



WEEE DISASSEMBLY INSTRUCTIONS

SUPERMICRO SYS-122H-TN ENCLOSURE

Abstract

This document provides clear guidance for end-of-life recyclers on how to identify and disassemble reportable materials in compliance with the Waste Electrical and Electronic Equipment (WEEE) directive.

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1. Product Views

Front view

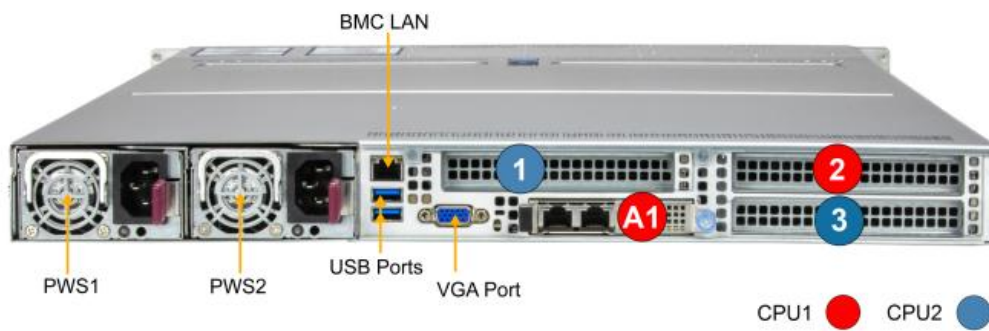
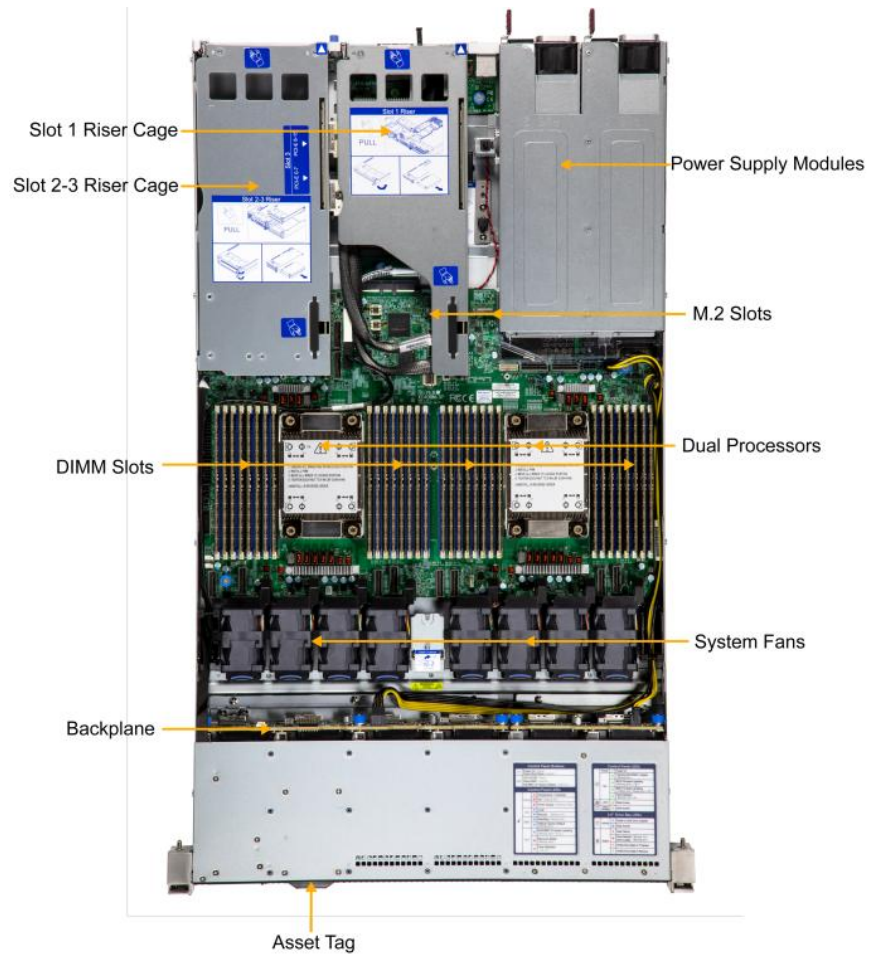


Rear view



Product construct view





2. Reportable Materials on SYS-122H-TN

According to Article 8(2) and Annex VII of WEEE directive 2012/19/EU, below materials and components should be selectively treated.

