



Disassembly guide

CIARA Horizon D12170 / T12170



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IMPORTANT NOTE

Before proceeding to disassemble your system, CIARA strongly recommends that you remove all your data from the system. To do this, proceed as follows:

Reboot the system and press and hold shift key while rebooting.

Windows will prompt you to restore the OS with TWO (2) options:

- 1- Keep data (the user will be asked to connect a USB Hard Drive to move his data to it)
- 2- Remove all data (which will remove all user data but it will keep the OS)

Just about every part of the CIARA Horizon D12170 / T12170 is recyclable. This guide will show you how to disassemble the following various parts in order to bring them to a recycler:

1. Casing and FPIO
2. Casing fan
3. Power supply
4. Motherboard
5. Motherboard battery
6. Hard disk drive or SSD
7. Optical drive
8. Memory
9. Processor
10. Discrete video controller
11. Power cord

All these components are subject to the EU. Directive 2012/19/EU WEEE Directive, Annex VII and must be treated by the recycler in compliance with the Directive.

Item description	Quantity of components included in the product	PC board that is greater than 10 cm ² (Quantity)
Casing and FPIO	1	Yes (1)
Casing fan	1	N/A
Power supply	1	Yes (1)
Motherboard	1	Yes (1)
Motherboard battery	1	N/A
Hard disk drive or SSD	1	Yes (1)
Optical drive	1	Yes (1)
Memory	2	Yes (2)
Processor	1	No
Discrete video controller	1	Yes (1)
External electrical cable	1	N/A

Note : There are no plastics with brominated flame retardants in the components.

1. Casing and FPIO

1.1 Horizon D12170 casing and FPIO

Recyclable, ROHS compliant,
ABS bezel and SGCC metal sheet.



To remove the FPIO, unscrew these 2 screws, then unplug all cables.

1.2 Horizon T12170 casing and FPIO

Recyclable, ROHS compliant,
ABS bezel and SGCC metal sheet.

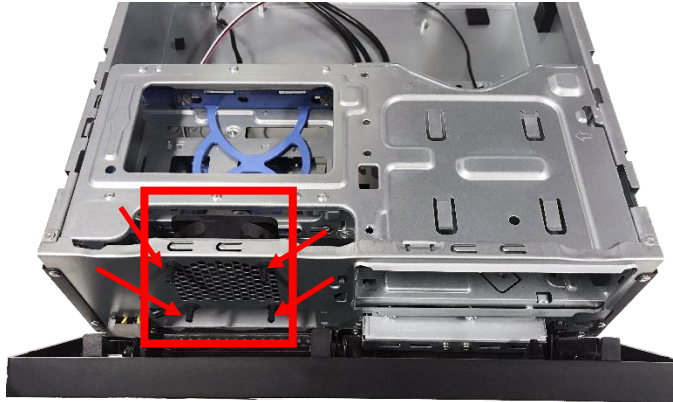


To remove the power and reset buttons, simply unscrew all the screws, then disconnect all the cables.

To remove the front connectors, simply unscrew all the screws, then disconnect all the cables.

2. Casing fan

2.1 Horizon D12170 casing fan



To remove the casing fan, remove the bezel, then unscrew these 4 screws.

