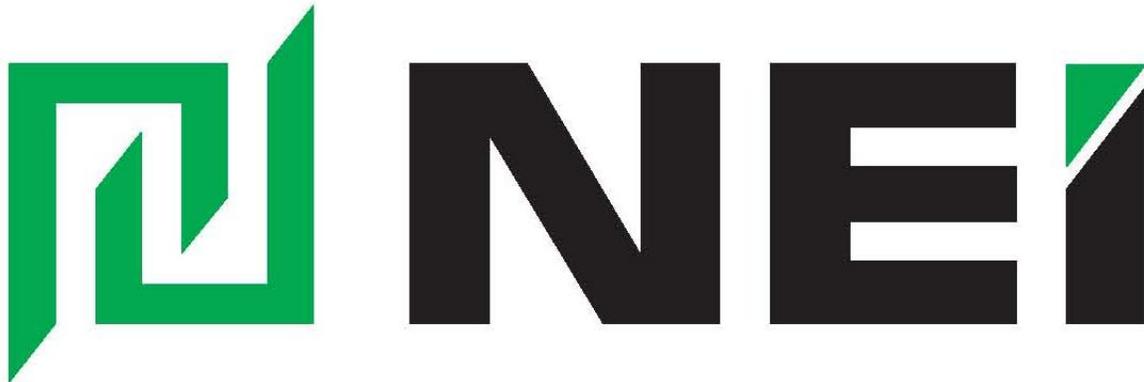


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Revision	Date	ECO #	Revised By	Description of Changes
0A	10/25/10	N3116	Lynn Johnson	Initial Release

**Tools Required:**

- #1 Phillips Screwdriver
- #2 Phillips Screwdriver
- Torx T15 Screwdriver
- Torx T10 Screwdriver
- Torx T9 Screwdriver
- 7/32" Socket Nut Screwdriver
- 10 mm Socket Nut Screwdriver
- 5 mm Socket Nut Screwdriver

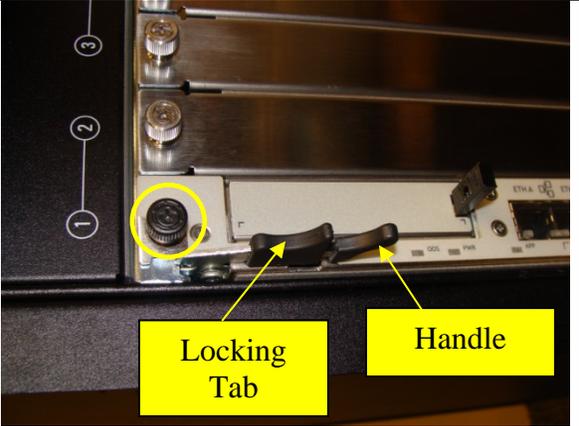
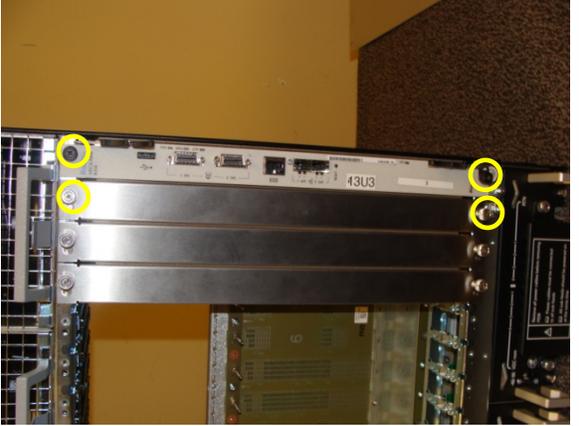
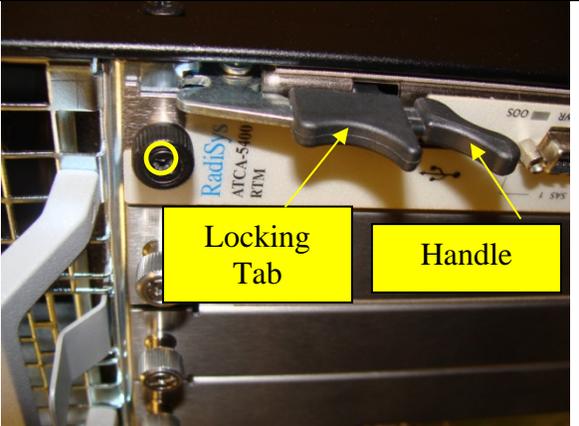
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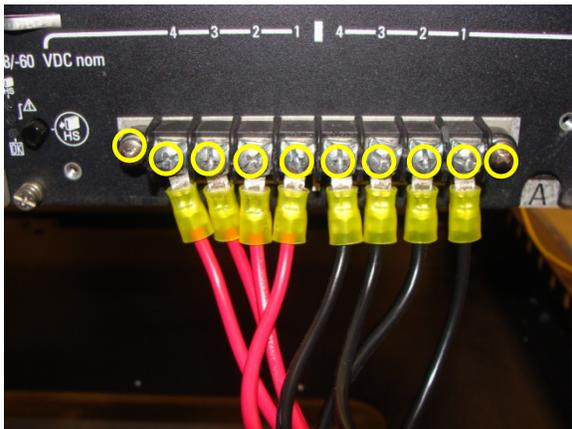
**NOTE : Disconnect any DC Power Cords attached to the power supplies before disassembly of the unit.**

