



XTM 5 Series De-manufacturing Instructions

Document Number: 480-2535-001

1.0 Purpose

This instruction defines the de-manufacturing process for the recovery of this product family as it pertains to recycling of the major product components.


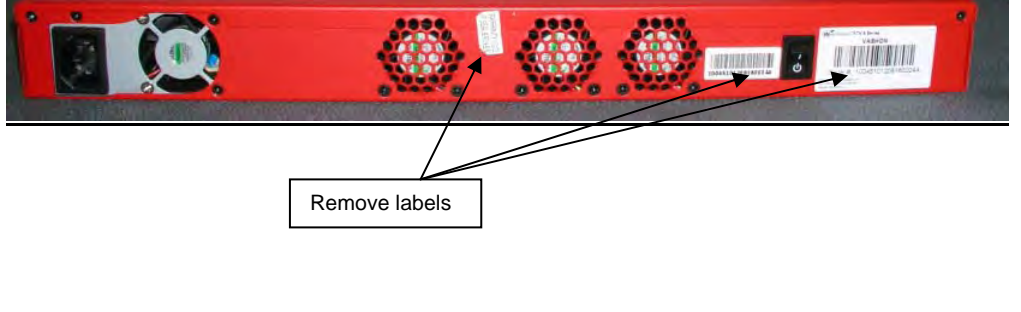
2.0 Scope

This instruction applies to the following product family and family part numbers.

Product Family Name	Family part #'s (not necessarily inclusive)
XTM 5 series	XTM 505, XTM 510, XTM 520, XTM 530; all revisions

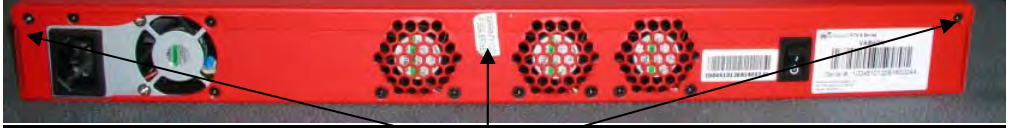
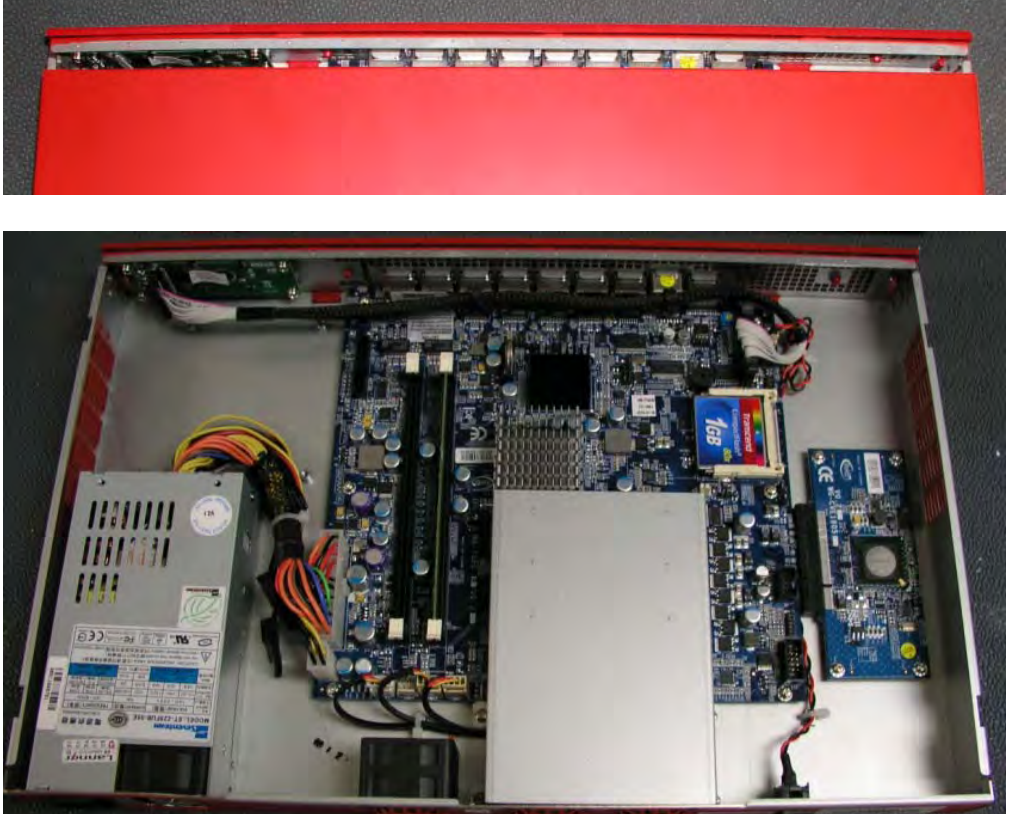
3.0 Instruction

3.1 -Remove labels

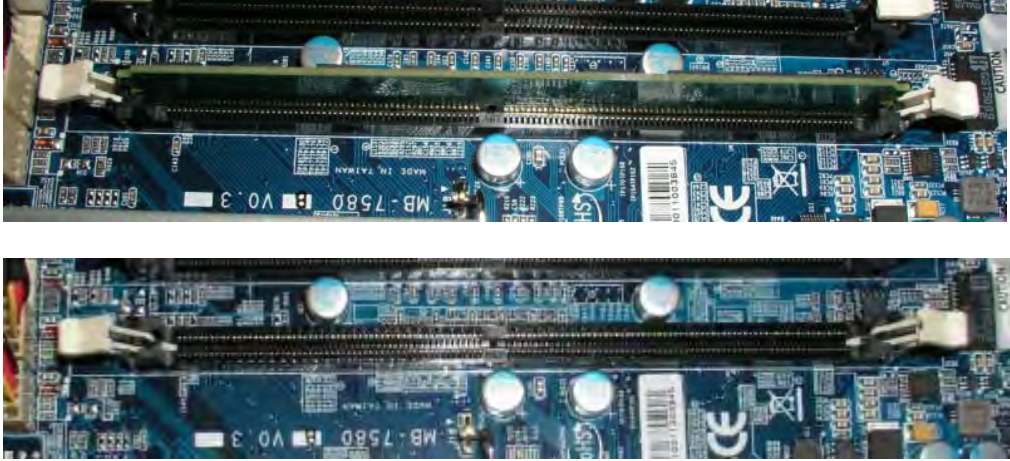
Material removed (part Desc or P/N & material type)	Instruction visual
<p>Labels Cert. label: 277-2813-001– Metalized poly-film; 1 ea. China RoHS label: 277-2722-001 – Poly-film; 1 ea.</p>	
<p>Labels Warranty Void: 277-0230-001 – Poly-film; 1 ea. ODM Bar Code: 277-3821-001 - Poly-film; 1 ea. Product UPC/Serial: 281-3800-5xx - Poly-film; 1 ea.</p>	

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3.2 –Remove back screws holding chassis top to chassis bottom and remove top cover.


