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| NEI | Work Instruction | | Page 1 of 15 |
| Title: Unit Disassembly for WEEE | | | |
| Document Number / Disk File: 597-786-1115-00 | By: J. Healy | Current Rev: 0A | Date: 09/03/2010 |
| Assemblies Covered: S-1600R2 | | | |

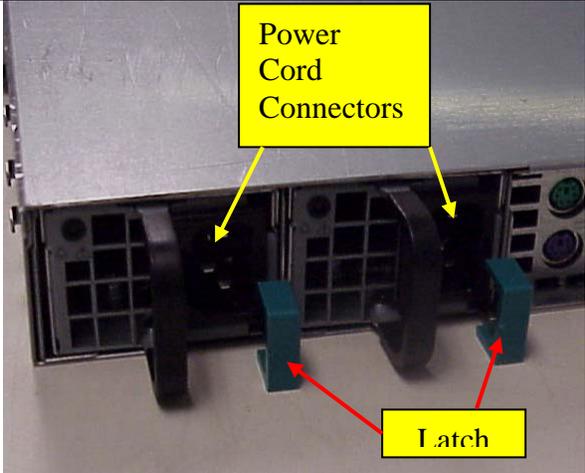
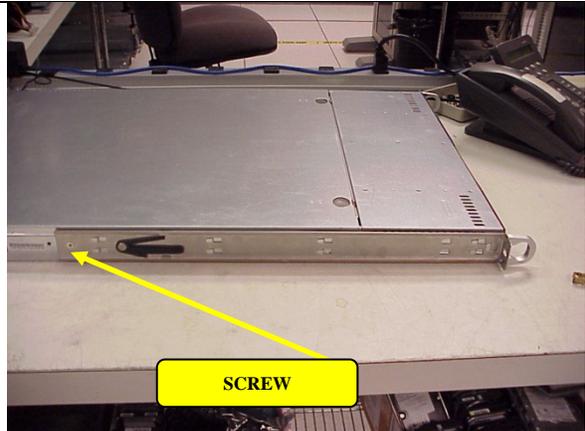


| Revision | Date | ECO # | Revised By | Description of Changes |
|-----------------|-------------|--------------|-------------------|--|
| 01 | 08/03/10 | | J.Healy | Original document for disassembling S-1600R2 units for compliance with WEEE directive. |
| 0A | 9/3/10 | | J.Healy | Added comments from review |
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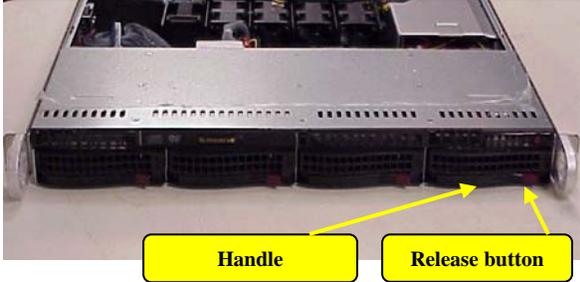
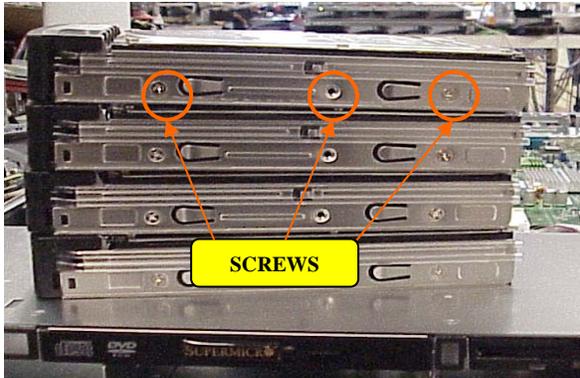
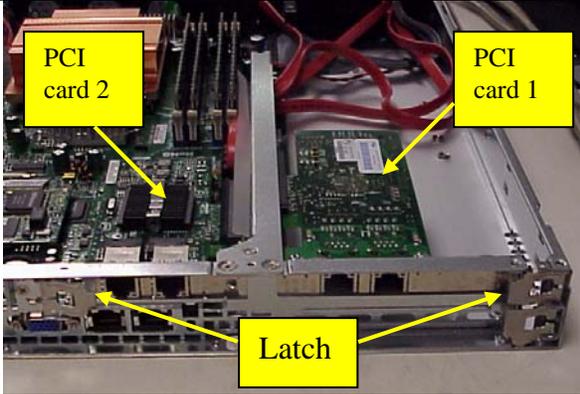
Tools Required:

- #1 Phillips Screw Driver
- #2 Phillips Screw Driver

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| 1. | <p>Removal of the Power Supplies does not require any tools</p> <ol style="list-style-type: none"> Make sure the AC Power cords are not connected to the Unit. Remove Power supplies by pressing the green latch on each power supply and pulling the handle. Discard the power supplies in appropriate recycle bin. |  |
| 2. | <p>Removal of the top access cover requires #2 screwdriver.</p> <ol style="list-style-type: none"> Remove one screw (if present) on left side. Press the two release buttons on the chassis cover and slide it towards the rear about an inch. Remove access cover by lifting it up. Discard sheet metal cover and screw in appropriate recycle bin. |  |
| 3. | <p>Removal of the rails (if present) requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> Remove the screws on both sides and slide the rails towards the rear of the unit to remove rails. Discard the metal rails and screws in the appropriate recycle bin. |  |

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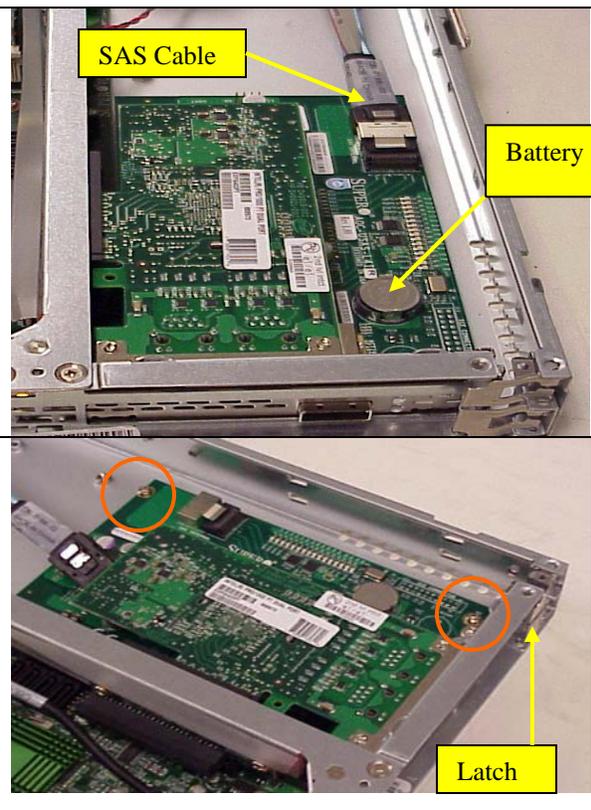
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| 4. | <p>Removal of the Disk Drives with carrier does not require any tools.</p> <ol style="list-style-type: none"> Remove the disk drives by pressing the red release button on each drive. Pull the handle to the left and pull the drive out of the drive bay. Repeat for all 4 disk drives. |  |
| 5. | <p>Removal of the HDD carrier requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> Remove the 6 screws (3 on each side) on the drive carrier and separate the drive from the carrier. Discard the Drives, drive carriers, and screws in the appropriate recycle bin. |  |
| 6. | <p>Removal of the PCI cards (if present) does not require any tools.</p> <ol style="list-style-type: none"> Unlock the Latch on both cards. Remove the PCI card by pushing the card away from the riser card. Repeat for 2nd PCI card if installed. Discard the PCI cards in the appropriate recycle bin. |  |

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7. Removal of the UIO card (if present) requires a # 2 Phillips screwdriver.