1.	<p>Removal of the Blades or Front Filler Panels (if present) requires a #1 and #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen the two (2) screws securing the blade or filler panel to the chassis.</li> <li>b. For a Blade, squeeze the locking tab towards the handle (on each side of the Blade) and pull the handles away from the chassis to disengage the Blade.</li> <li>c. Pull the Blade straight out of the chassis. Repeat if there are additional Blades installed.</li> <li>d. For the Front Filler Panel, slide the Front Filler Panel straight out of the chassis holding onto the screws. Repeat if there are additional Front Filler Panels installed.</li> <li>e. <b>Refer to the Blade disassembly instructions to see if further breakdown is required. Then discard the Blades and/or Front Filler Panels in the appropriate Recycling Bin.</b></li> </ol>	
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1.		
2.	<p>Removal of the Rear Transition Modules (RTMs) or Rear Filler Panels (if present) requires a #1 and #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen the two (2) screws securing the RTM or Rear Filler Panel to the chassis.</li> <li>b. For an RTM, squeeze the locking tab towards the handle (on each side of the RTM), and pull the handle away from the chassis to disengage the RTM.</li> <li>c. Pull the RTM straight out of the chassis. Repeat if additional RTMs are installed.</li> </ol>	
	<ol style="list-style-type: none"> <li>d. For the Rear Filler Panel, slide it straight out of the back of the chassis. Repeat if a second Rear Filler Panel is installed.</li> <li>e. <b>Refer to RTM disassembly instructions to see if further breakdown is required. Then discard the RTM(s) and Rear Filler Panel(s) in the appropriate Recycling Bin.</b></li> </ol>	

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3.	<p>Removal of the DC PEMs requires a #1 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Shut down any installed blades and RTMs installed in the chassis.</li> <li>b. Make sure that the power feeds you plan to remove are powered off and cannot be switched on while you are working.</li> <li>c. To ensure that the PEMs are not energized, verify that the LEDs on the front of the power supplies are off.</li> </ol>	
	<ol style="list-style-type: none"> <li>d. Loosen the connector fastening screws at both sides of the terminal block cover for PEM A. Repeat for PEM B.</li> <li>e. Remove the terminal block cover for PEM A and PEM B.</li> <li><b>f. Discard the terminal block cover for PEM A and PEM B in the appropriate Recycling Bin.</b></li> </ol>	
	<ol style="list-style-type: none"> <li>g. Remove the two screws mounting the connector for the power feeds on PEM A. Repeat for PEM B.</li> <li>h. Remove the eight screws and washers connecting the power feed wires on PEM A and pull off the power feed wires. Repeat for PEM B.</li> <li><b>i. Discard the screws, washers, and power feed wires in the appropriate Recycling Bin.</b></li> </ol>	

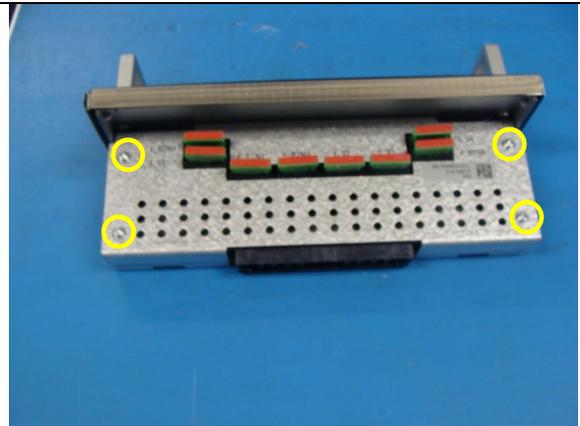
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- j. Loosen the two (2) screws securing PEM A to the chassis. Repeat for PEM B.
- k. Pull PEM A straight out from the chassis. Repeat for PEM B.