Material removed (part Desc or P/N & material type)	Instruction visual
<p>Screws 200-4506-242 - Philips flat head; black; 3 ea.</p>	 <p>Remove screws; 3 ea.; back</p>
<p>Chassis Top 212-3816-001- galvanized steel w/powder coat paint</p>	

3.3 –Depress memory tabs and remove memory.

Material removed (part Desc or P/N & material type)	Instruction visual
<p>Memory Module 114-3626-001 – 1GB DDR2 Memory Module, 1 ea.</p>	

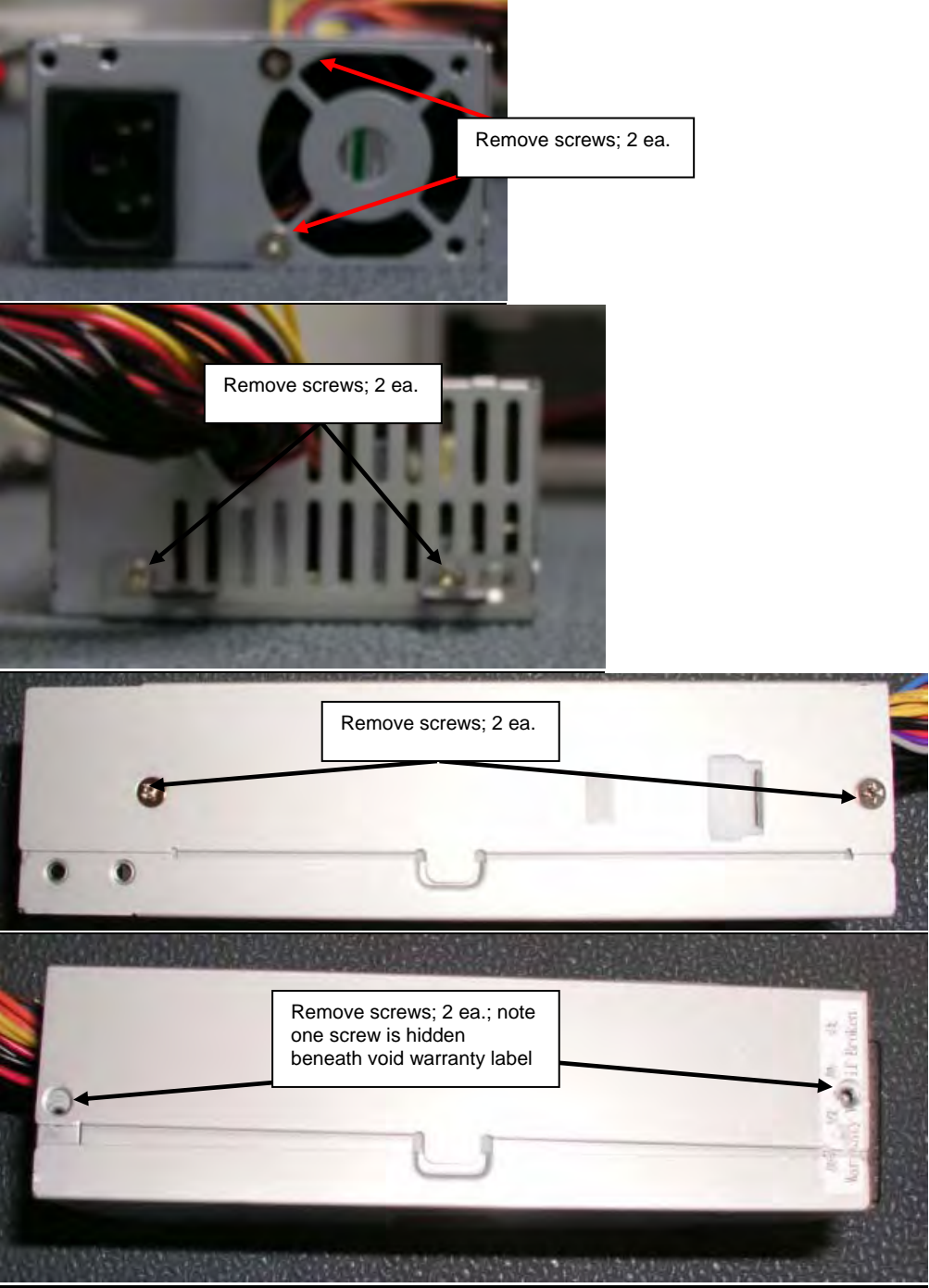
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3.4 – Unplug power supply cables from motherboard, cut all cable ties, remove power supply screws, and remove power supply.

<p>Material removed (part Desc or P/N & material type)</p>	<p>Instruction visual</p>
<p>Power Supply 140-3822-001 – Power supply, universal, 220W; 1 ea.</p> <p>Screws 203-7306-002 – screws, pan head; 2 ea.</p>	