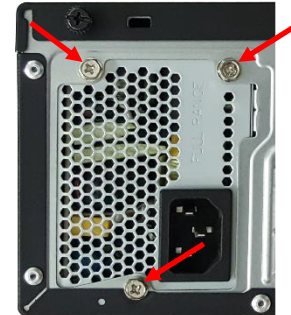
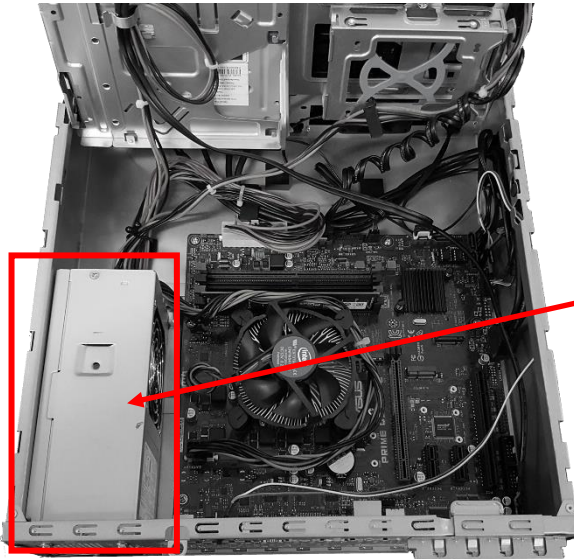
2.2 Horizon T12170 casing fan



To remove the casing fan, unscrew these 2 screws.

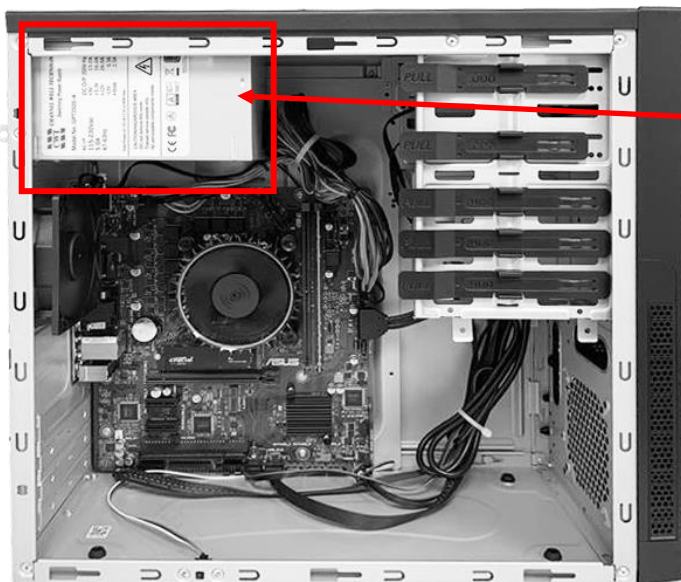
3. Power supply

3.1 Horizon D12170 power supply



To remove the power supply, unscrew these 3 screws, then unplug all cables.

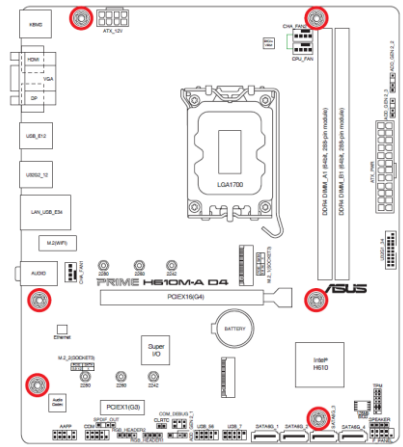
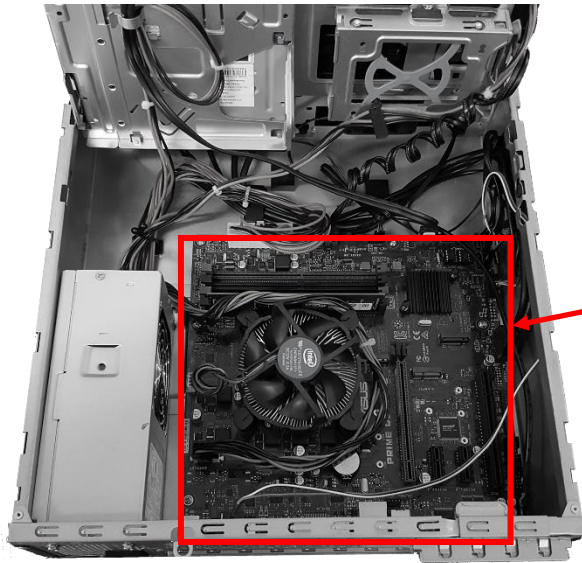
3.2 Horizon T12170 power supply



To remove the power supply, unscrew these 4 screws, then unplug all cables.