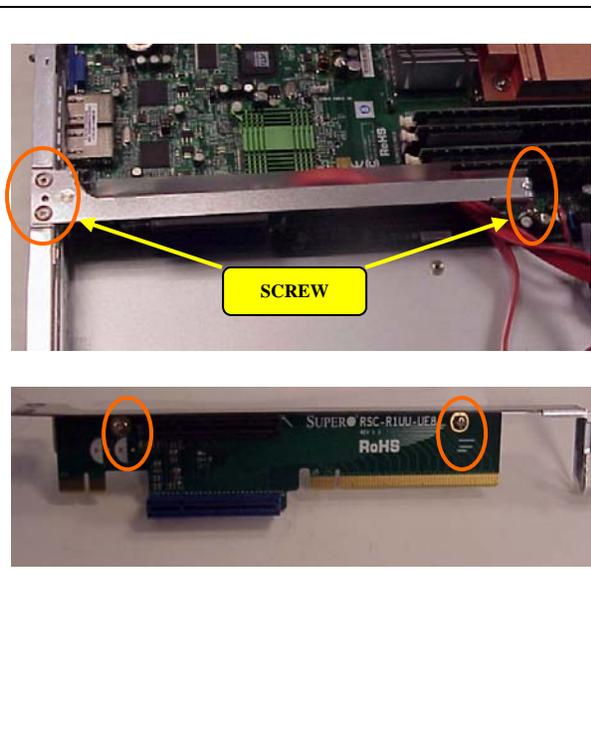
- Remove the SAS cable on both ends.
- Remove the coin style battery.
- Remove two screws that hold the UIO card.
- Unlock the Latch on the card.
- Remove the UIO card by pushing the card away from the riser card.
- Discard the UIO card, screws, SAS cable, and the battery in the appropriate recycle bin.**

***** CAUTION *****
Care should be observed when disposing of the battery to avoid shorting it!

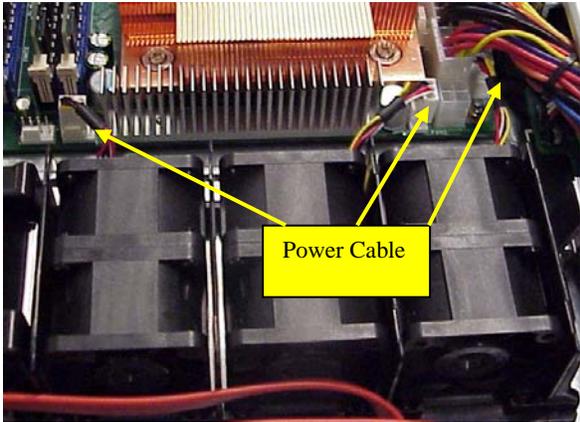


9. Removal of the PCI Riser Bracket and attached card requires a #2 Phillips screwdriver.

- Remove three screws that hold the bracket. Two in the rear and one in the front.
- Remove the PCI Riser bracket and by wiggling and then pulling it out.
- Unscrew the PCB on both sides from the sheet metal bracket.
- Discard the sheet metal bracket, PCI Riser card PCB, and screws in the appropriate recycle bin.**



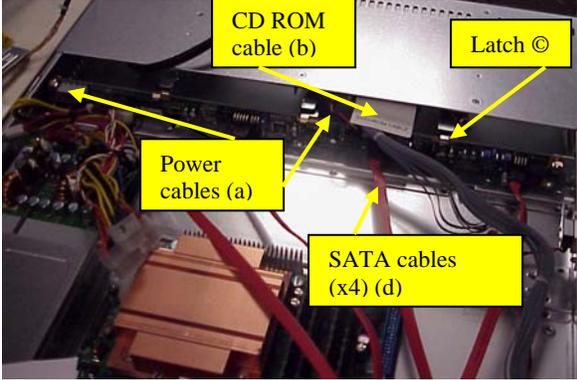
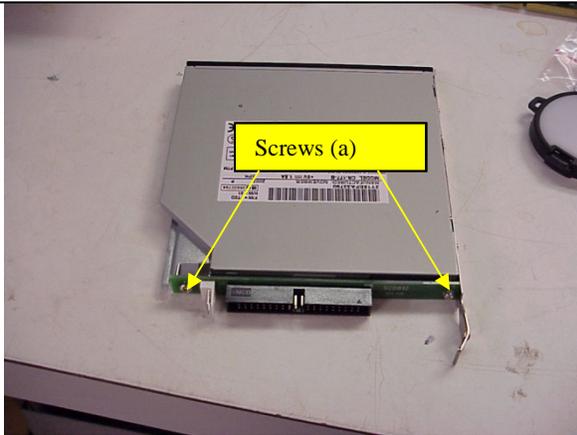
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| 10. | <p>Removal of the fan requires no tools.</p> <ol style="list-style-type: none"> Unplug the three fan Power cables by pulling them out to remove the plug from the connector on the main board. Lift the entire assembly out of the unit. Discard the fan and the fan tray in the appropriate recycle bin. |  |