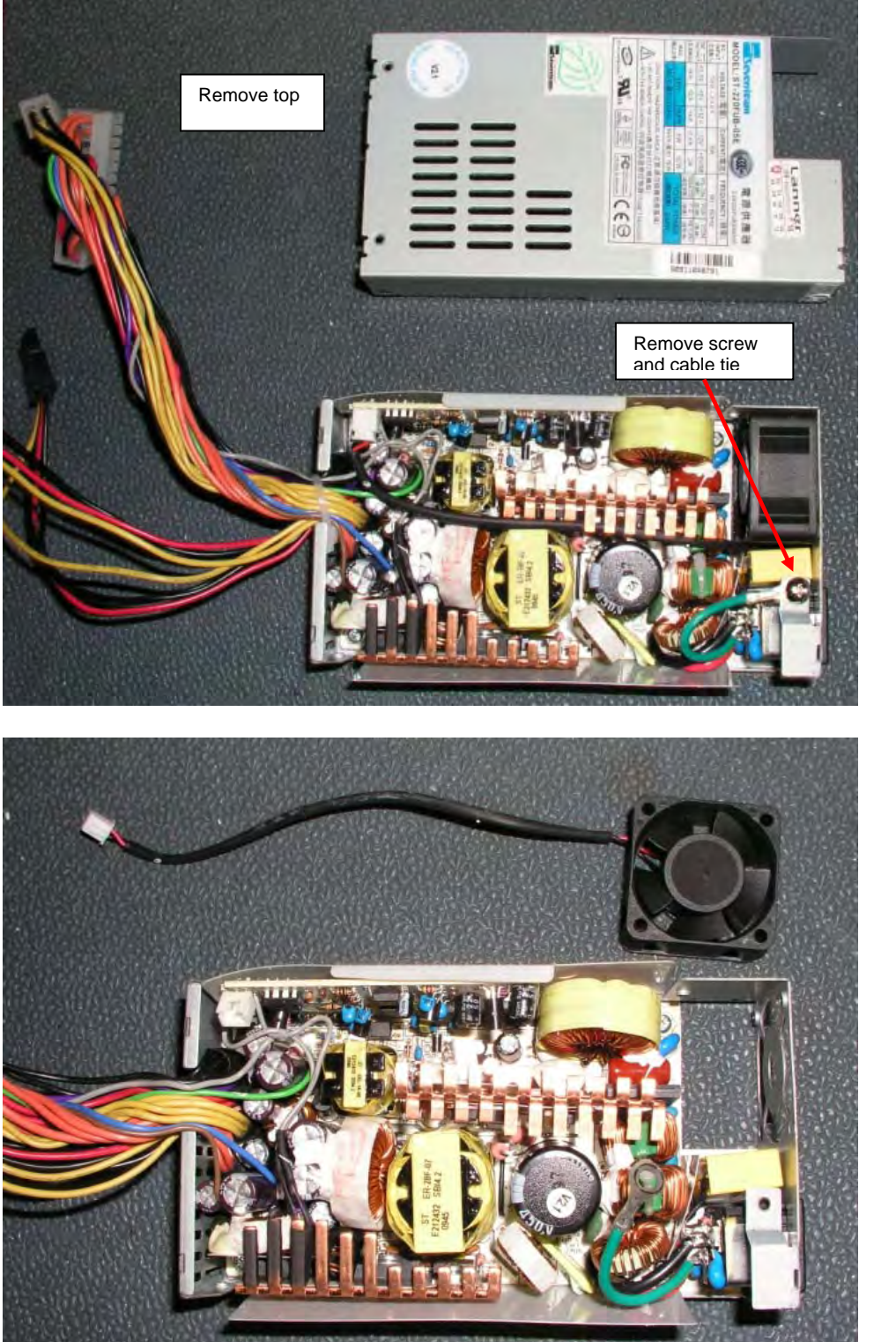
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3.5 – Remove screws from the power supply.

Material removed (P/N & material type)	Instruction visual
<p>Power Supply 140-3822-001 – Power supply, universal, 220W; 1 ea.</p> <p>Screws Part of power supply, no WG part number– Philips flat-head; Steel/zinc; 1 ea.</p> <p>Bracket 212-3637-001; power supply bracket; 1 ea.</p>	 <p>Remove screws; 2 ea.</p> <p>Remove screws; 2 ea.</p> <p>Remove screws; 2 ea.</p> <p>Remove screws; 2 ea.; note one screw is hidden beneath void warranty label</p>


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3.6 –Remove the top from the power supply, remove the cable tie and screw inside the power supply, and remove fan from the power supply.

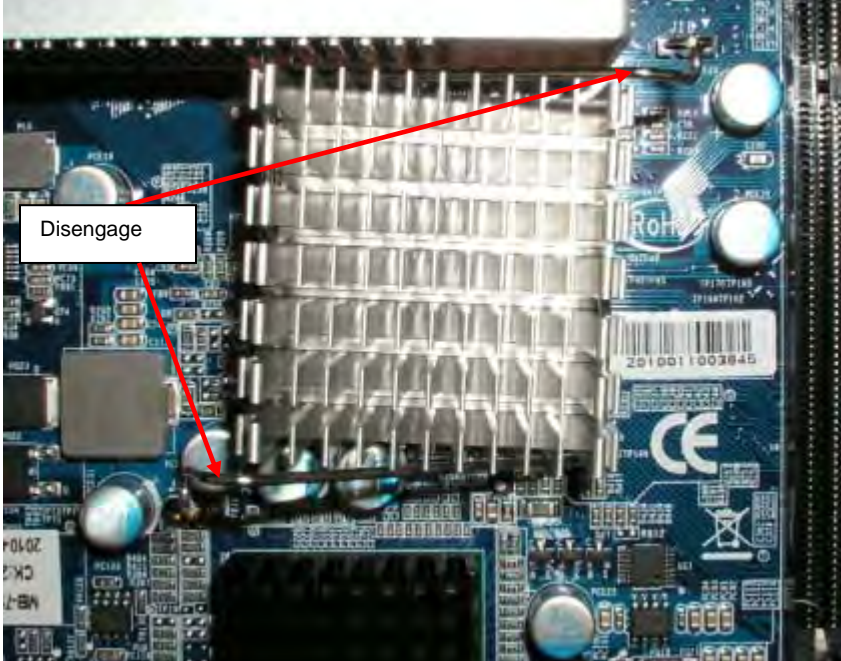
Material removed (P/N & material type)	Instruction visual
<p>Power Supply 140-3822-001 – Power supply, universal, 220W; 1 ea.</p> <p>Screws Part of power supply, no WatchGuard part number – Philips pan-head; Steel/zinc; 1 ea.</p>	 <p>The instruction visual consists of three photographs. The top photograph shows a closed power supply unit with a label 'Remove top' pointing to the top cover. The middle photograph shows the power supply with the top cover removed, revealing internal components, with a red arrow and label 'Remove screw and cable tie' pointing to a screw on the right side. The bottom photograph shows the power supply with the fan removed, with a black cable and fan assembly placed above it.</p>

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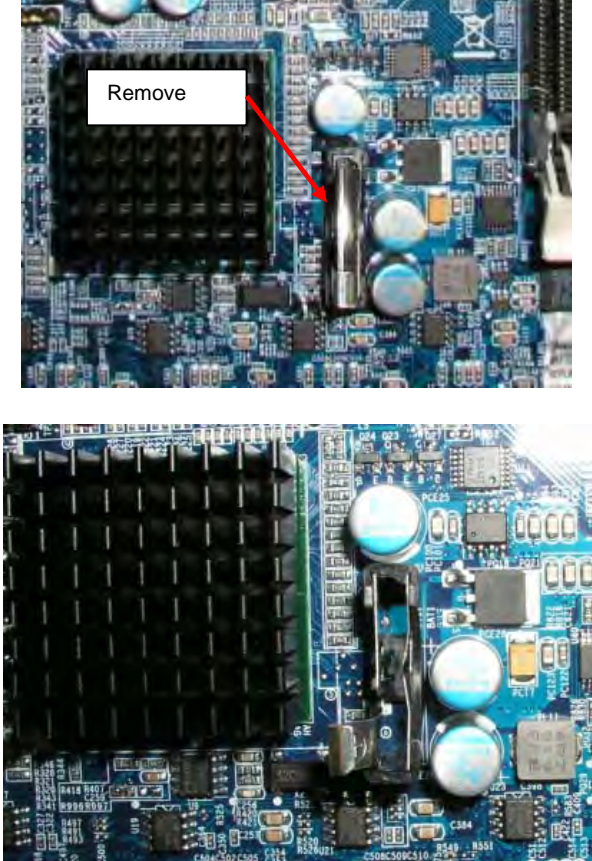
3.7 – Remove labeling from the top lid and the bottom of the power supply.