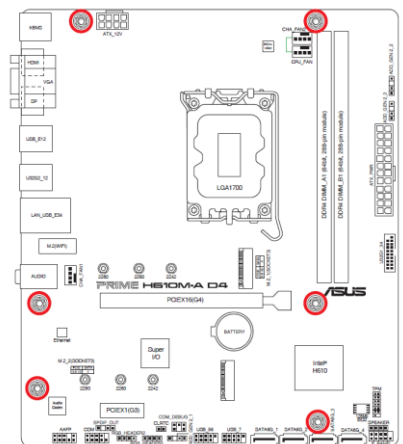
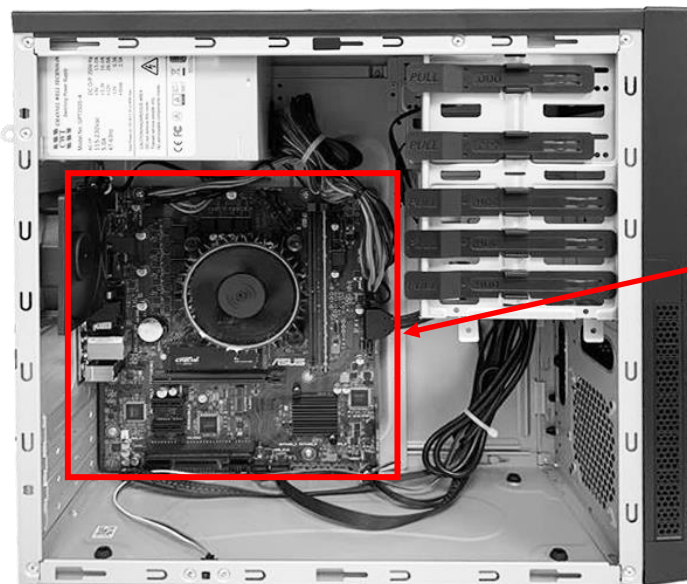
4. Motherboard