Description	Notes	No.	Quantity
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm (Depending on the configuration)	2.4, 3.5, 4.1, 5.1, 6.1, 6.2, 7.2, 8.2, 9.1, 10.1, 11.1	57
Batteries	All types, including standard alkaline and lithium coin or button style batteries	11.2	1
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries		
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps		
Cathode Ray Tubes (CRT)			
Capacitors / condensers (Containing PCB/PCT)			
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	(Depending on the power supply model)	3.6	2
External electrical cables and cords		1.1	2
Gas Discharge Lamps			
Plastics containing Brominated Flame Retardants			
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste), and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.		
Components and waste containing asbestos			
Components, parts, and materials containing refractory ceramic fibers			
Components, parts, and materials containing radioactive substances			

* Quantities vary by configuration.

3. Disassemble Instructions

The intent of this document is to provide guidance to recyclers on the presence of materials and components at the product / family level, as required by the EU WEEE Directive 2012/10/EU. This document should also help direct recyclers to proper methods for removing parts and general product disassembly instructions.

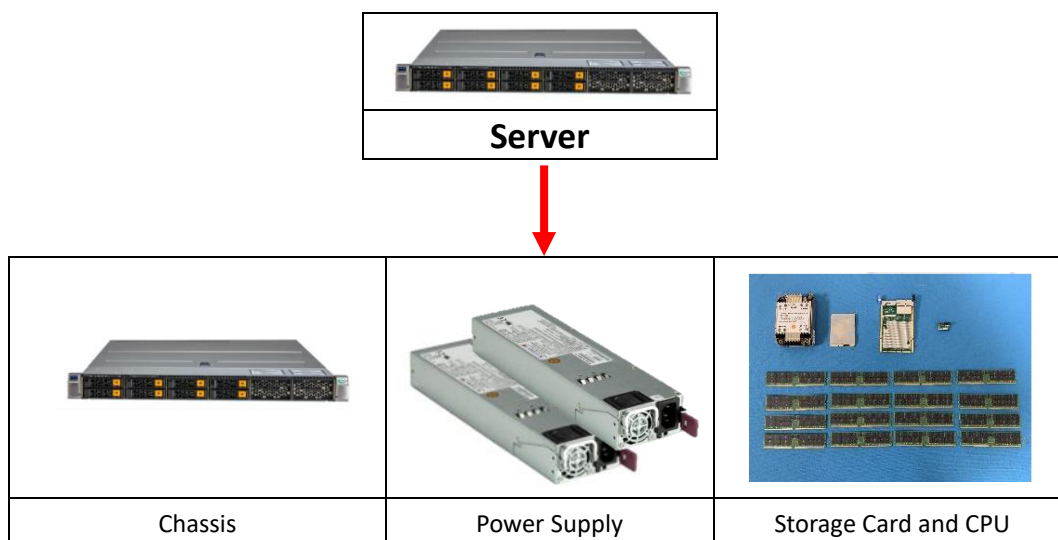
This chapter consists of three subsections:

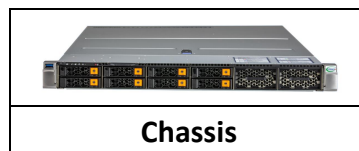
Recommended disassembly tools, disassembled flowchart, and step-by-step disassembly instructions to direct recycler proper methods to treat.