<p>Material removed (P/N & material type)</p>	<p>Instruction visual</p>
<p>Power Supply 140-3822-001 – Power supply, universal, 220W; 1 ea.</p>	


3.8 – Disengage heatsink clamps and remove heatsink from motherboard.

Material removed (P/N & material type)	Instruction visual
<p>Heatsink 52-3170-001 - heatsink, 42 x 42 x 30 mm; 1 ea.</p>	 <p>The image shows a close-up of a blue printed circuit board (PCB) with a large, silver, multi-finned heatsink mounted on it. A red arrow points from a white rectangular box containing the word "Disengage" to a small metal clamp on the side of the heatsink. The clamp is positioned to hold the heatsink in place. The motherboard has various components visible, including capacitors, integrated circuits, and a barcode label with the number "201001003845".</p>

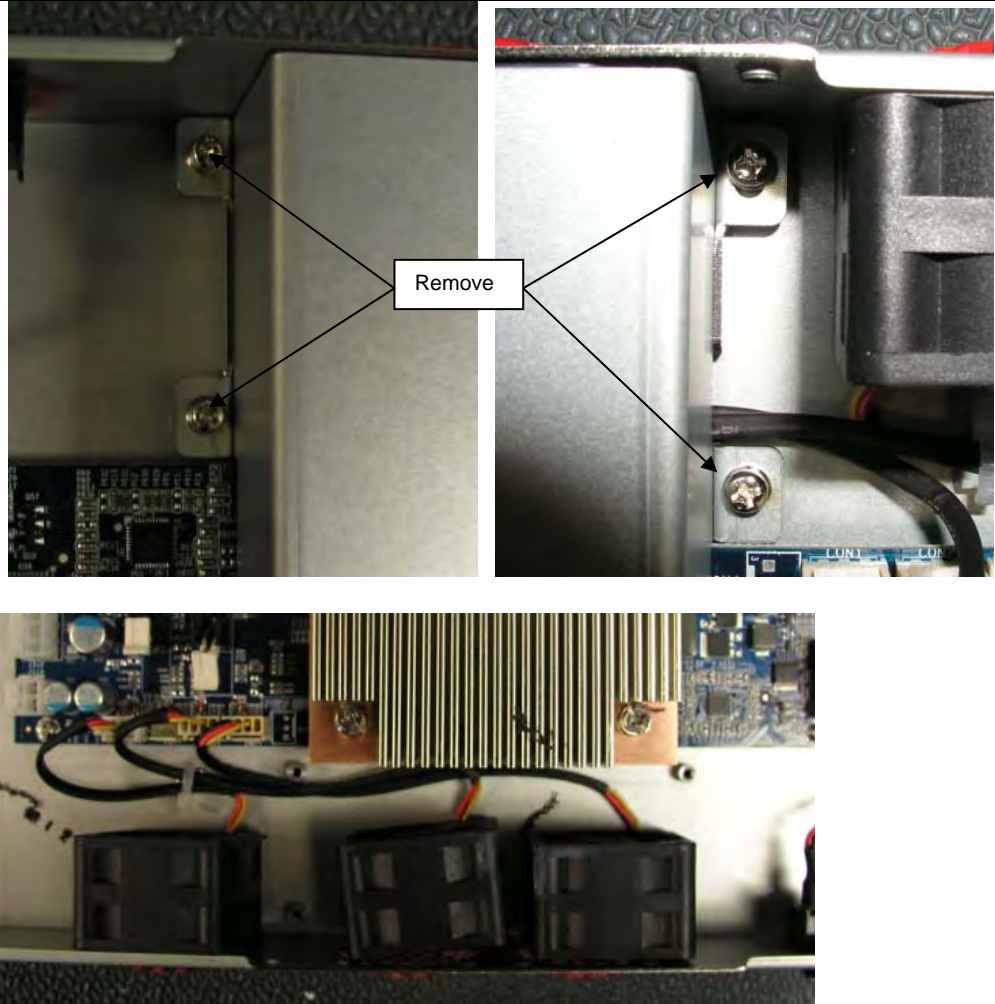
3.9 – Pull back clamp and remove battery.

Material removed (P/N & material type)	Instruction visual
<p>Battery 412-2468-001 – battery, CR2032; 1 ea</p>	 <p>The instruction visual consists of two photographs. The top photograph shows a close-up of a blue printed circuit board (PCB) with a black heat sink on the left. A silver metal clamp is positioned over a CR2032 battery. A red arrow points from a white box labeled 'Remove' to the battery. The bottom photograph shows the same assembly from a slightly different angle, with the metal clamp being pulled back, demonstrating the removal process.</p>