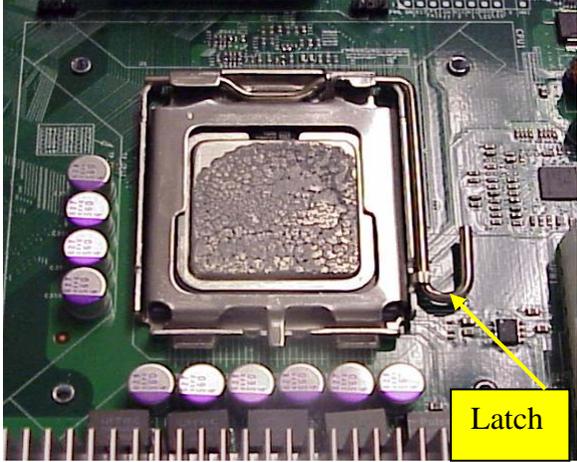
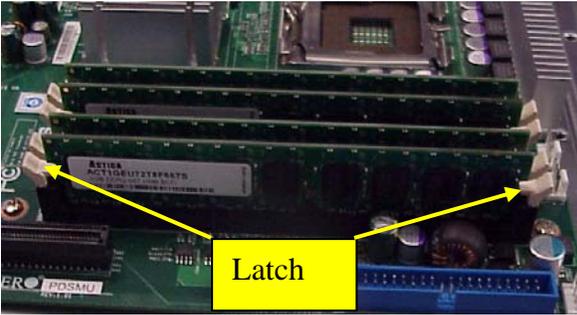
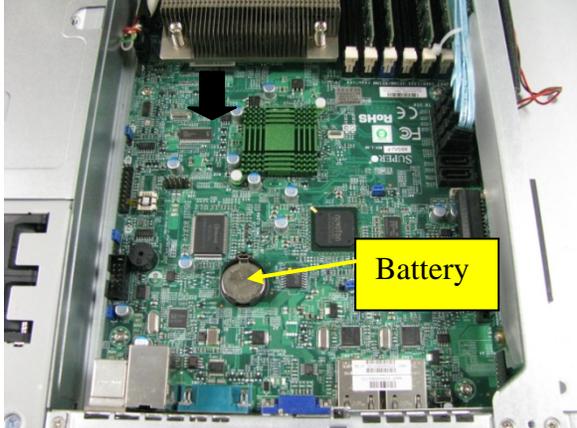
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| 11. | <p>Removal of the plastic holder requires #2 screwdriver.</p> <ol style="list-style-type: none"> Remove one screw that holds the plastic holder from the back of the unit. Discard the Plastic holder and the screw in the appropriate recycle bin. | |
| 12. | <p>Removal of the Power distribution cover does not require any tools.</p> <ol style="list-style-type: none"> Push the tab towards the cover and lift the cover away from the chassis. Discard the Power distribution cover in the appropriate recycle bin. | |
| 13. | <p>Disconnect all connections to the motherboard.</p> <ol style="list-style-type: none"> Disconnect the power cables from the motherboard. Disconnect the CD drive cables connected to the motherboard. Disconnect the SATA cable. Disconnect the LED controller cable. Disconnect the Intrusion alarm cable. | |