3.1 Recommended Disassembly Tools

Disassembly tool	T30-bit screwdriver	
	Cross screwdriver	
	Flathead screwdriver	

3.2 Disassembled flowchart

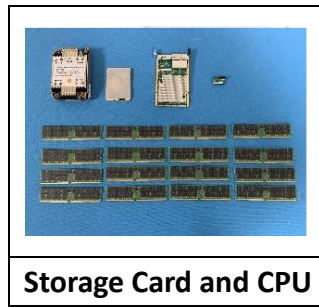




			
Backplane	Air Shroud	Screw	Fan
			
Motherboard and Other Curit Board	Motherboard and Other Circuit Board	Battery	



			
Power Enclosure	Screw and Standoff	Power Supply Module	Power Cable



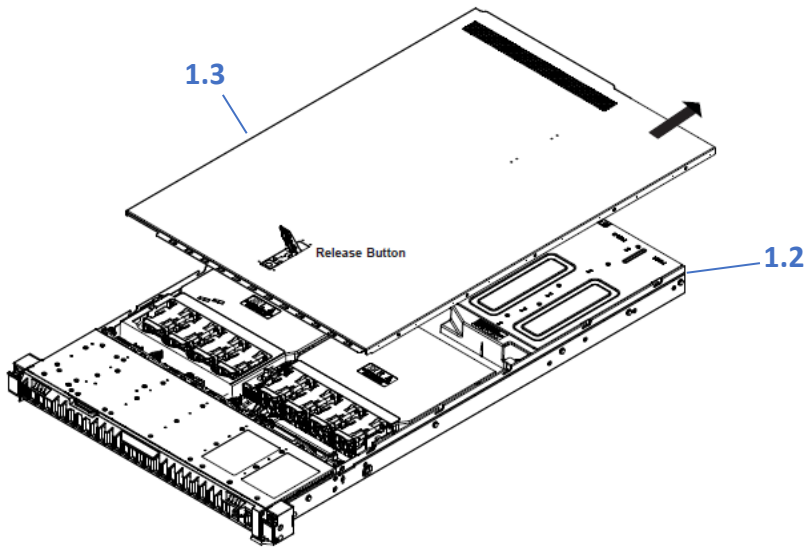
			
Heat Sink	Processor	SSD	AIOM
			
Add-on Card	DIMM	M.2	GPU

3.3 Step-by-Step Disassembly Instructions

1. Removing Power Cable and Chassis Top Cover

1. Use the operating system to power down the system
2. After the system has completely shut-down, disconnect the power cords from the power supply modules
3. Remove all cables/ unit from the server IO port

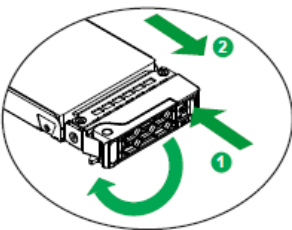




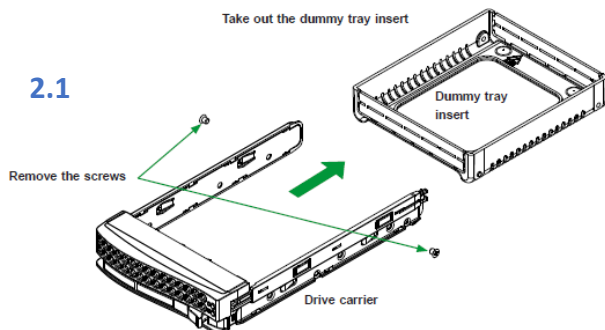
No.	Description
<u>1.1</u>	Power Cable
1.2	Chassis
1.3	Top Cover

2. Removing Hard Disk Drive (HDD)/ Solid State Drive (SSD)

1. Press the release button on the drive carrier, which will extend the drive carrier handle.
2. Use the drive carrier handle to pull the drive out of the chassis.

