



RM21400 Chassis

Installation Reference Guide

Version 0.9

Oct. 2002

Specification

Model Name.	RM21400
Standard	EIA-RS310D
M/B Type	ATX / Extended ATX
PSU Type	300W~435W PSU
Drive Bay	HDD: 6
5 1/4" External	Slim CD-ROM: 1
3 1/2" External	Slim FDD: 1
3 1/2" Internal	Exposed 5.25: 1
Indicators	LEDs for Power ON/OFF, LAN/ HDD activity, and Fan failure
Switch	Power ON/OFF, Alarm Reset
Riser Card	Optional 32bit or 64bit PCI
Slot Opening	3
Cooling Subsystem	4 x 8cm fans in middle Optional 2 x 40mm fans in rear Optional CPU cooler
Net Weight	12Kg (chassis only)
Construction	SGCC
Dimension	(DxWXH) 610mm x 430mmx 88.1mm 24"x 16.9"x 3.47"

Features

Easy Installation & Maintenance

- Screw-less installation for slim CD-ROM and slim FDD
- 6 x 1" front access Ultra 160 Hot-Swap HDD trays
- Optional 32-bit active PCI and passive 64-bit PCI riser card
- Compliance with Dual Intel Xeon or Dual AMD MP Server boards

Validated Thermal Solution

- Optional 4cm fan on rear panel for pulling out heated air efficiently.

System Monitoring

- Buzzer alarm for Fan failure and overheat warning
- Support Alarm reset

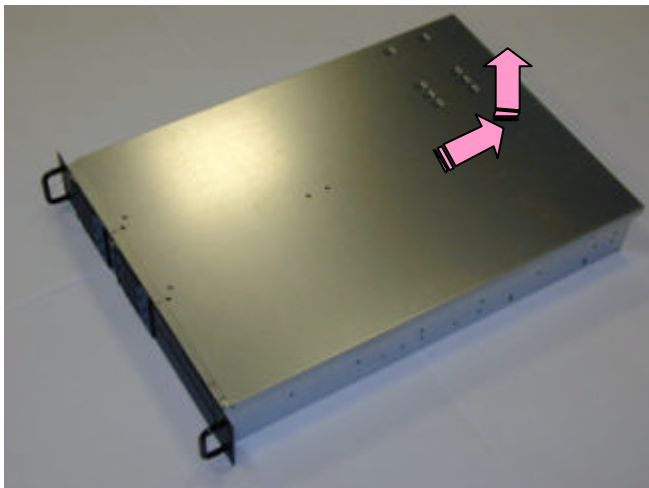
Application Strength

- Designed for high density front end server
- Ideal for NAS and RAID application and also for general purpose server