4.1 Horizon D12170 motherboard



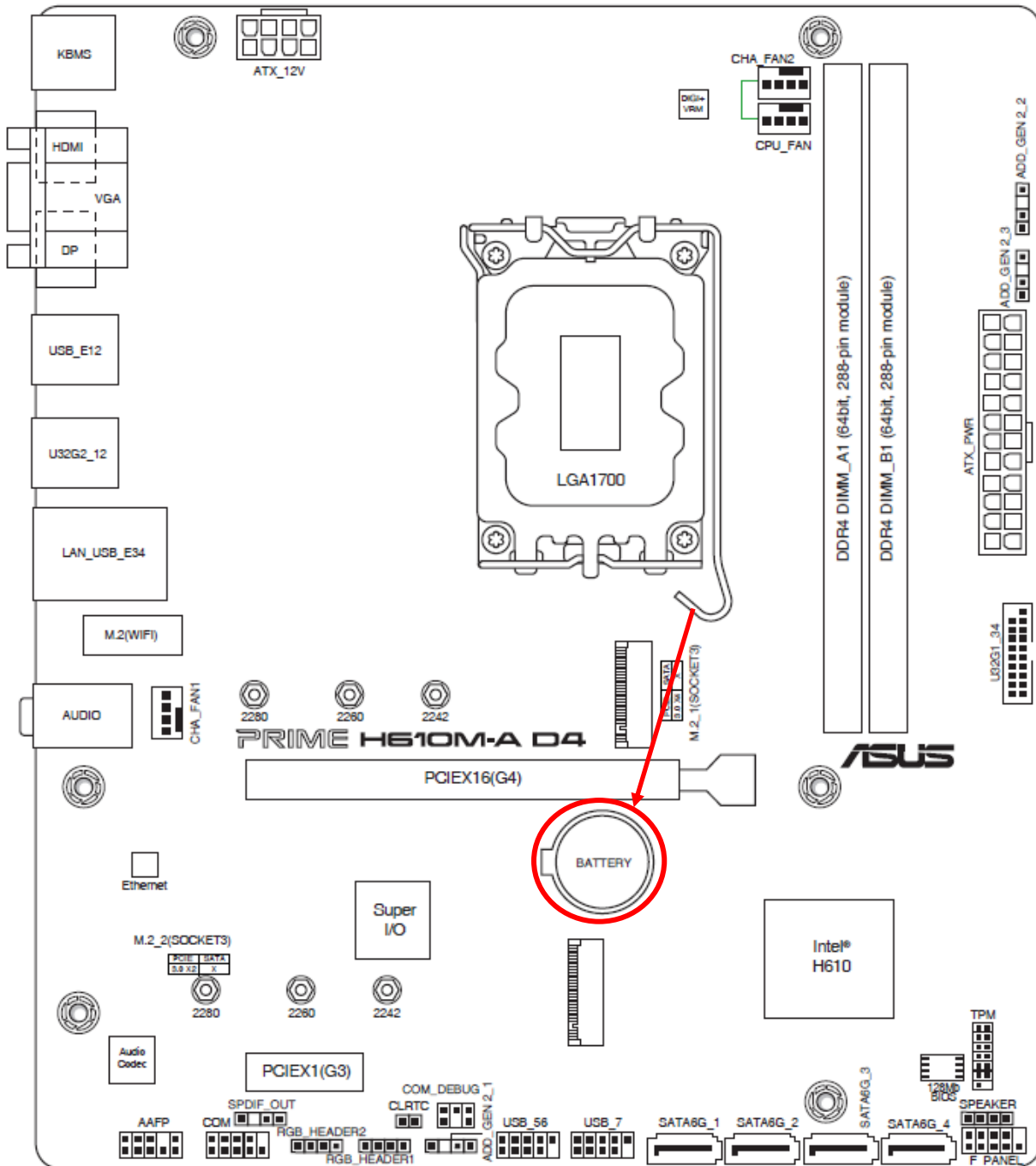
To remove the motherboard, unscrew these 6 screws.

4.2 Horizon T12170 motherboard



To remove the motherboard, unscrew these 6 screws.

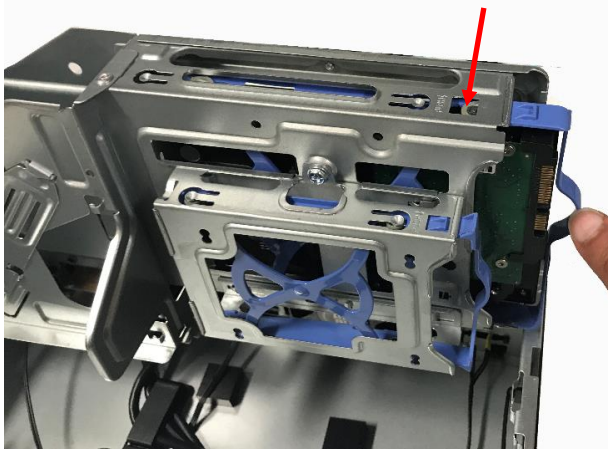
5. Motherboard battery



The motherboard battery requires selective treatment per EU WEEE Directive Annex VII.

6. Hard disk drive or SSD

6.1 Horizon D12170 hard disk drive or SSD



To remove the 3.5" HDD, press the latch and pull out the drive.



To remove the 2.5" HDD or SSD, press the latch and pull out the drive.