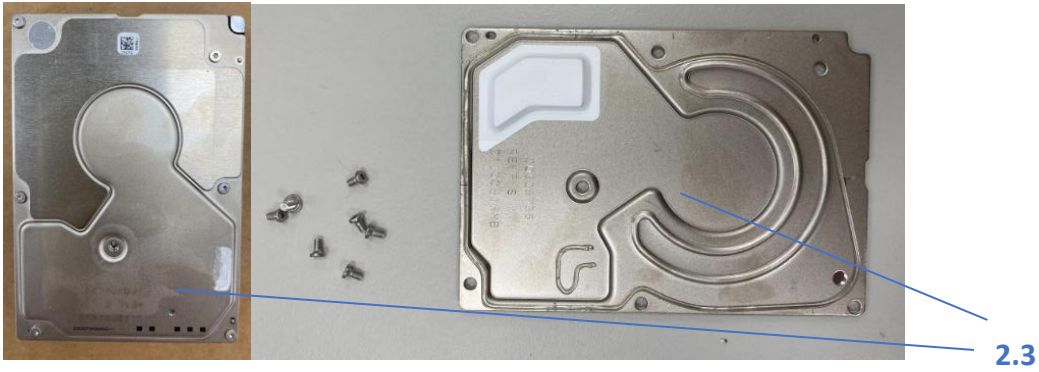


3. Remove the dummy tray insert by first removing two screws, then pull out the dummy tray

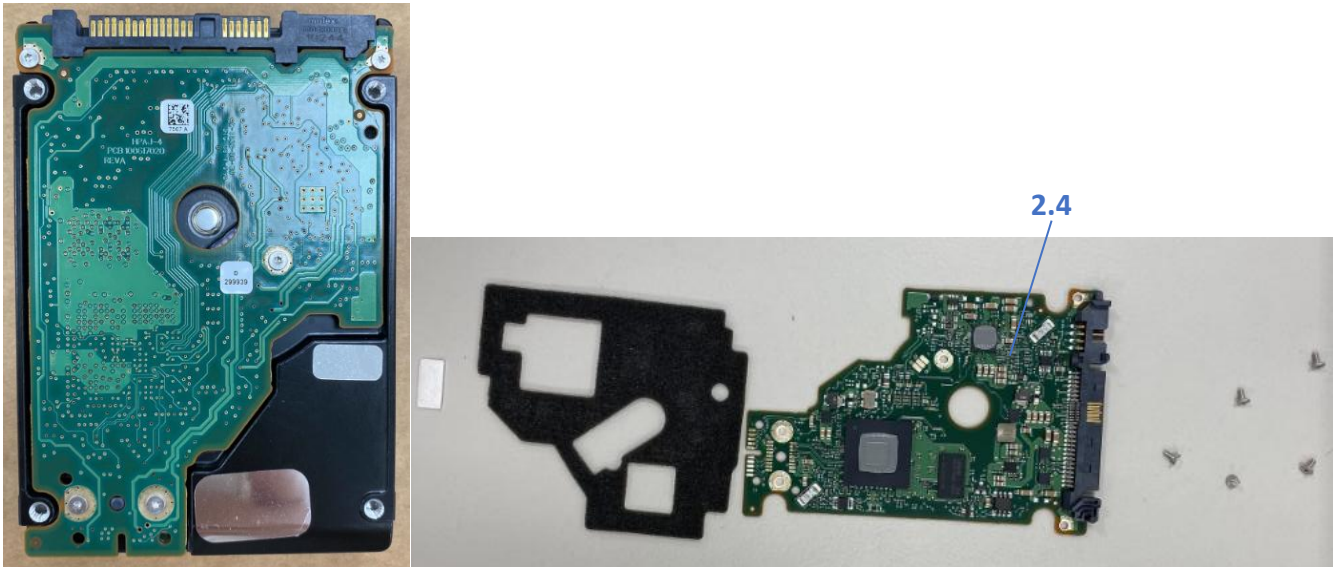


2.2





5. Use a cross screwdriver to remove drive enclosure

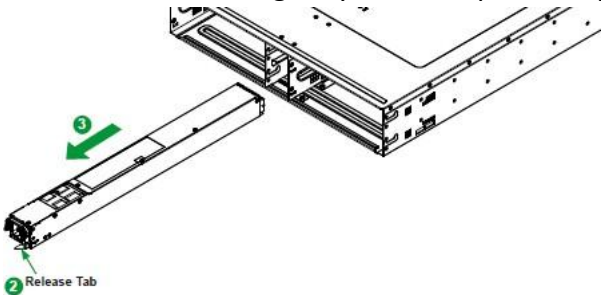


6. Use a cross screwdriver to remove screws and lift off the PCB

No.	Description
2.1	Dummy Tray
2.2	HDD/ SSD
2.3	Hard Drive Enclosure
2.4	HDD/ SSD PCB