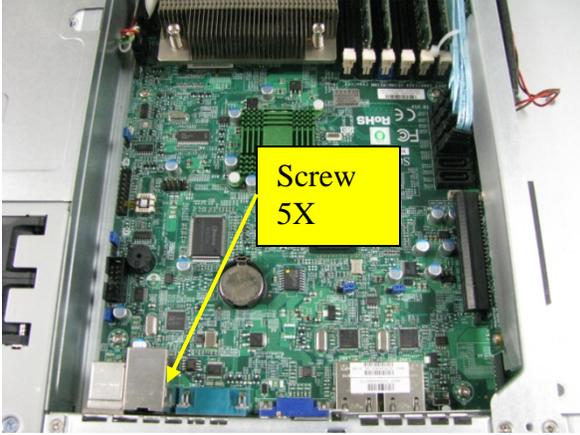
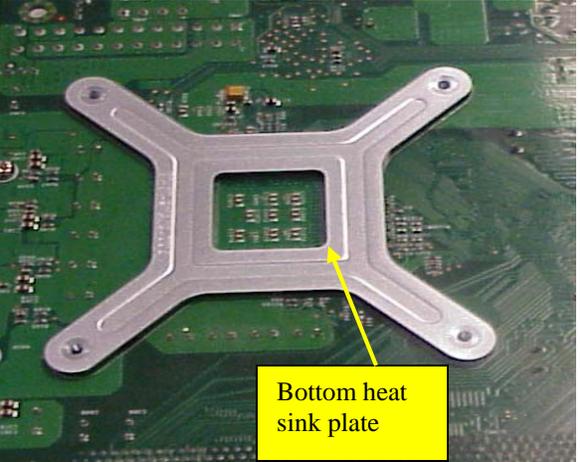
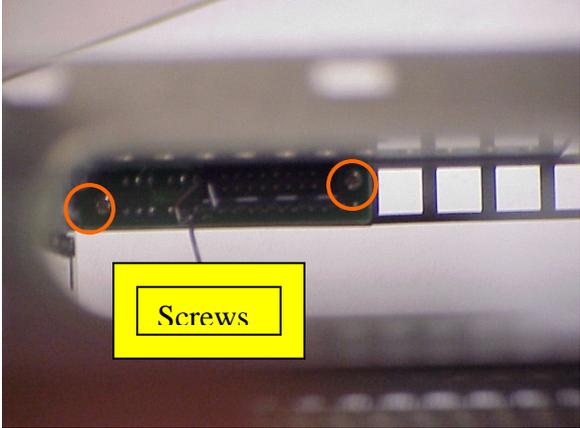
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| 14. | <p>Disconnect all connections to the HDD backplane.</p> <ol style="list-style-type: none"> Disconnect the power cables. Disconnect CD drive cable. Remove the CD drive by pushing the latch inwards and pushing it out. Disconnect SATA cables (4). Remove all disconnected cables from the unit. Discard the cables in the appropriate recycle bin. |  |
| 15. | <p>Removal of the DVD/CD drive PCB board requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> Unscrew the 2 screws on the PCB connected to the FDD. Discard the CD-ROM, screws, and PCB in the appropriate recycle bin. |  |
| 16. | <p>Removal of the Heat Sinks requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> Remove the 4 screws on the heat sink. Pull the Heat Sink upwards to remove it, exposing the CPU. Discard the Heat Sink in the appropriate recycle bin. |  |

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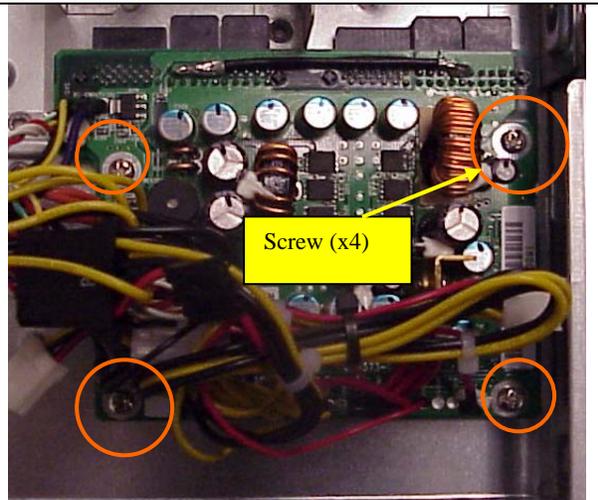
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| 17. | <p>Removal of the CPU's does not require any tool.</p> <ol style="list-style-type: none"> Lift the CPU latch up to unfasten the CPU. Carefully pick up the CPU on both sides and lift it off the board. Discard the CPU in the appropriate recycle bin. |  |
| 18. | <p>Removal of the memory DIMMs from the motherboard does not require any tool.</p> <ol style="list-style-type: none"> Remove each of the memory DIMMs by pushing down and out on the two latches, one on each end of the DIMM connector. Lift memory DIMM straight out to remove. Discard the memory DIMMs in the appropriate recycle bin. |  |
| 19. | <p>Removal of the Lithium Battery does not require any tool.</p> <ol style="list-style-type: none"> Remove the coin style Lithium Battery. Discard the Lithium Battery in the appropriate recycle bin. <p>*** CAUTION *** Care should be observed when disposing of the battery to avoid shorting it!</p> |  |