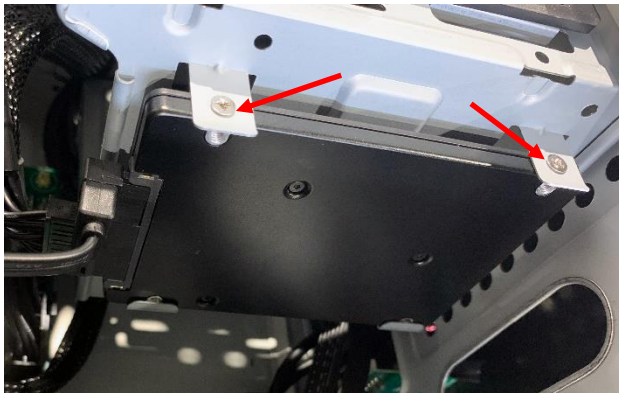


To remove the M.2 SSD, unscrew the retaining screw, lift the drive and pull it out of the slot.

6.2 Horizon T12170 hard disk drive or SSD



To remove the 3.5" HDD, lift the tab and pull out the drive.



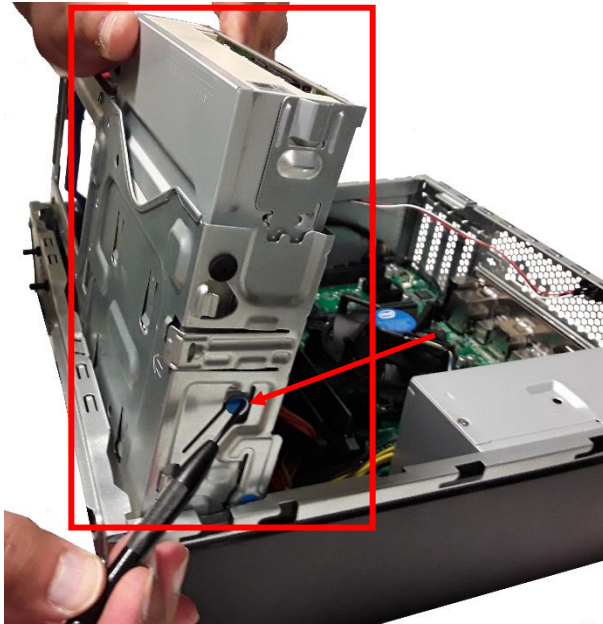
To remove the 2.5" HDD or SSD, unscrew the 2 retaining screws and remove the drive.



To remove the M.2 SSD, unscrew the retaining screw, lift the drive and pull it out of the slot.

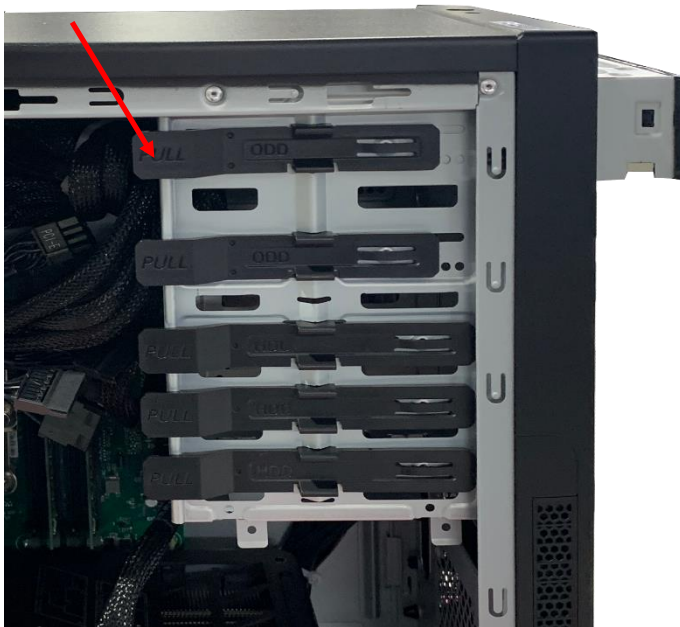
7. Optical drive

7.1 Horizon D12170 optical drive



To remove the optical drive, push the locking latch and pull the drive out.