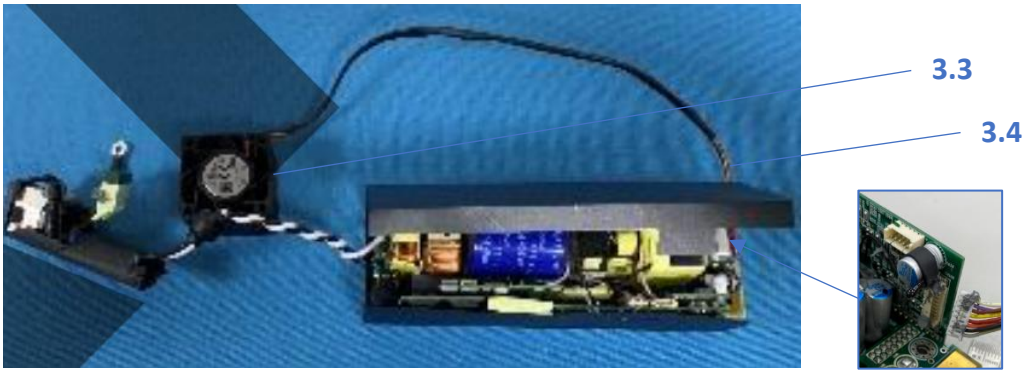
3. Removing Power Supply

1. Press the release tab on the failed power supply
2. Use the handle to gently slide the power supply out the back of the chassis



3. Remove the screw from the enclosure





4. Disconnected to the fan and lift the main board from the chassis by hand



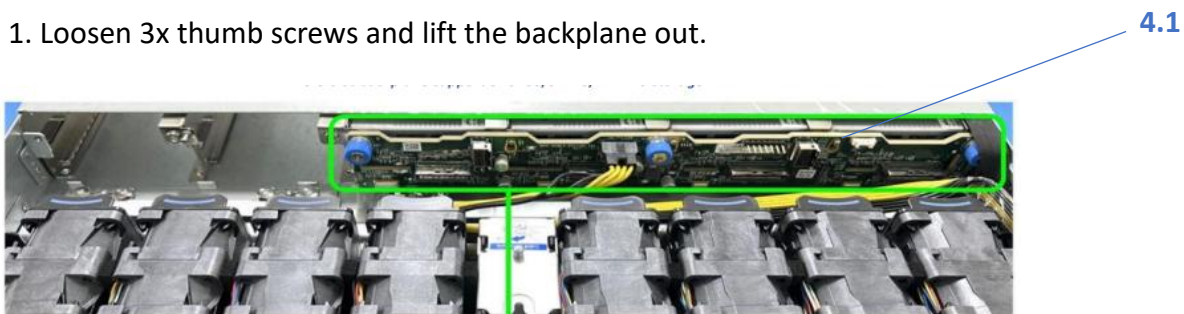
5. Use flathead screwdriver cutting capacitor adhesive and pin solder.