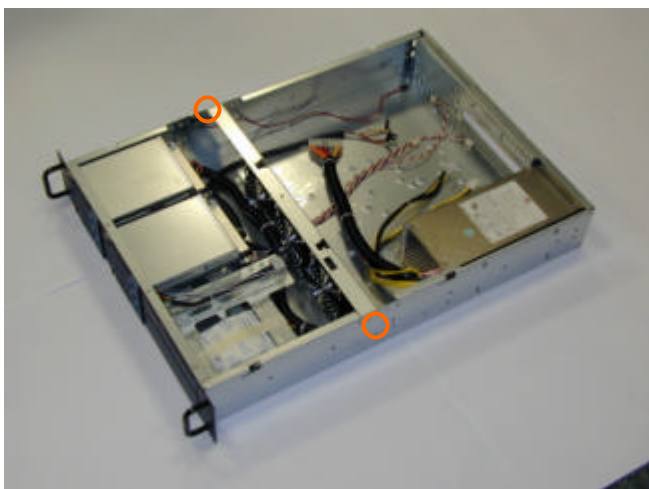
Installation Guideline



Step 1. Remove the screws



Step 2. Open top cover



Step 3. Remove the screws of fan bracket



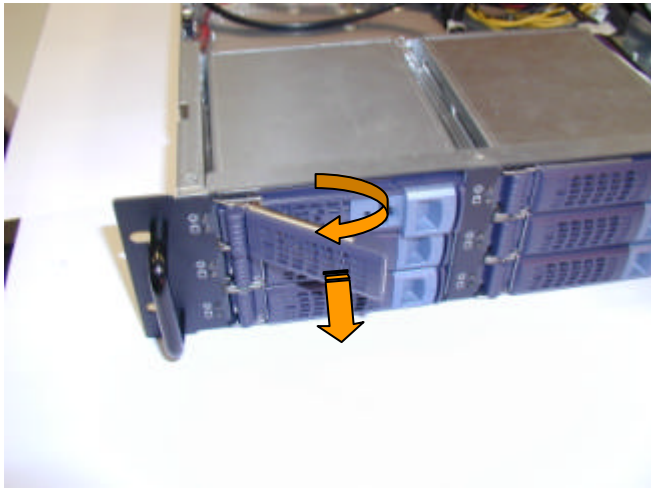
Step 4. Remove the fan bracket



Step 5. Front view of HDD tray



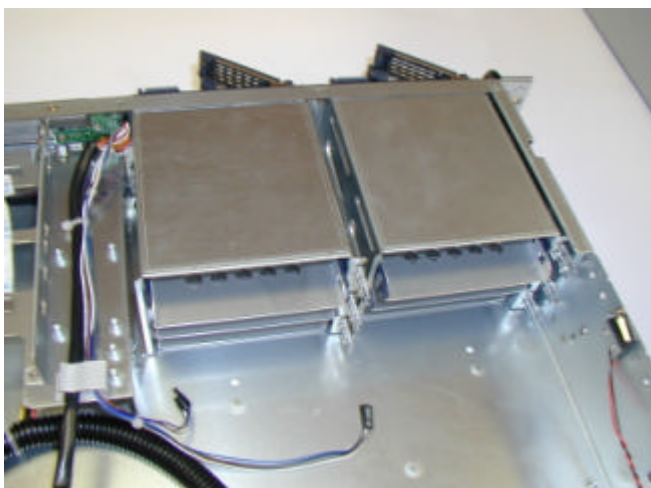
Step 6. Open the cover of HDD tray



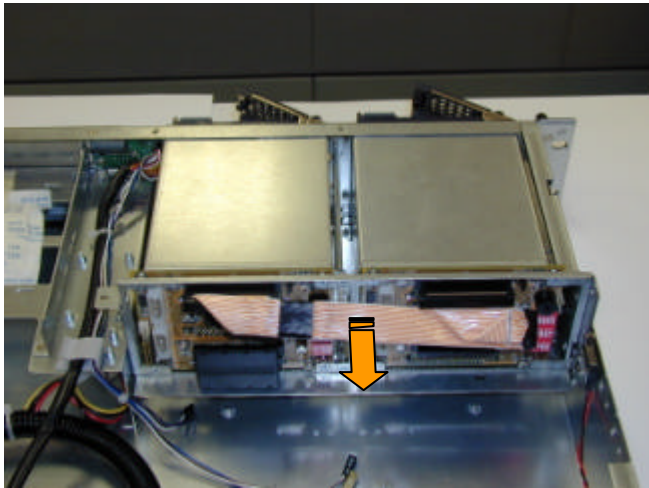
Step 7. Open the cover of HDD tray



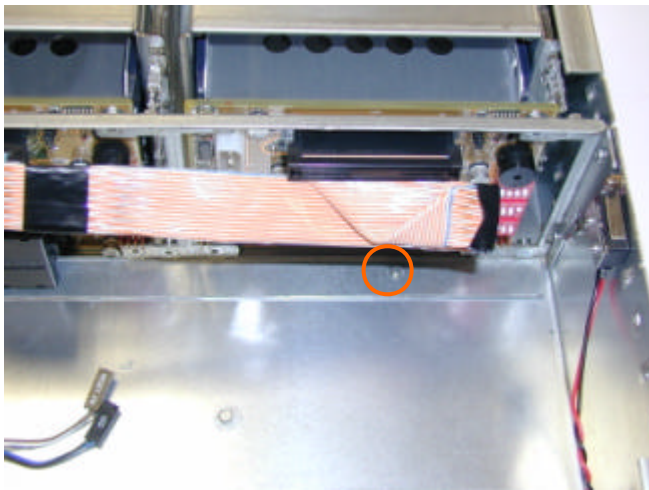
Step 8. Open all the covers of HDD trays slightly