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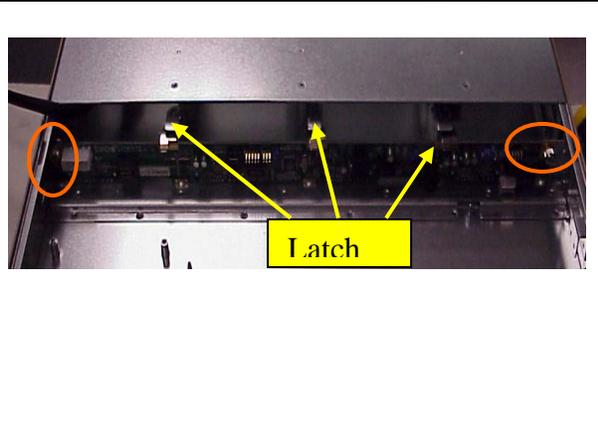
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| 20. | <p>Removal of the motherboard requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> Ensure that all cables and connectors to the motherboard have been removed. Remove the five (5) screws from the motherboard. Remove the motherboard by sliding it towards the front of the unit to disengage it from the rear panel then lift motherboard out. Discard the motherboard and screws in the appropriate recycle bin. |  |
| 21. | <p>Removal of the bottom heat sink plate does not require any tool.</p> <ol style="list-style-type: none"> Remove the bottom heat sink plate by pulling it out from back side of the motherboard. Discard the bottom heat sink plate in the appropriate recycle bin. |  |
| 22. | <p>Removal of the LED controller requires a #1 Phillips screwdriver.</p> <ol style="list-style-type: none"> Remove the two screwdrivers holding the LED controller to the top of the unit. Pull the controller out from the front of the unit. Discard the LED controller and screws in the appropriate recycle bin. |  |

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23. Removal of the Power Supply Backplane requires a #2 Philips screw driver
- Remove the four (4) screws holding the power supply backplane.
 - Pull the backplane and wiring out to remove.
 - Discard the power supply backplane and screws in the appropriate recycle bin.**



24. Removal of the HDD Backplane require #2 screwdriver.
- Remove the two screws holding the HDD backplane.
 - Lift the latch and pull out the HDD backplane.
 - Discard the HDD backplane and screws in the appropriate recycle bin.**

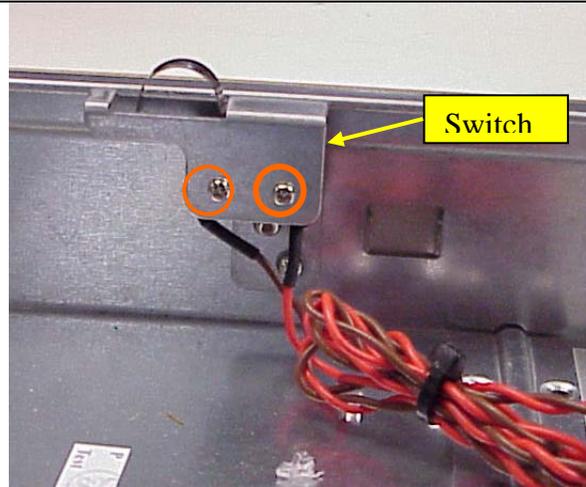


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25. Removal of the intrusion switch require # 1 screwdriver.

- a. Remove the intrusion switch by removing the two screws using #1 screwdriver.