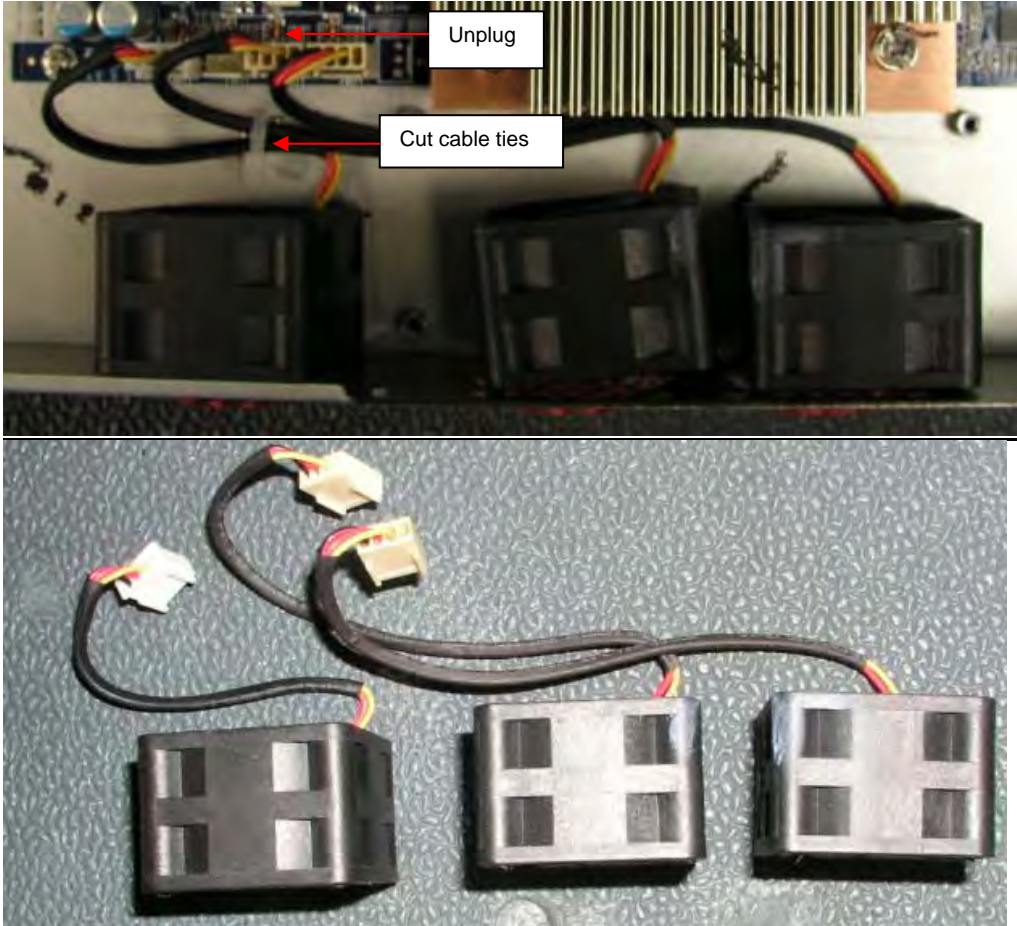
3.10 – Remove fan screws from back of chassis.

Material removed (P/N & material type)	Instruction visual
<p>Screws 200-4506-242 – screws, black, 12 ea.</p> <p>Chassis bottom 212-3817-001 – bottom, chassis, red; 1 ea</p>	

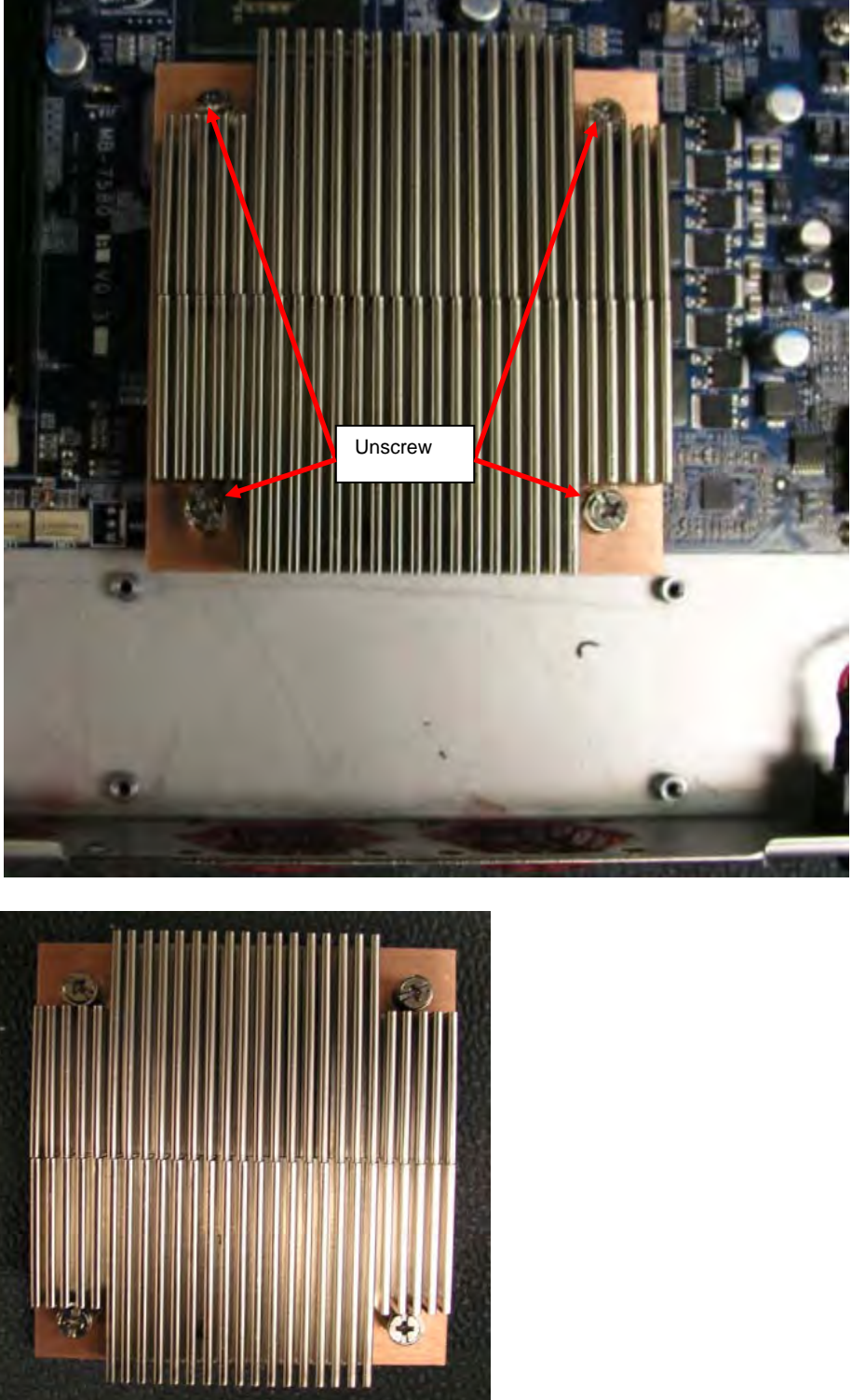
3.11– Remove screws from fan duct and remove fan duct.