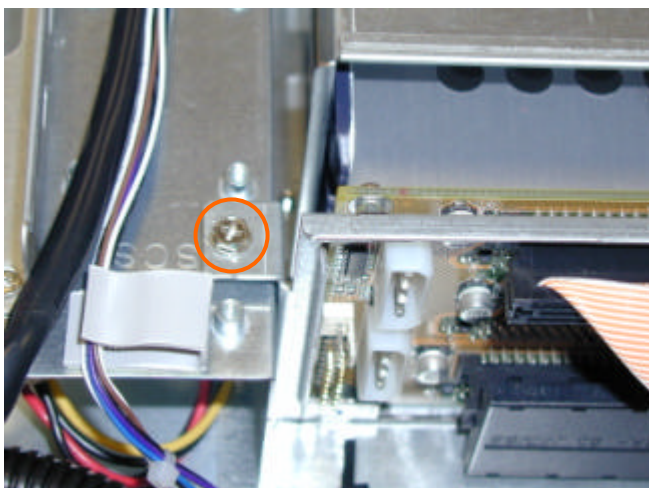
Step 9. Rear view of HDD trays



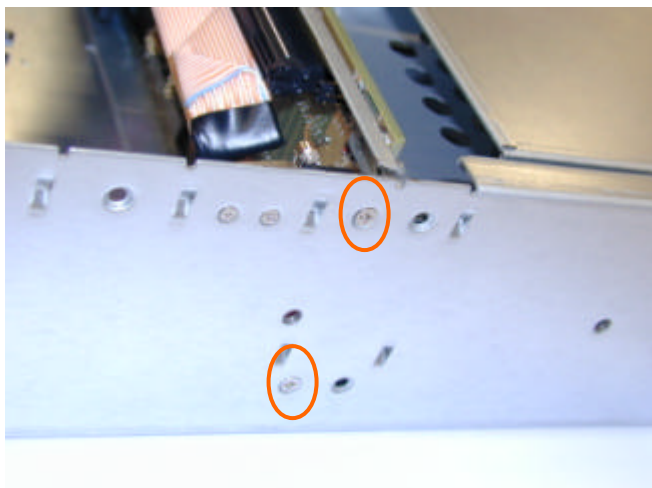
Step 10. Install the SCSI backplane



Step 11. Check whether the SCSI backplane is installed properly



Step 12. Fix the SCSI backplane by the screw



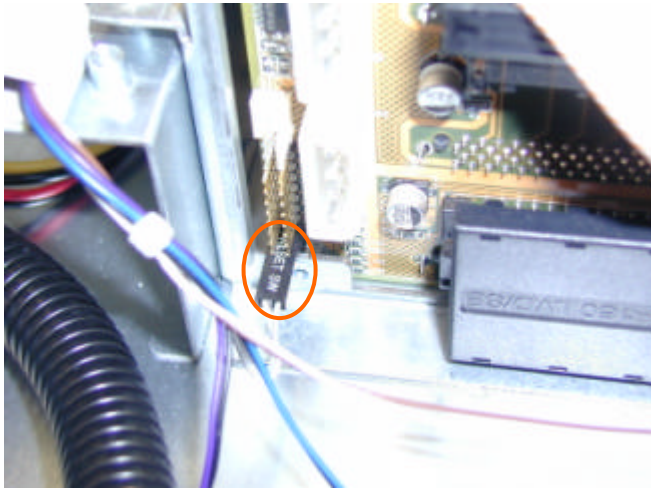
Step 13. Fix the SCSI backplane by the screws



