Chapter 5 : " Hot Swap "

This chapter explains how to remove and install the "Hot-Swap" parts without interrupting the data access while the disk array is on.

The "Hot-Swap" parts include :

- Hard Disk Drives
- Cooling Fans

Follow the steps below and refer to the diagrams to remove and install the "Hot-Swap" parts.

Removing / Installing Hard Disk drives

a. Unlock the HDD tray

(When a HDD error occurs, the HDD LED indicator lights up "RED")

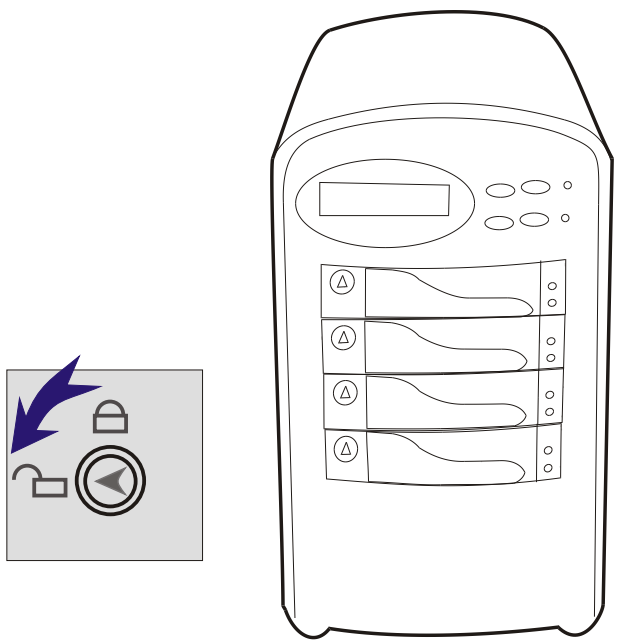

Figure : Swap HDD (Unlock)

b. Gently pull-out the HDD tray

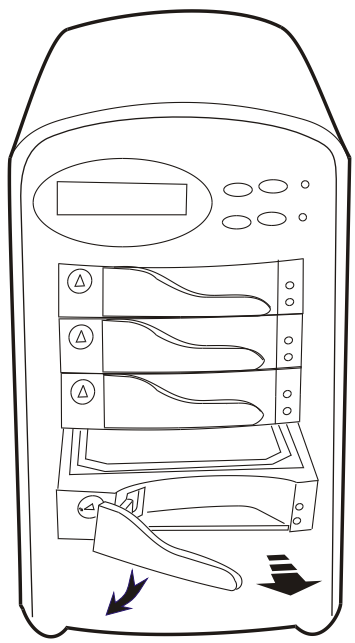

Figure : Swap HDD (Pull-out)

c. Unscrew and unplug the cables

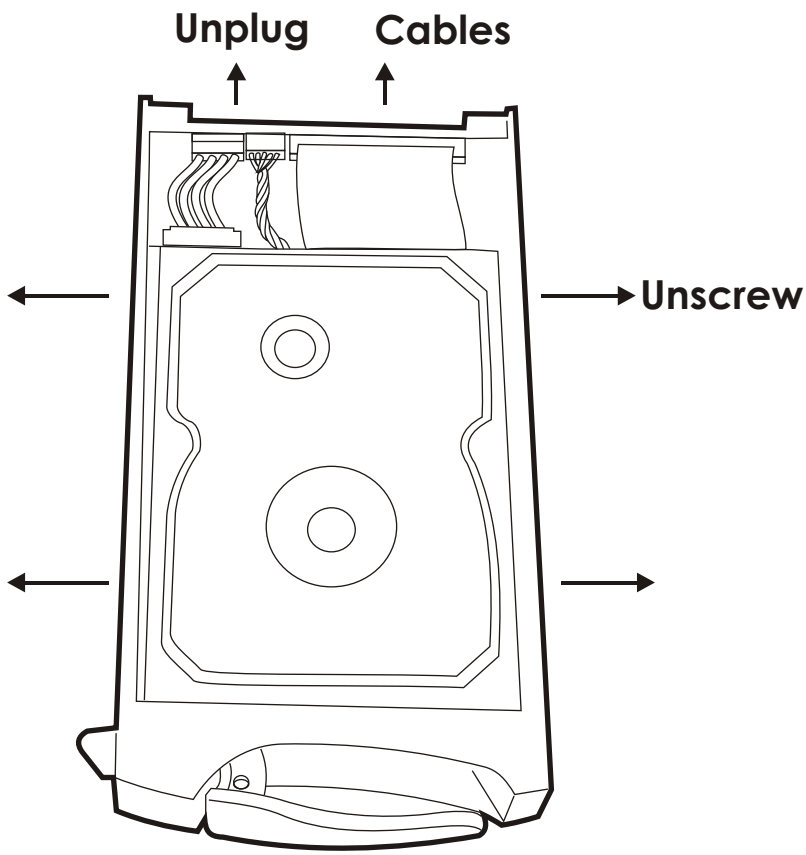

Figure : Swap HDD (Unplug cables)

d. Replace with a new Hard Disk Drive

It must be same capacity or greater than the faulty drive, if you replace with a Hard disk Drive of insufficient capacity, the Disk Array's built-in buzzer will sound and the intelligent Auto-Rebuild function will not be started.

* For best performance, we recommend you swap with an identical Hard Disk Drive.

e. Gently Slide-in the HDD tray and lock up to start the Auto-Rebuild

When you have installed the replacement disk drive, screw in all the screws and plug in the cables, you may now gently slide in the HDD tray into the chassis and lock up it.

* Data Auto-Rebuild will be started automatically when you lock up the HDD tray.