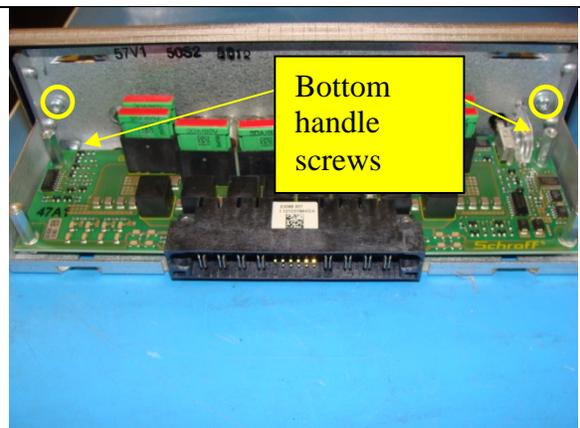
Removal of the top metal cover on PEM A and PEM B requires a T9 Torx Screwdriver.

- l. Loosen and remove the four (4) screws mounting the top metal cover on PEM A. Repeat for PEM B.
- m. Remove the top metal cover on PEM A. Repeat for PEM B.

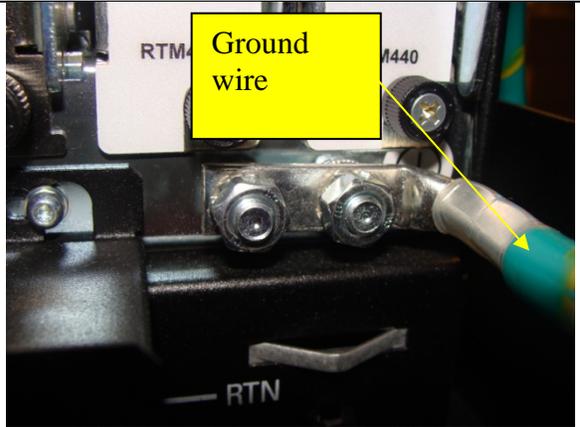


Removal of the handle requires a Torx T15 screwdriver.

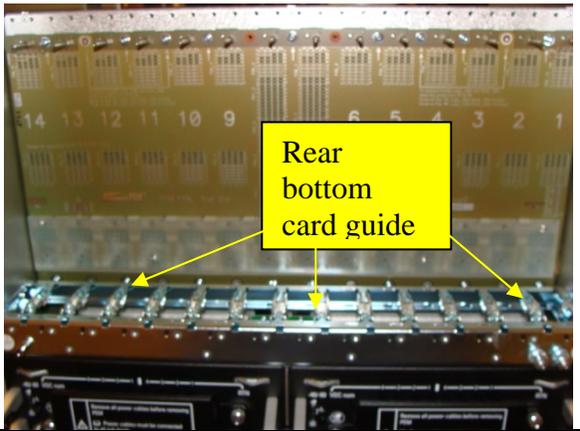
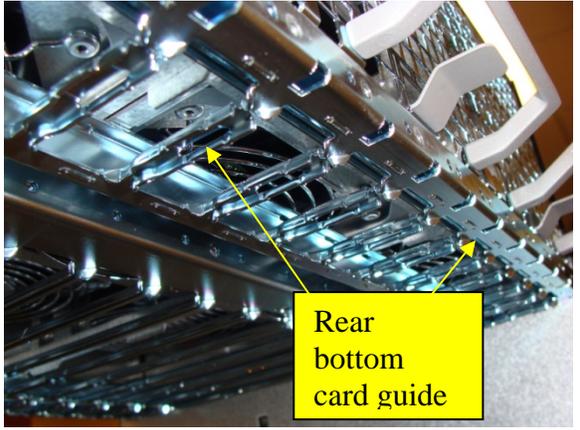
- a. Loosen and remove the two (2) screws and washers securing each of the handles on PEM A. Repeat for PEM B.
- b. Remove the nuts and washers.
- c. **Discard screws, washers, and handles in the appropriate Recycling Bin.**