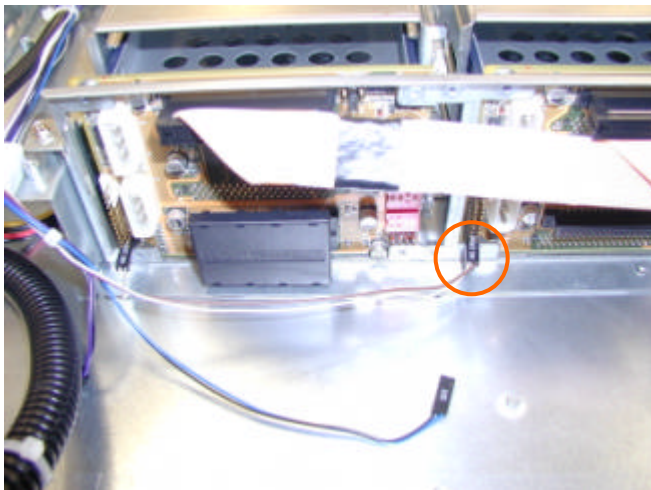
Step 14. Push back all the HDD trays

Pin 1	Device1 Power LED -	Pin 2	Device1 Power LED +
Pin 3	Device1 Access LED +	Pin 4	Device1 Access LED -
Pin 5	Device2 Power LED -	Pin 6	Device2 Power LED +
Pin 7	Device2 Access LED +	Pin 8	Device2 Access LED -
Pin 9	Device3 Power LED -	Pin 10	Device3 Power LED +
Pin 11	Device3 Access LED +	Pin 12	Device3 Access LED -
Pin 13	Fail LED -	Pin 14	Fail LED +
Pin 15	NA	Pin 16	NA
Pin 17	Reset -	Pin 18	Reset +

Step 15. Check the pin numbers of “Reset SW” connectors



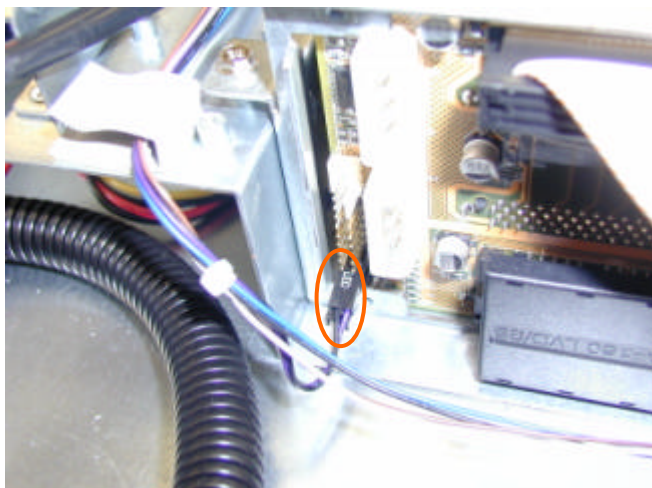
Step 16. Plug “Reset SW” connector into pin 17 and pin 18



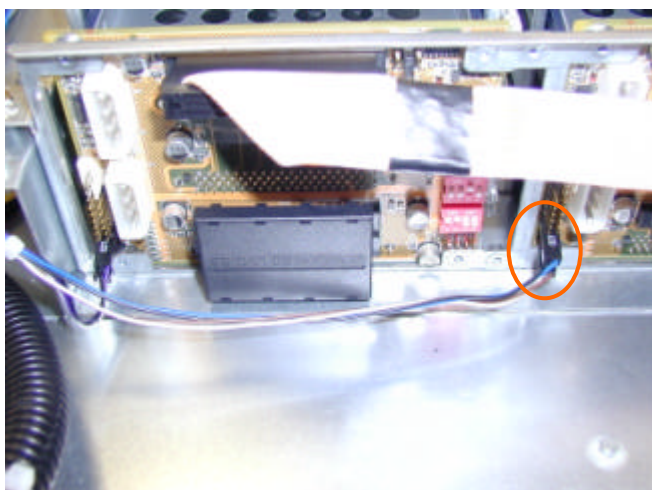
Step 17. Plug another “Reset SW” connector

Pin 1	Device1 Power LED -	Pin 2	Device1 Power LED +
Pin 3	Device1 Access LED +	Pin 4	Device1 Access LED -
Pin 5	Device2 Power LED -	Pin 6	Device2 Power LED +
Pin 7	Device2 Access LED +	Pin 8	Device2 Access LED -
Pin 9	Device3 Power LED -	Pin 10	Device3 Power LED +
Pin 11	Device3 Access LED +	Pin 12	Device3 Access LED -
Pin 13	Fail LED -	Pin 14	Fail LED +
Pin 15	NA	Pin 16	NA
Pin 17	Reset -	Pin 18	Reset +