No.	Description
3.1	Power Supply
3.2	Power Enclosure
3.3	Fan
3.4	Fan Cable
3.5	Power Module PCB
3.6	Capacitor

4. Removing Backplane

1. Loosen 3x thumb screws and lift the backplane out.



No.	Description
4.1	Backplane

5. Removing Fan

1. Squeeze the fan tabs and lift the fan housing up and out

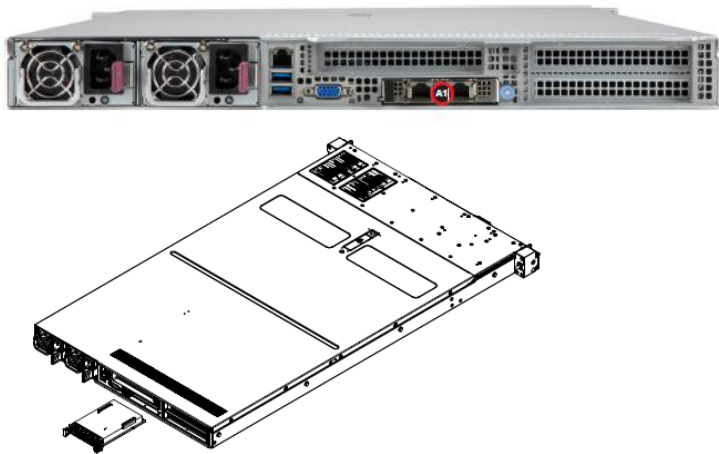
5.1



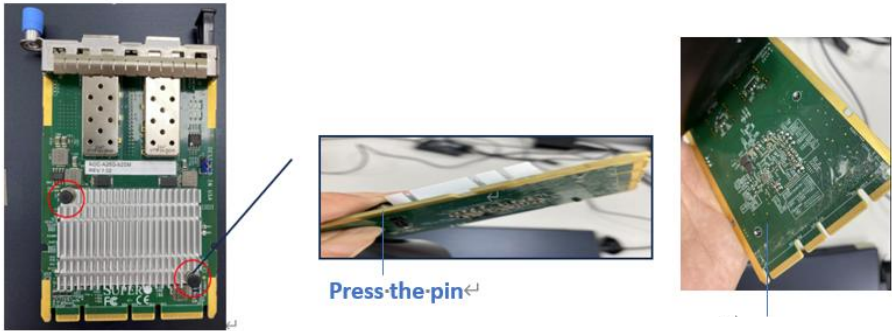
No.	Description
5.1	Cooling Fan

6. Removing AIOM Card/ Add on Card

1. Remove the blank cover plate(A1), unscrewing the thumbscrew.

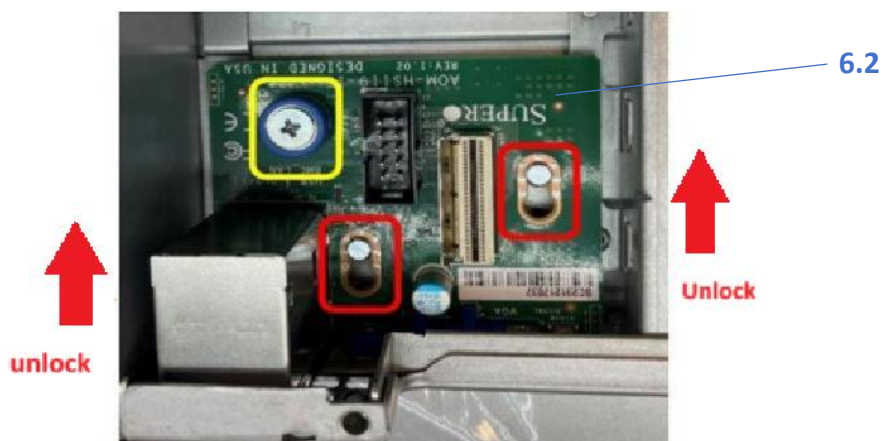


2. Press the pin and remove the pin and take off the PCB from AIOM



6.1

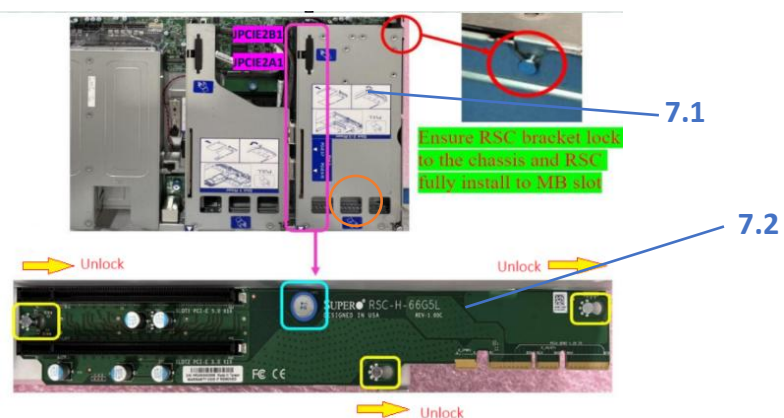