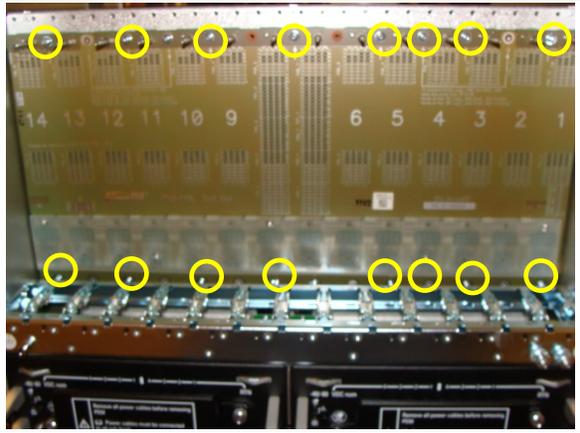
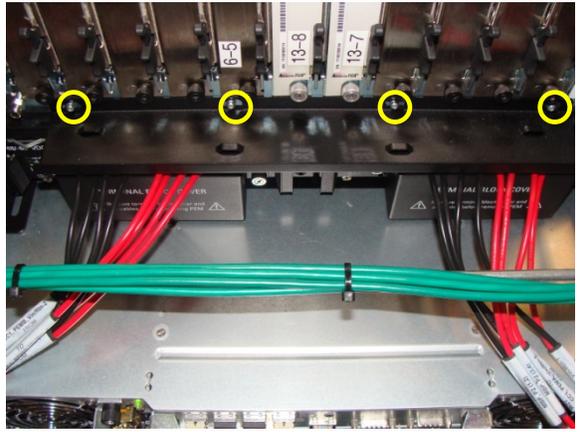
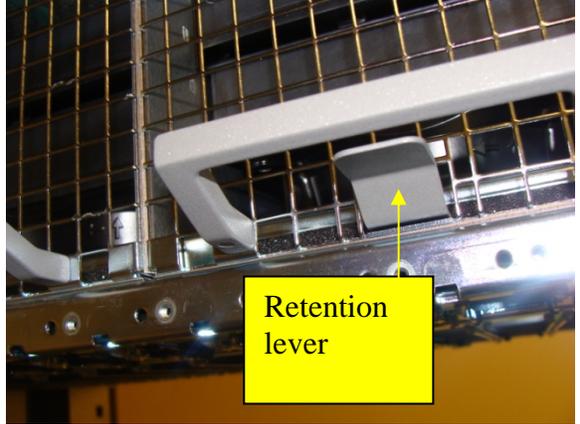
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4.	<p>Removal of the nuts, washers, and ground wires (if present) requires a 10 mm socket screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the two (2) nuts securing the ground wires.</li> <li>b. Remove the nuts and washers.</li> </ol>	
	<ol style="list-style-type: none"> <li>c. Remove the ground wire.</li> <li>d. <b>Discard screws, washers, and ground wire in the appropriate Recycling Bin.</b></li> </ol>	
5.	<p>Removal of the rear bottom card guide requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the two (2) screws on each side of the chassis that mounts the rear bottom card guide.</li> <li>b. Remove the rear bottom card guide.</li> <li>c. <b>Discard the rear bottom card guide in the appropriate Recycling Bin.</b></li> </ol>	

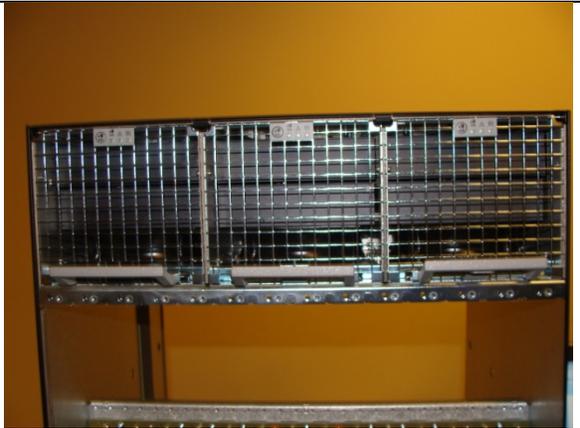
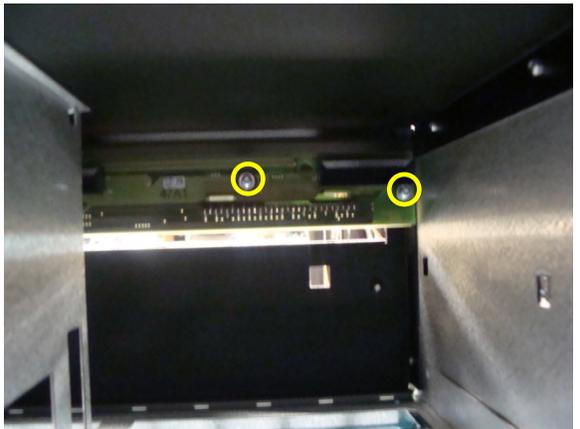
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5.		
6.	<p>Removal of the rear top card guide requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the two (2) screws on each side of the chassis that mounts the rear top card guide.</li> <li>b. Remove the rear top card guide.</li> <li>c. <b>Discard the rear top card guide and screws in the appropriate Recycling Bin.</b></li> </ol>	
6.		