Step 18. Check the pin numbers of “LED” connectors



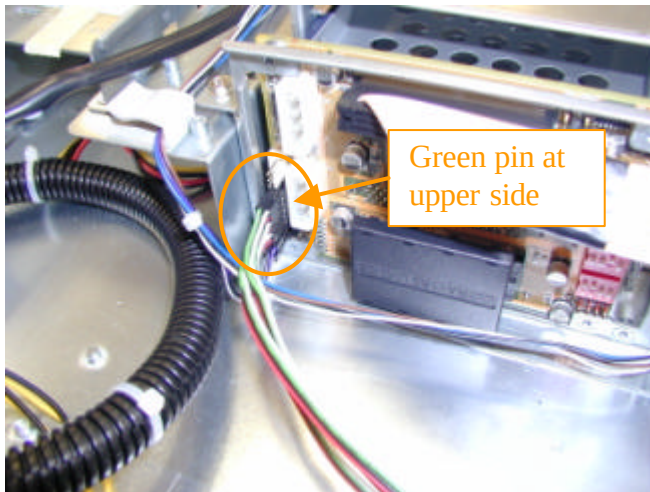
Step 19. Plug “LED” connector into pin 13 and pin 14



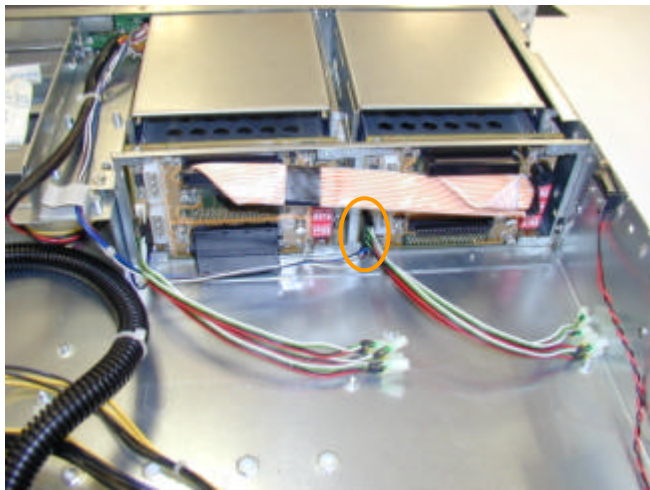
Step 20. Plug another “LED” connector

Pin 1	Device1 Power LED -	Pin 2	Device1 Power LED +
Pin 3	Device1 Access LED +	Pin 4	Device1 Access LED -
Pin 5	Device2 Power LED -	Pin 6	Device2 Power LED +
Pin 7	Device2 Access LED +	Pin 8	Device2 Access LED -
Pin 9	Device3 Power LED -	Pin 10	Device3 Power LED +
Pin 11	Device3 Access LED +	Pin 12	Device3 Access LED -
Pin 13	Fail LED -	Pin 14	Fail LED +
Pin 15	NA	Pin 16	NA
Pin 17	Reset -	Pin 18	Reset +

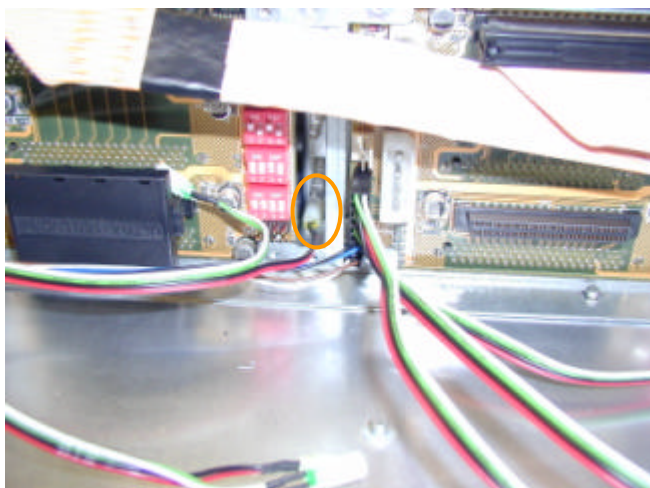
Step 21. Check the pin numbers of HDD LED connectors