3. Unlock 2x T-pins t (red) and Loosen 1x thumb (yellow) from chassis.



No.	Description
6.1	AIOM PCB
6.2	Add on Card

7. Removing Riser Card and Riser Bracket

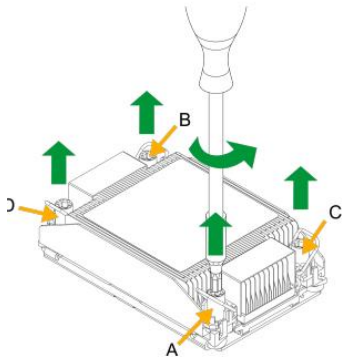
1. Unlock 3x T-pins t (yellow) and loosen 1x thumb (blue) from chassis.



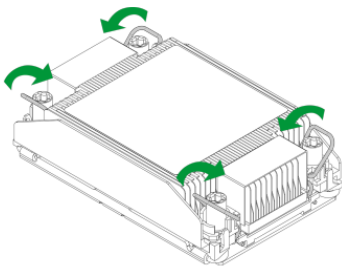
No.	Description
7.1	Riser Bracket
7.2	Riser Card

8. Removing Processor

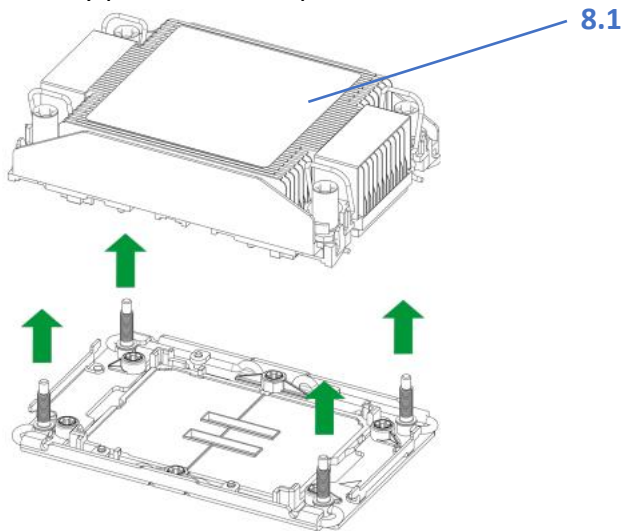
1. Use a screwdriver to loosen the four screws. You can start with any screw, but make.



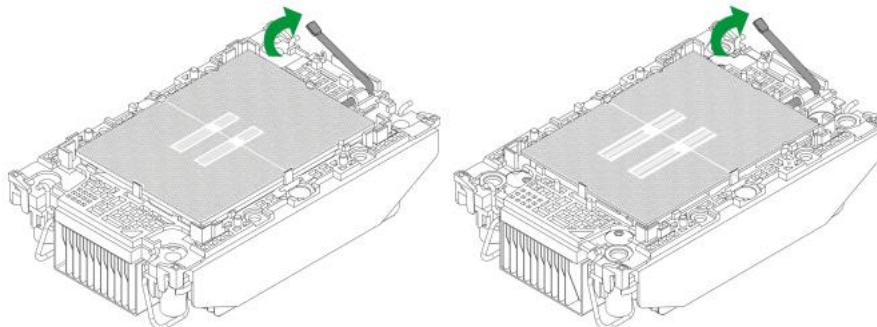
2. Press the four rotating wires inwards to unlatch the PHM from the socket.