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7.	<p>Removal of the backplane requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the eight (8) screws on the top of the backplane and the eight (8) screws the bottom of the backplane.</li> <li>b. Remove the backplane.</li> <li>c. <b>Discard the screws and the backplane in the appropriate Recycling Bin.</b></li> </ol>	
8.	<p>Removal of the rear cable tray requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the four (4) screws mounting the rear cable tray.</li> <li>b. Remove the rear cable tray.</li> <li>c. <b>Discard the screws and the rear cable tray in the appropriate Recycling Bin.</b></li> </ol>	
9.	<p>Removal of the fans does not require a tool.</p> <ol style="list-style-type: none"> <li>a. Lift the retention lever up and pull the fan out of the fan tray.</li> <li>b. Repeat for additional fans.</li> <li>c. <b>Discard the fans in the appropriate Recycling Bin.</b></li> </ol>	

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9.		
9.	<p>Removal of the fan combiner board requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove 2 screws on the combiner board located behind fan 0.</li> <li>b. Loosen and remove 3 screws on the combiner board located behind fan 1.</li> <li>c. Loosen and remove 2 screws on the combiner board located behind fan 3.</li> <li>d. Remove the fan combiner board.</li> <li>e. <b>Discard the screws and the fan combiner board in the appropriate Recycling Bin.</b></li> </ol>	
		

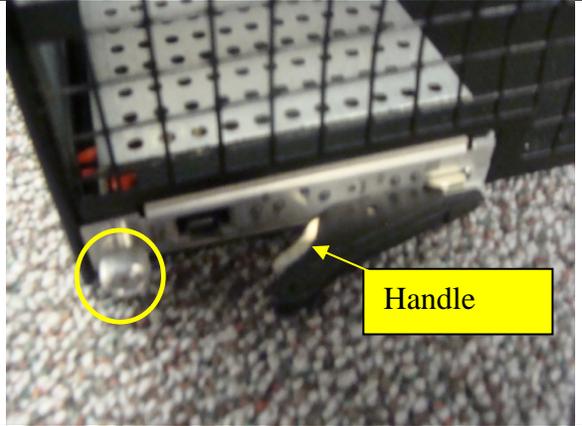
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10.	<p>Removal of the shelf alarm display requires a #1 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen the two screws connecting the shelf alarm display to the chassis.</li> <li>b. Remove the shelf alarm display.</li> </ol>	
	<p>Removal of the shelf alarm display combiner board requires a Torx T10 screwdriver.</p> <ol style="list-style-type: none"> <li>c. Loosen and remove the three screws and washers connecting the shelf alarm display combiner board to the shelf alarm.</li> <li>d. Remove the shelf alarm display combiner board.</li> <li>e. <b>Discard the screws, washers, shelf alarm display combiner board, and shelf alarm display in the appropriate Recycling Bin.</b></li> </ol>	