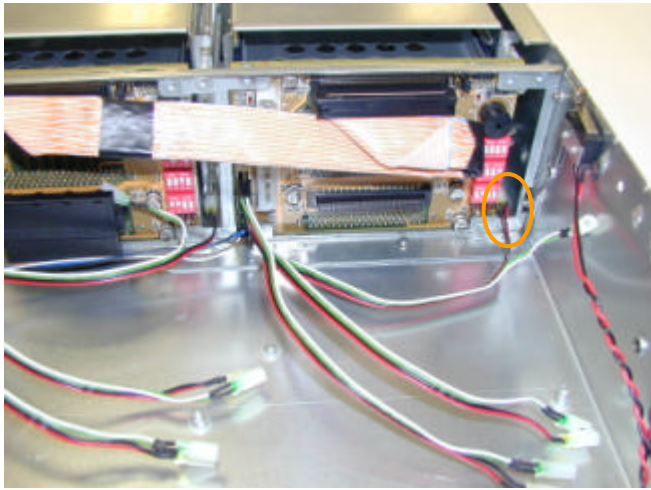
Step 22. Plug HDD LED connector properly



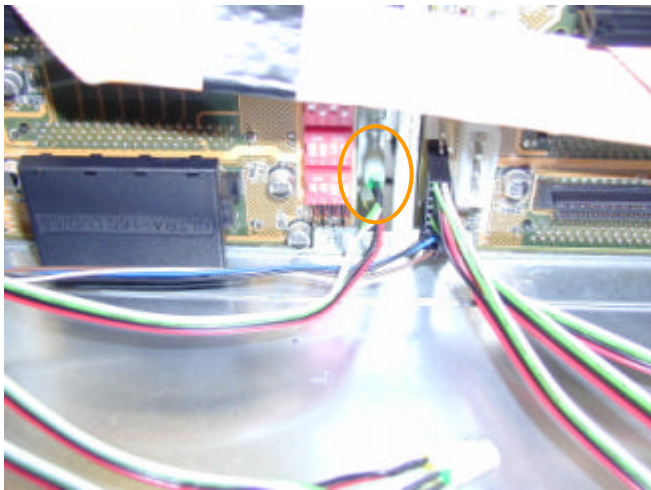
Step 23. Plug another HDD LED connector properly



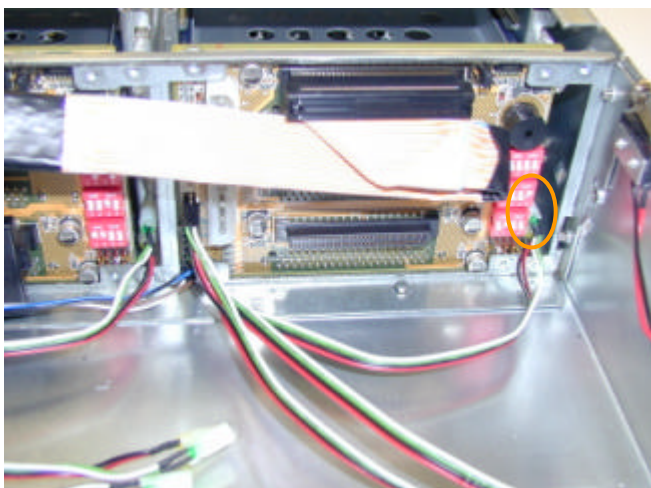
Step 24. Plug the LED with red wire properly



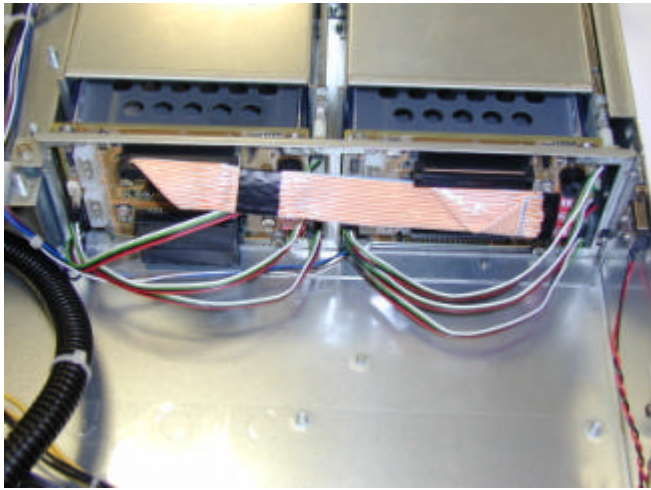
Step 25. Plug the LED with red wire properly