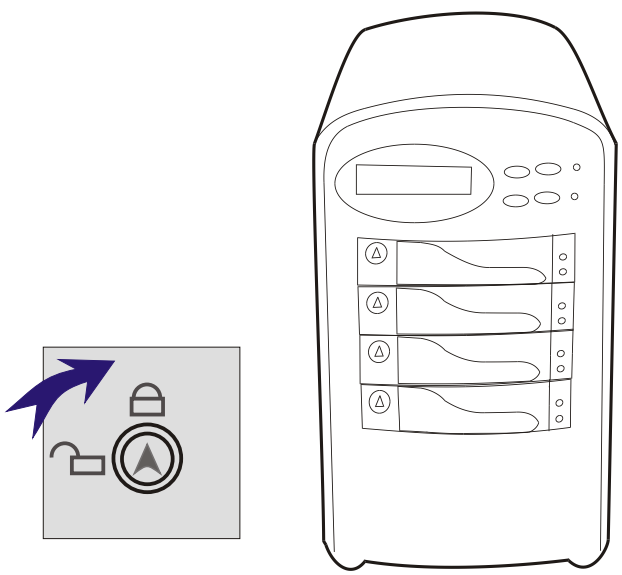

Figure : Swap HDD (Lock Up)

Removing / Installing Cooling Fans

- Unscrew the Fan door and open the door.

! Caution : Be careful , the high speed rotating fans may harm you. Don't touch the rotating Fans, If necessary, Unplug the Fan power connector first.

Unscrew Here !

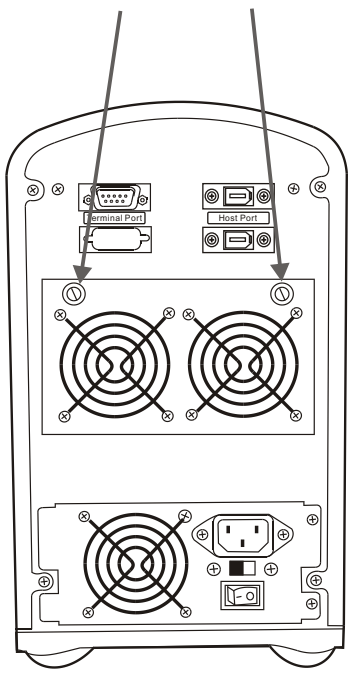

Figure : Swap cooling Fan (Unscrew)

- Unplug the Fan connector
- Unscrew the faulty cooling fan and replace with a good one

  ☆**Important !** The cooling fan's air flow must point to the fan door, please refer to the label on the cooling fan.

- Plug in the fan connector, close the fan door and screw it in

  ! Caution : The cooling fan will rotate immediately when you plug in the fan power connector.

☆ <u>The Cooling Fan will only fit in one orientation.</u>

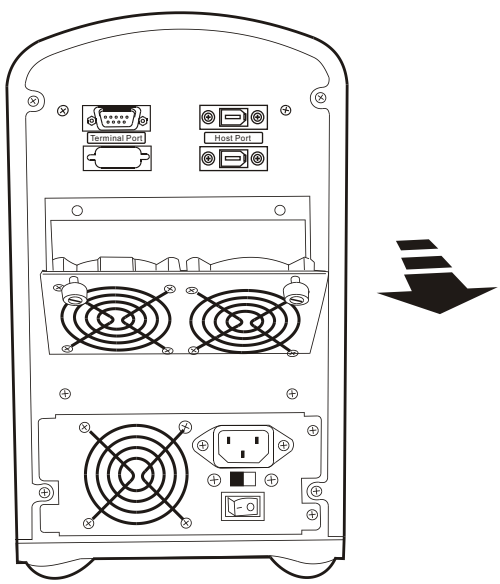

Figure : Swap Cooling Fan (swap with a new Fan)

Technical Specifications

Microprocessor	Intel i960RM RISC processor
Cache Memory	64MB* Maximum 512MB
DRAM Slots	One
Module Type	144 Pin DIMM
DRAM Type	SDRAM
DRAM Speed	PC100/133
Parity	Non-Parity
Read Cache	Read-Ahead
Write Cache	Write Back*
Stripe Size	Variable (8 ~ 128KB)
Firmware	Flash EEPROM ,256K x 8
Hardware XOR Accelerate	Build-In
IEEE 1394 I/O Processor	TI TSB43AB22
Serial Port	1x RS232 (Asynchronous) Port
Ba ud Rate	115,200 (Bits Per Second)
Da ta Bits	8
Sto p Bit	1
Pari ty	None
RAID Levels	0 , 1 , 0+1, 3 or 5
Data Transfer Rate	Up to 400Mbits
Interface : Host Channel	1* IEEE 1394A Firewire
Disk Channels	4* EIDE ATA-100

Drives	Hot Swap, User Replaceable Up to Four 3.5" drives (1" height)
Maximum Fault Tolerant Capacity	>480 GB
Drive MTBF	>1,000,000 hrs
Host Requirement	Host Independent
Operating Systems	O/S Independent and Transparent
Data Rebuild	Automatic Data Regeneration
LCD Display Panel	2 x 16 Characters
Cooling Fans	6 cm Ball Bearing Fan 2 Fans
Power Supply Capacity	200W
AC Input Voltage	115 / 230V (+/10%) , 60/50 Hz
Environmental	
Relative Humidity	10% to 85% Non-condensing
Temperature Operating :	5℃～ 40℃
Storage :	-25℃～ 60℃
Safety testing	Under apply UL, CE and FCC Class B
Dimensions	165mm(W) * 295mm(D) * 280mm(H)
Weight	7 kgs (W/O Disk Drive)

" * " Default Settings

*** Various trademarks belong to their respective owners.