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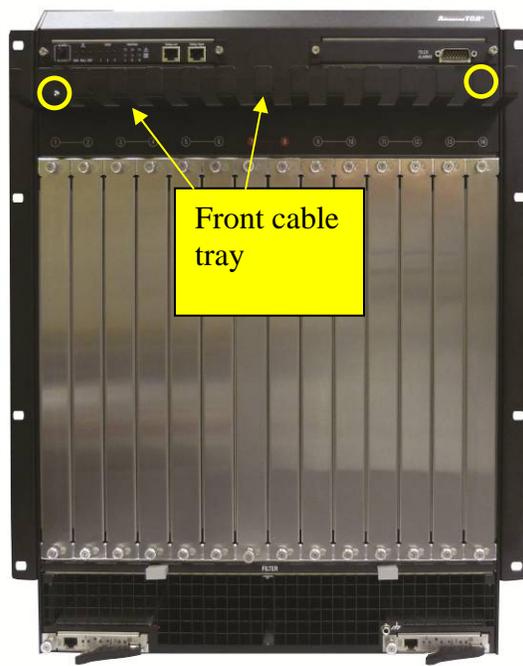
11.	<p>Removal of the shelf alarm panel requires a #1 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen the two screws connecting the shelf alarm panel to the chassis.</li> <li>b. Remove the shelf alarm panel.</li> </ol>	
	<p>Removal of the shelf alarm panel combiner board requires a Torx T10 screwdriver.</p> <ol style="list-style-type: none"> <li>c. Loosen and remove the three screws and washers connecting the shelf alarm panel combiner board to the shelf alarm panel.</li> <li>d. Remove the shelf alarm panel combiner board.</li> </ol>	
	<ol style="list-style-type: none"> <li>e. Remove the two nuts connecting the telco alarm connector to the shelf alarm panel.</li> <li>f. <b>Discard the screws, nuts, washers, telco alarm connector, shelf alarm panel combiner board, and shelf alarm panel in the appropriate Recycling Bin.</b></li> </ol>	

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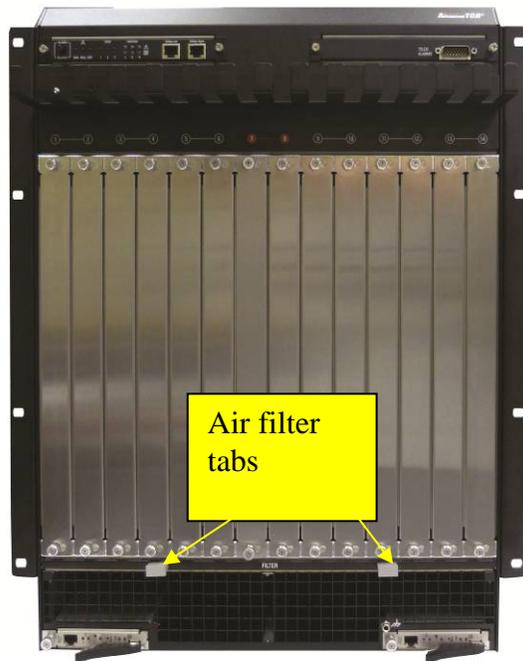
12.	<p>Removal of the shelf alarm manager requires a #1 Phillips screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen the screw mounting the shelf manager to the chassis.</li> <li>b. Release the handle to unlock the shelf Manager.</li> <li>c. Pull the Shelf Manager straight out the front of the chassis. Repeat if a second Shelf Manager is present.</li> </ol>	
	<ol style="list-style-type: none"> <li>d. Release the latch on both sides of the daughter card that is inserted in the slot on the shelf manager. Repeat if a second Shelf Manager is present.</li> <li>e. Pull the card from the slot. Repeat if a second Shelf Manager is present.</li> </ol>	
	<ol style="list-style-type: none"> <li>f. Using a Torx T10 screwdriver remove the 4 screws and washers mounting the shelf manager board to the card guide. Repeat if a second Shelf Manager is present.</li> <li><b>g. Discard the shelf manager, card guide, daughter card, screws, and washers in the appropriate Recycling Bin.</b></li> </ol>	