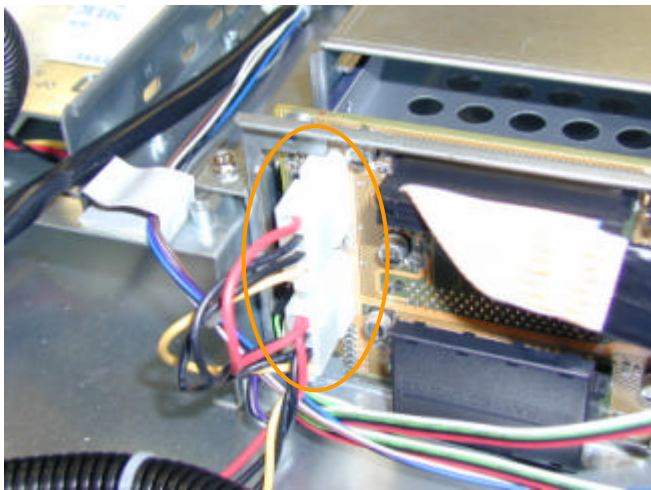
Step 26. Plug the LED with green wire properly



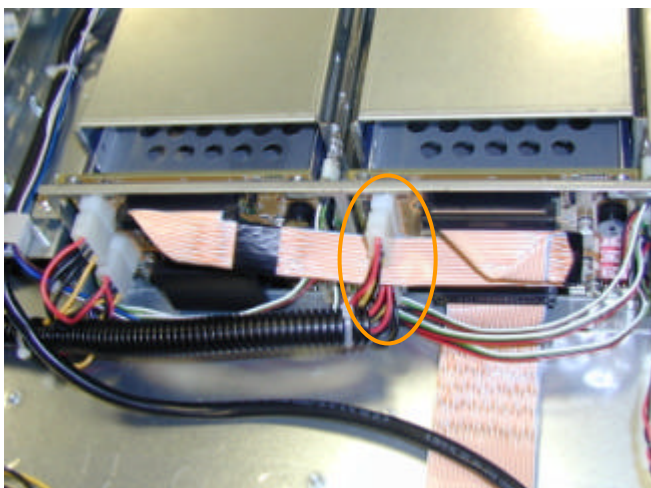
Step 27. Plug the LED with green wire properly



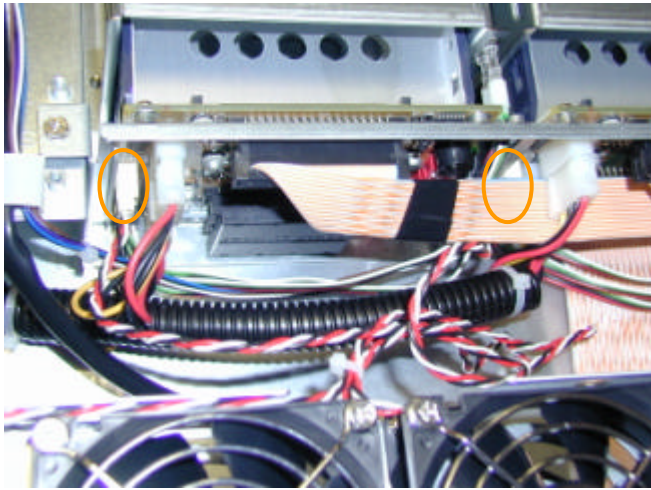
Step 28. Complete the installation of LEDs