Material removed (P/N & material type)	Instruction visual
<p>Fan duct 212-3544-001 – fan duct; 1 ea.</p> <p>Screws 203-7306-002 – screws, pan head; 4 ea.</p>	

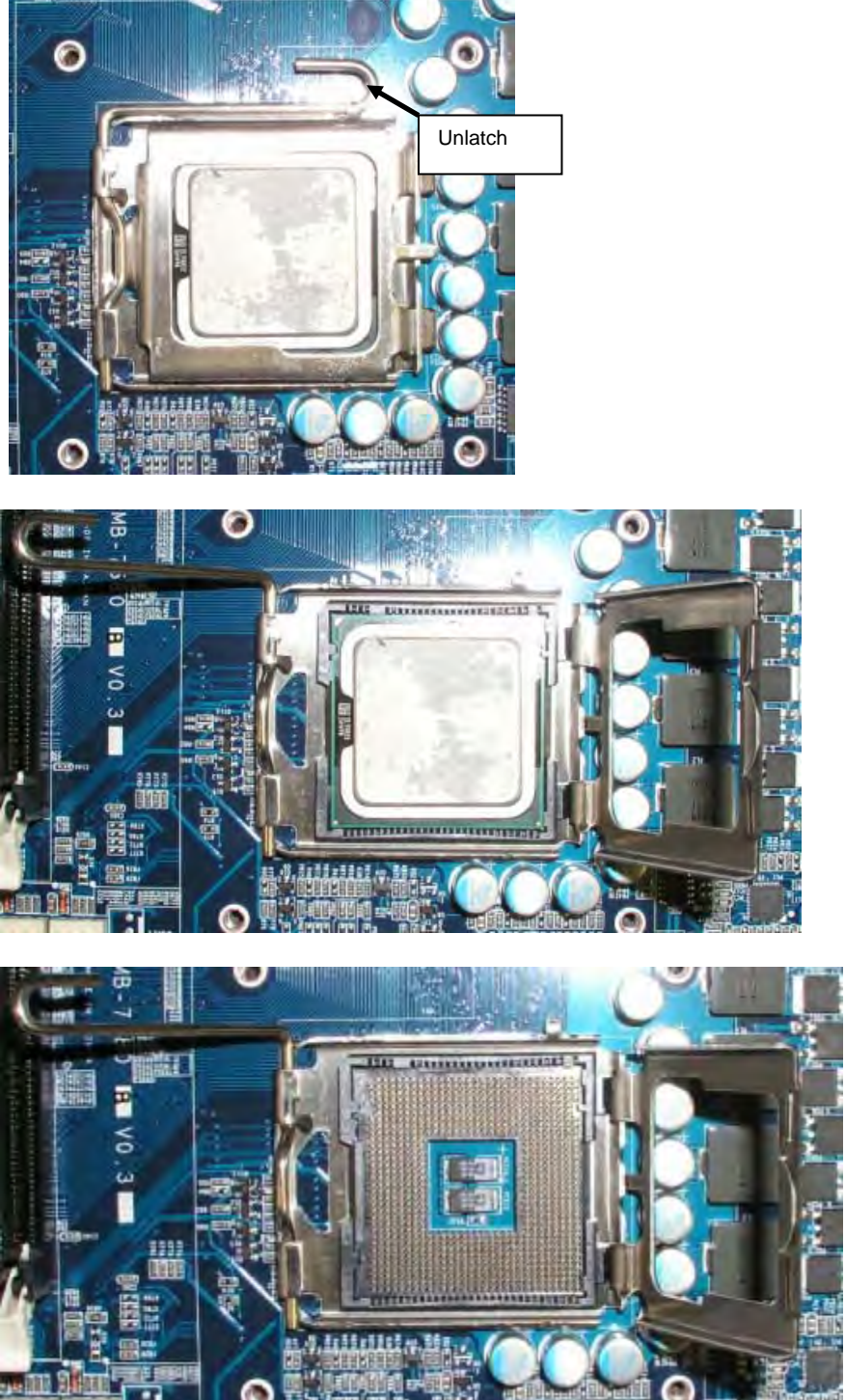
3.12 – Cut cable ties for fans, unplug fans from motherboard, and remove fans.

Material removed (P/N & material type)	Instruction visual
<p>Chassis Fan 145-3599-015 – Fan, chassis, 12V, w/15 cm cable; 1 ea.</p> <p>Chassis Fan 145-3599-010 – Fan, chassis, 12V, w/10 cm cable; 1 ea.</p>	 <p>The top photograph shows a close-up of a fan's power cable being unplugged from a motherboard. A red arrow points to the connector with the label 'Unplug'. Another red arrow points to a cable tie holding the fan in place, with the label 'Cut cable ties'. The bottom photograph shows three chassis fans lying on a blue textured surface. Each fan has its power cable detached, with the connectors clearly visible.</p>

3.13 – Unscrew screws from heatsink and remove heatsink from motherboard.
Note that screws cannot be removed from the heatsink itself.

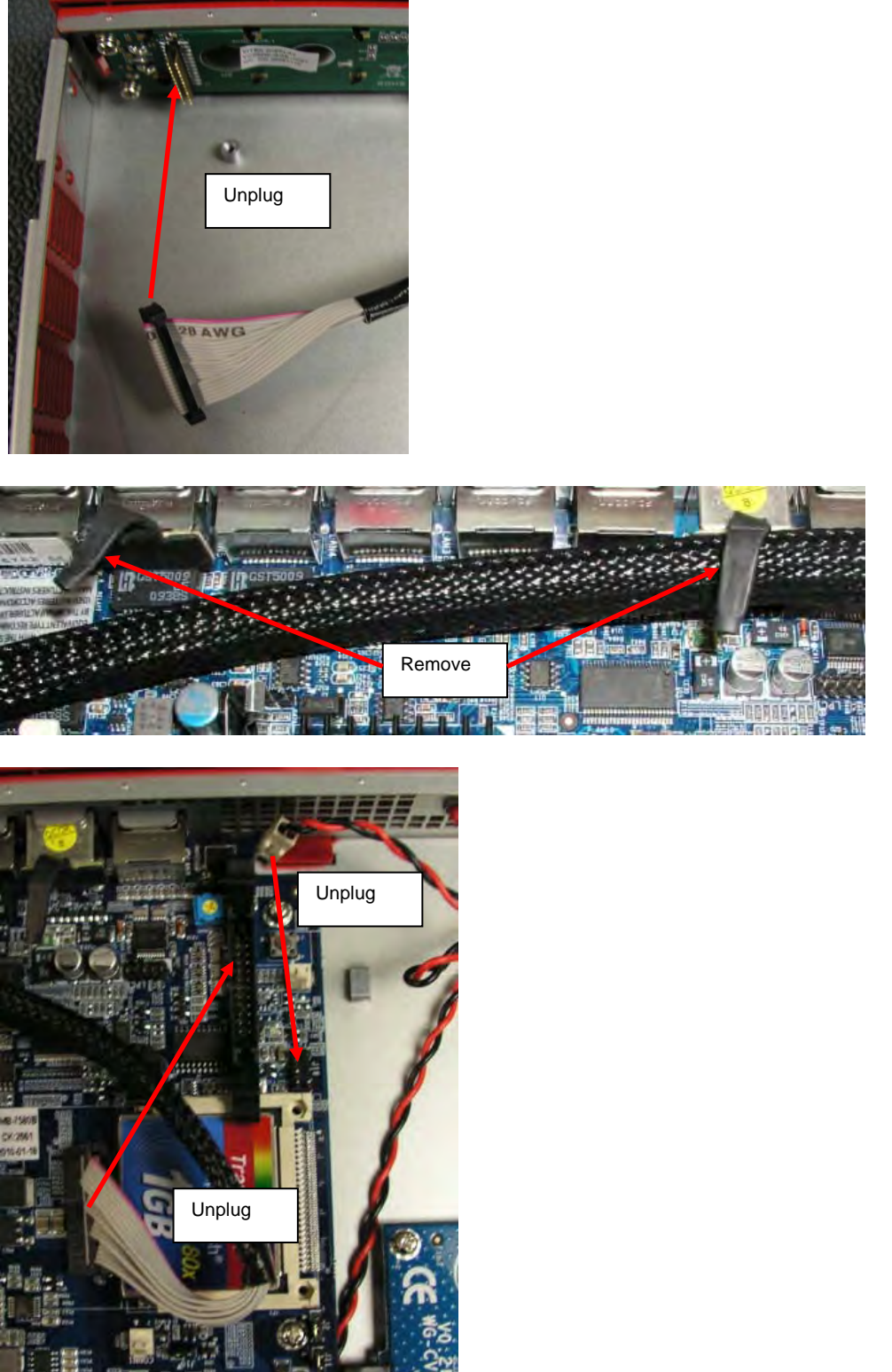
Material removed (P/N & material type)	Instruction visual
<p>Heatsink 152-3139-001 – Heatsink, CPU, alum, with screws and springs, 1 ea.</p>	