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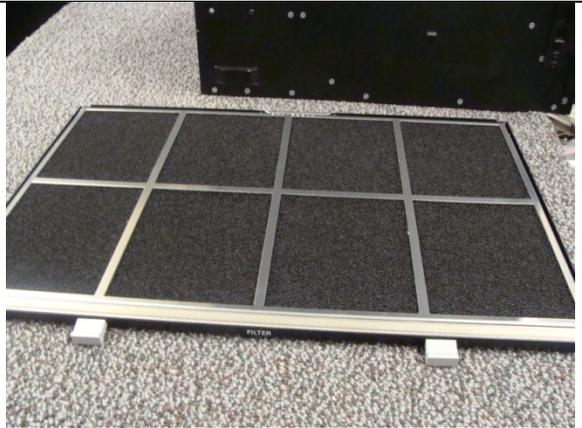
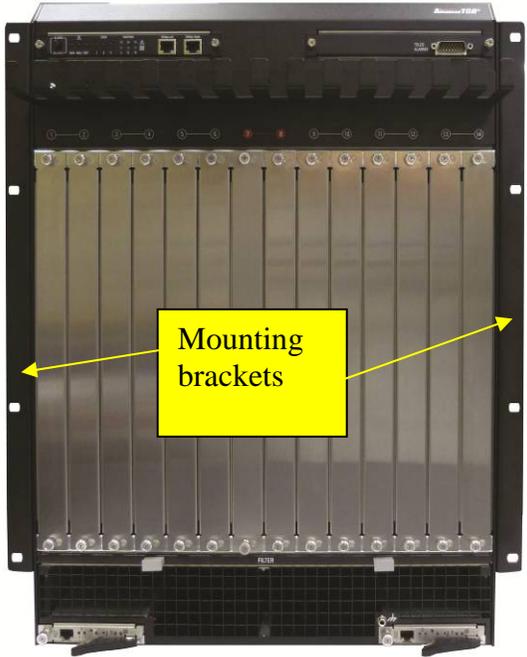
13. Removal of the front cable tray requires a Torx T15 screwdriver.
- a. Loosen and remove the two screws mounting the cable tray to the chassis.
  - b. Discard the screws and the cable tray in the appropriate Recycling Bin.**



14. Removal of the air filter does not require a tool.
- a. Using the two white tabs pull the air filter from the chassis.
  - b. Discard the air filter in the appropriate Recycling Bin.**



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15.	<p>Removal of the mounting bracket requires a Torx T15 screwdriver.</p> <ol style="list-style-type: none"> <li>a. Loosen and remove the two screws mounting the brackets on each side of the chassis.</li> <li>b. Push brackets down to remove.</li> <li>c. <b>Discard the screws and brackets in the appropriate Recycling Bin.</b></li> </ol>	

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15.



Fully Disassembled Unit

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**DISCARD THE FULLY DISASSEMBLED UNIT IN THE APPROPRIATE RECYCLE BIN.**

Recycling/Material Code	Important Information
<b>Material /Components, which must be removed and treated separately</b>	
Lithium Battery	Battery free of hazardous substances, installed in socket on the motherboard
Printed circuit boards	Blade, Fan Controller Board, Alarm Panel Board, Power Supply, Backplane, Shelf Manager
Disk Drives	If present, mounted on the RTM or AMC

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<b>Material /Components, which can disturb certain recycling processes</b>	
Copper	None
<b>Material /Components, through which benefits can normally be achieved</b>	
Cold Rolled Steel	Chassis
* ABS	None
Cables	Power feeds
Fans	Fan Assembly
<b>Special notes</b>	
* Flame retardant of plastics <b>do not</b> contain PBB and PBDE.	

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### Annex A

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	<b>NONE</b>
Backlighting lamps of LCD/TFT or similar screens containing Mercury (Hg)	<b>NONE</b>
Mercury (Hg) in other applications**	<b>NONE</b>
Cadmium**	<b>NONE</b>
Gas discharge lamps	<b>NONE</b>
Plastic containing brominated flame retardants other than in Printed Circuit Assemblies ***	<b>NONE</b>
Liquid Crystal Displays with a surface greater than 100 cm <sup>2</sup>	<b>NONE</b>
Capacitors with PCB's	<b>NONE</b>
Capacitors with substances of concern**** + height > 25 mm, diameter > 25 mm or proportionately similar volume	<b>NONE</b>
Asbestos	<b>NONE</b>
Refractory ceramic fibres	<b>NONE</b>
Radio-active substances	<b>NONE</b>
Beryllium Oxide	<b>NONE</b>
Other forms of Beryllium	<b>BE-CU in some connector contacts</b> ↓
Gasses - which fall under Regulation (EC) 2037/2000 and all hydrocarbons (HC).	<b>NONE</b>
Components with pressurised gas which need special attention (Pressure > 1,5 bar) *****	<b>NONE</b>
Liquids ***** if volume > 10 cl (or equivalence in weight, e.g. for PCB, oil...)	<b>NONE</b>
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)	<b>NONE</b>
PBDE (deca- & octa-BDE) and Perfluorocatane sulfantes (PFOS) in Directive 2006/122/EC	<b>NONE</b>

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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.