drive, and the other DC power connector into the power supply source.
- Reinstall AM-990 cover plate.

To mount in the front door opening:

- Remove the drive lock brackets by disassembling all panels before you can install or replace a drive.
- Two special drive mounting slides (DWH-20652-00) have been supplied in the fan assembly kit. Each slide has a slot at one end. DO NOT alter these slides, they can be used as is for this application.
- Attach the slides to the metal brackets that are installed on the hard drive with the hardware included. Orient the slides so that the end of the slides with the notch are nearest the back of the drive (closest to SCSI connector).
- Mount the fan assembly to the slides using the two metric Philips, flat head screws. The fan assembly should be flush against the metal drive mounting brackets at the front of the hard drive.
- Slide fan and drive assembly into an open drive slot, pushing it in as far as it will go.
- Connect the SCSI and DC power cables to the disk drive. Check to see that the SCSI address jumpers have been properly set for your particular system configuration.
- Plug the DC power cable from the fan assembly into the power supply source.
- Install drive locks and cover panels as required.

To mount above the front door opening:

There are two drive mounting slots above the front door opening. The very top slot is not usable, but the slot just above the door opening can be used to mount the drive and fan mounting assembly. You can use either procedure set forth above to mount the assembly in this position, depending upon whether you want to mount the assembly behind the filler panel or in place of the filler panel.

To mount the assembly behind the filler panel, follow the procedure “To mount below the front door opening”.

To mount the assembly in lieu of the filler panel, remove the filler panel just above the door opening, then follow the procedure: “To mount above the front door opening”.