3.14 – Unlatch CPU from motherboard and remove CPU.


Material removed (P/N & material type)	Instruction visual
<p>CPU 113-3552-001 – CPU, Celeron 440, 2.0GHz, 1 ea.</p>	

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3.15 – Unplug LCD cable from LCD circuit board and motherboard. Unplug rocker switch cable from motherboard. Remove LCM cable.

Material removed (P/N & material type)	Instruction visual
<p>LCD cable assembly 148-3691-002 – LCD cable assembly, 24 pin to 24 pin; 1 ea.</p> <p>Power switch assembly 175-3596-001 – power switch assembly; 1 ea.</p>	 <p>The instruction visual consists of three photographs showing the removal of components from a device. The top photograph shows a white cable being unplugged from a green circuit board, with a red arrow pointing to the connection point and a white box labeled 'Unplug'. The middle photograph shows a black ribbon cable being removed from a blue motherboard, with two red arrows pointing to the connection points and a white box labeled 'Remove'. The bottom photograph shows a power switch assembly being unplugged from a blue motherboard, with two red arrows pointing to the connection points and two white boxes labeled 'Unplug'.</p>

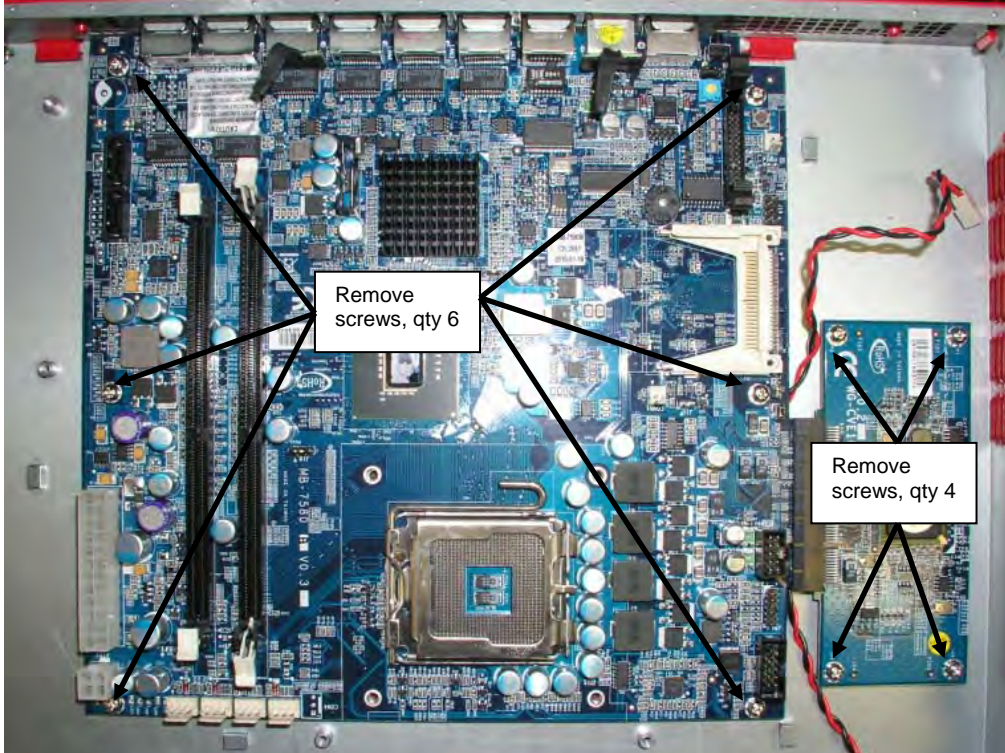
3.16 – Cut cable tie attaching power switch cable to chassis.

Material removed (P/N & material type)	Instruction visual
<p>Power switch assembly 175-3596-001 – power switch assembly; 1 ea.</p>	

3.17 – Slide the compact flash card out of the slot and remove.