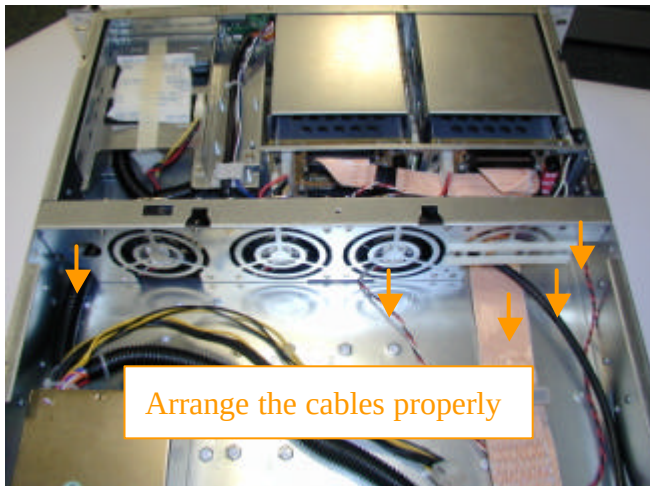
Step 29. Plug the HDD power connectors



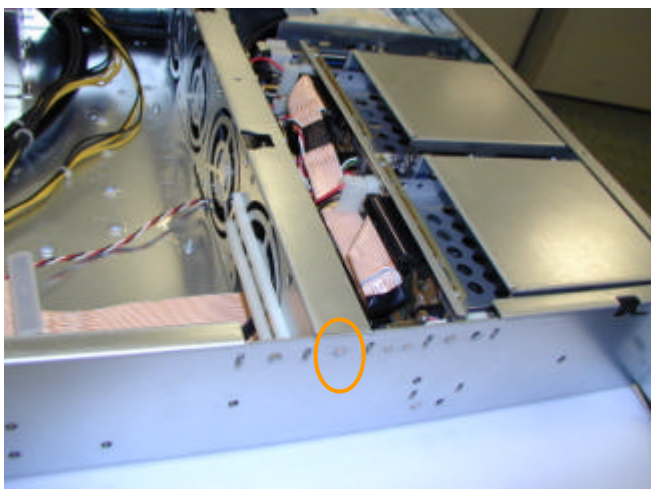
Step 30. Plug other HDD power connectors



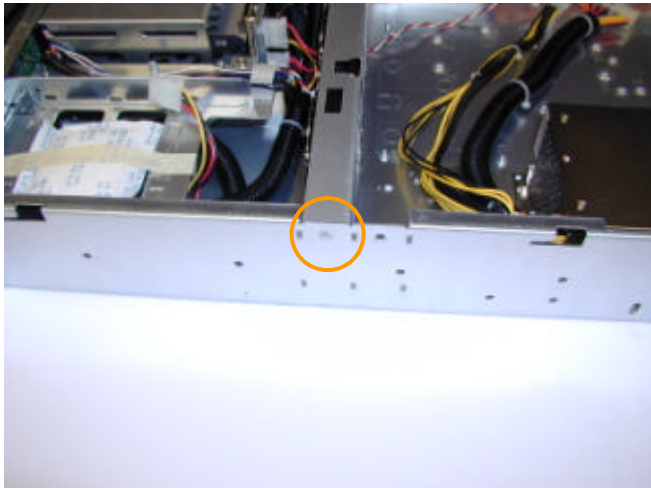
Step 31. Plug two of the fan power connectors on fan bracket onto SCSI backplane



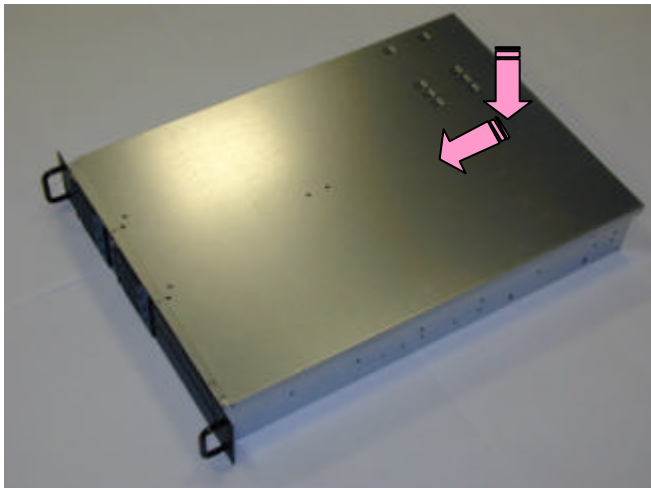
Step 32. Install the fan bracket and arrange the cables properly



Step 33. Screw back the fan bracket



Step 34. Screw back the fan bracket



Step 35. Put back the top cover



Step 36. Screw back the screws and complete the installation