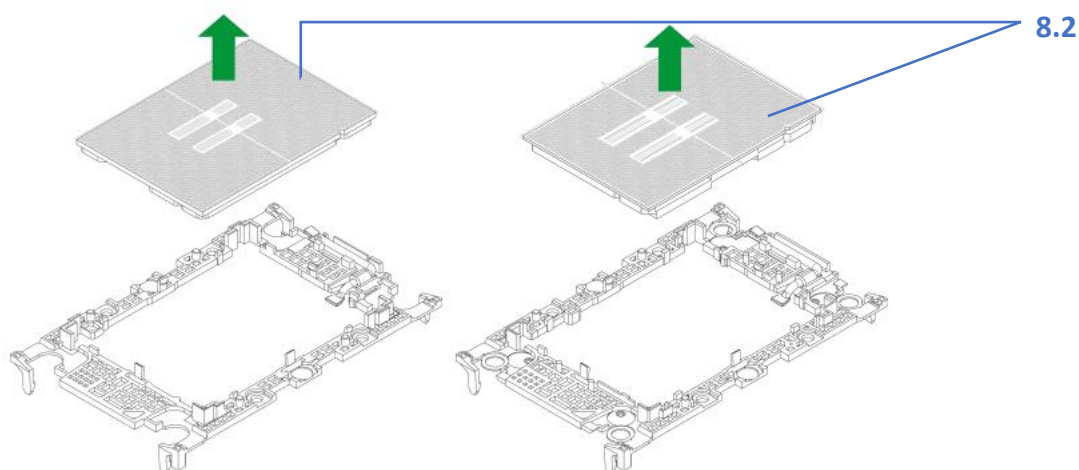
3. Gently pull the PHM upwards to remove it from the CPU socket



4. To remove the processor from the heatsink, gently lift the lever from the processor carrier.

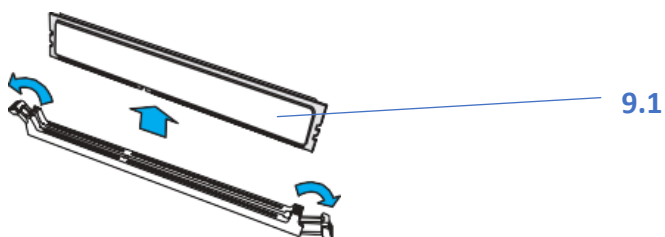


5. To remove the processor, move the lever to its unlocked position and gently remove the processor.



No.	Description
8.1	Heat Sink
<u>8.2</u>	Processor

9. Removing DIMM



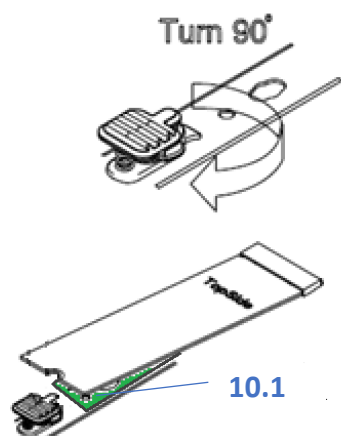
1. Hand press both release tabs on the ends of the DIMM module to unlock it
2. Once the DIMM module is loose, remove it from the memory slot

No.	Description
<u>9.1</u>	DIMM

10. Removing M.2

1. Refer to its layout image and locate the M.2 slot, remove the plastic clip from the hole the M.2 slot form the motherboard

2. Turn the plastic clip by 90° degrees, pick the M.2 up from the connector



No.	Description
10.1	M.2

11. Removing Motherboard

1. Remove screws *7 (pink) and thumb screws *2 (blue), lift out motherboard
2. Push clamp that covers the edge of the battery. When the battery is released, lift it out

No.	Description
11.1	Motherboard
11.2	Battery