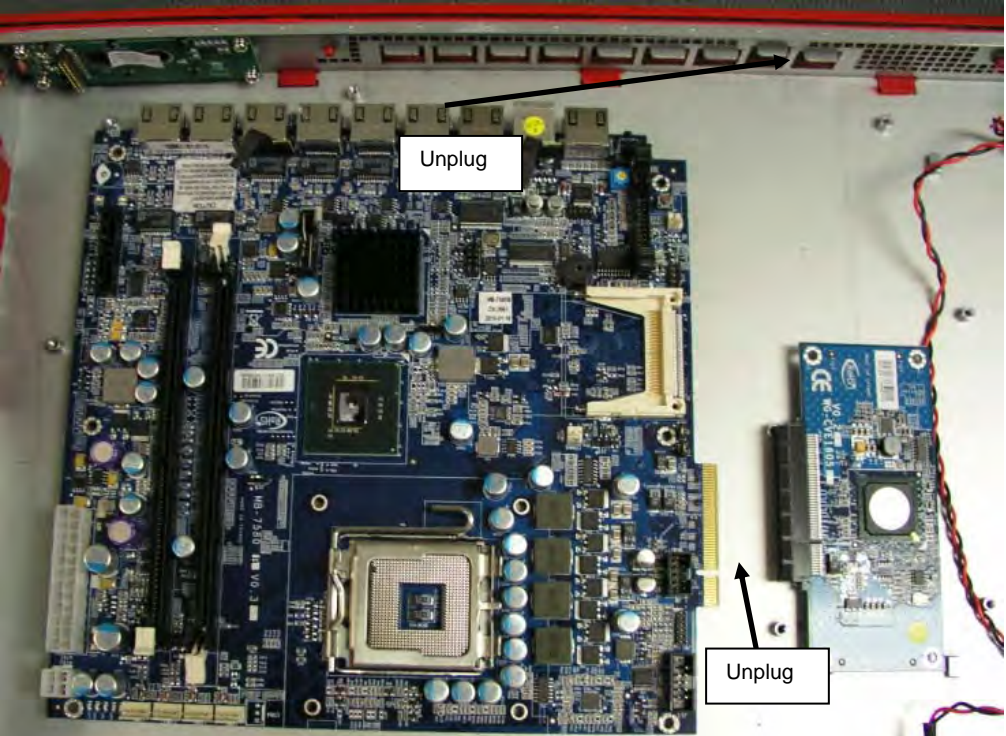
Material removed (P/N & material type)	Instruction visual
<p>Compact Flash card 121-0554-010 – Compact Flash, 1GB; 1 ea.</p>	

3.18 – Remove screws attaching the motherboard to the chassis and the Cavium card to the chassis.

Material removed (P/N & material type)	Instruction visual
<p>Screws 203-7306-002 – screws, pan head; 10 ea.</p> <p>Motherboard 299-3810-002 – PCBA, motherboard, 1 ea.</p> <p>Cavium card 299-3805-605 – PCBA, Cavium card, CN 1605; 1 ea.</p>	 <p>The image shows a server chassis with a blue motherboard and a Cavium card. Six screws are indicated for removal on the motherboard, and four screws are indicated for removal on the Cavium card. The callout boxes specify the quantities: 'Remove screws, qty 6' for the motherboard and 'Remove screws, qty 4' for the Cavium card.</p>

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3.19 – Unplug the Ethernet ports on the motherboard from the chassis and unplug the Cavium card from the motherboard. Remove the motherboard and the Cavium card.


Material removed (P/N & material type)	Instruction visual
<p>Motherboard 299-3810-002 – PCBA, motherboard, 1 ea.</p> <p>Cavium card 299-3805-605 – PCBA, Cavium card, CN 1605; 1 ea.</p> <p>Chassis bottom 212-3817-001 – bottom, chassis, red; 1 ea</p>	

3.20 – Remove screws attaching the LCM display to the chassis. Remove the LCM display.

Material removed (P/N & material type)	Instruction visual
<p>Motherboard 700-3015-001 – LCM display and LCD interface; 1 ea.</p> <p>Chassis bottom 212-3817-001 – bottom, chassis, red; 1 ea</p> <p>Screws 203-7306-002 – screws, pan head; 4 ea.</p>	

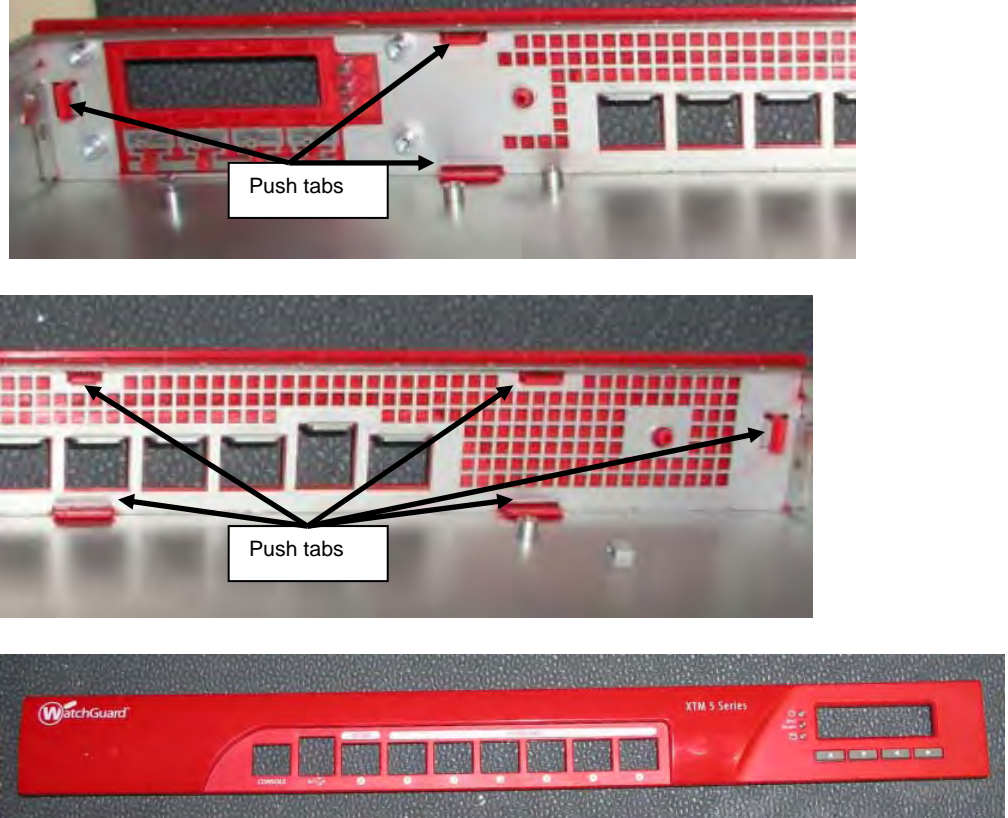
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3.21 – Use a flat-head screwdriver to disengage the power switch assembly from the chassis. Remove the power switch assembly.

Material removed (P/N & material type)	Instruction visual
<p>Power switch assembly 175-3596-001 – power switch assembly; 1 ea.</p> <p>Chassis bottom 212-3817-001 – bottom, chassis, red; 1 ea</p>	

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3.22 – Push tabs on the inside of the bezel to disengage from the chassis.
Remove the bezel. A flat-head screwdriver can be useful in this step.

<p>Material removed (P/N & material type)</p>	<p>Instruction visual</p>
<p>Bezel 230-3820-001 – bezel, red, glossy; 1 ea.</p> <p>Chassis bottom 212-3817-001 – bottom, chassis, red; 1 ea</p>	

4.0 Applicable Documents

5.0 Revision History

REV. NO.	REV. DATE	REVISED SECTION	REASON	ECO#
A	6/10/10	New document	Initial Release	1790

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