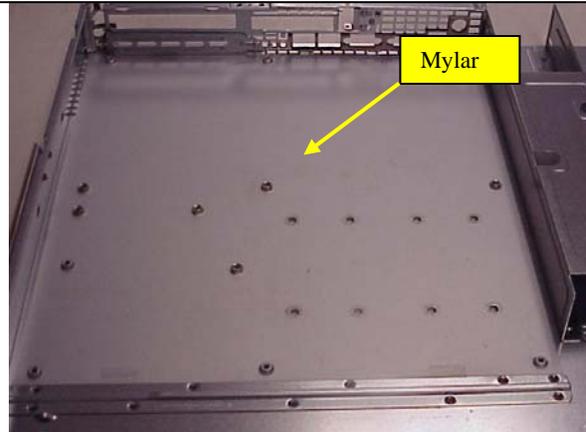
b. Discard the Intrusion switch and screws in the appropriate recycle bin.



26. Removal of the Mylar does not require any tool.

- a. Remove the Mylar by lifting it up away from the chassis.

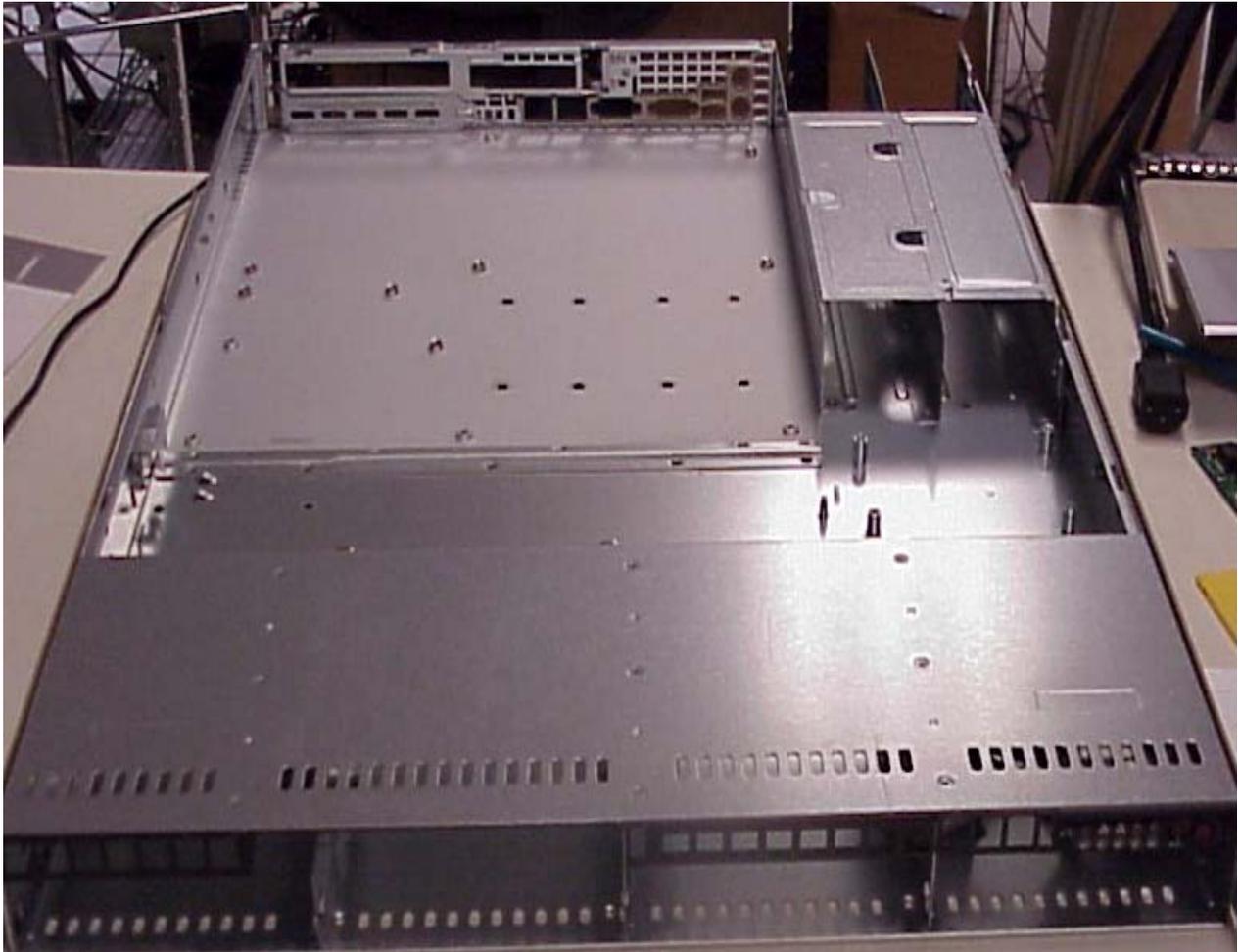
b. Discard the Mylar in the appropriate recycle bin.



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Fully Disassembled Unit

DISCARD FULLY DISASSEMBLED UNIT INTO APPROPRIATE RECYCLE BIN.



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| Recycling/Material Code | Important Information |
|---|--|
| Material /Components, which must be removed and treated separately | |
| Lithium Battery | Battery free of hazardous substances, installed in socket on the motherboard |
| Printed circuit boards | Motherboard, DIMMs, Gigabit card, PCI riser, Power Supply, Fan Control Board & Test Board |
| Disk Drives | Mounted on disk carrier |
| Material /Components, which can disturb certain recycling processes | |
| Copper | Heat sink |
| Material /Components, through which benefits can normally be achieved | |
| Cold Rolled Steel | Fixed cover, access cover, chassis bottom, chassis rear panel, front bezel bracket, fan tray, baffle, test assembly bracket, Heat sink mounting bracket and disk cable cover |
| * ABS | Pushbuttons, 1/3 bezel, 2/3 bezel & serial port cover |
| Cables | Distributed in device |
| Fans | Fan tray |
| Special notes | |
| ** LCD display background lights contain Hg. * Flame retardant of plastics do not contain PBB and PBDE. | |

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Annex A

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|-----------------------------|---|
| Producer: | <company name, other on addressing the producer> |
| Scope of information sheet: | < product category as in Annex IA of WEEE Directive, or type of equipment as in Annex 1B of WEEE Directive, or producer's Product Family, or single products identified by brand and model name > |

| Component or Material | Remarks / Location |
|---|---|
| Battery (internal *) containing Mercury (Hg)/ NiCad/Lithium/ Other | Lithium battery ↓ located on the motherboard |
| Mercury (Hg) in other applications** | NONE |
| Cadmium** | Screws may be cadmium ↓ plated. |
| Gas discharge lamps | NONE |
| Plastic containing brominated flame retardants other than in Printed Circuit Assemblies *** | NONE |
| Liquid Crystal Displays with a surface greater than 100 cm ² | NONE |
| Capacitors with PCB's | NONE |
| Capacitors with substances of concern**** + height > 25 mm, diameter > 25 mm or proportionately similar volume | NONE |
| Asbestos | NONE |
| Refractory ceramic fibres | NONE |
| Radio-active substances | NONE |
| Beryllium Oxide | NONE |
| Other forms of Beryllium | BE-CU in some connector ↓ contacts |
| Gasses - which fall under Regulation (EC) 2037/2000 and all hydrocarbons (HC). | NONE |
| Components with pressurised gas which need special attention (Pressure > 1,5 bar) ***** | NONE |
| Liquids ***** if volume > 10 cl (or equivalence in weight, e.g. for PCB, oil...) | NONE |
| Mechanical components that store mechanical energy (i.e. springs) or equivalent parts which need special attention ***** (diameter > 10 mm and height > 25 mm or proportionally similar volume and expanding) | NONE |

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↓ = Arrow indicates the need for the location of the compartment/ substances within the product. When the location of a substance/ components is requested, it is at part level, e.g. main board, housing etc

* Internal means that batteries can only be removed by opening the product by means of (a) tool(s).

** Substances are considered to be in the product if present above the levels specified in Commission Decision 2005/618/EC related to Directive 2002/95/(EC) (ROHS Directive) or if their use is permitted through exemptions in the Annex of Directive 2002/95(EC)

*** To be coherent with industry current standards and practices on tracking of plastic parts, Directive 2002/96 (EC) Annex II requirement is understood to focus on plastic parts that weight more than 25 g.

**** Substance of concern other than PCB, to be specified/ addressed further in the context of Directive 2002/96 (EC) Annex II national requirements and European developments

***** Needs of equivalent nature as those for maintenance, service manuals and installation for safety purposes.