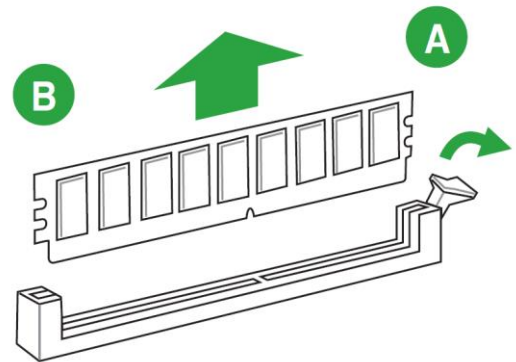
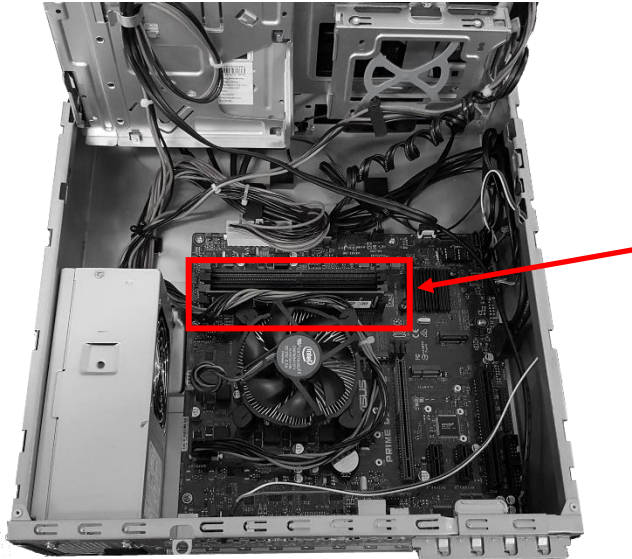
7.2 Horizon T12170 optical drive



To remove the optical drive, lift the locking tab and pull the drive out.

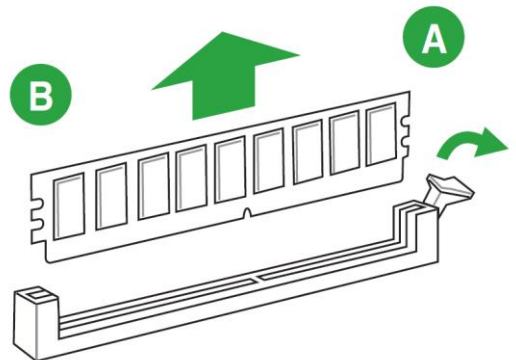
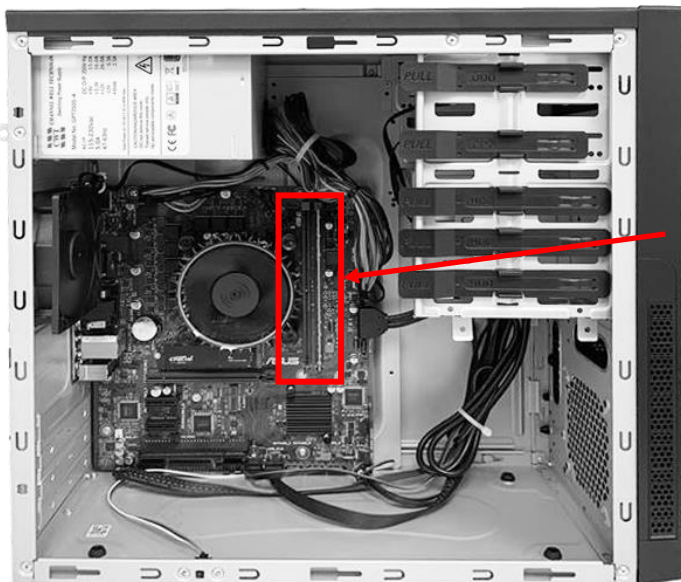
8. Memory

8.1 Horizon D12170 memory



To remove a memory module, flip the latch and remove the module.

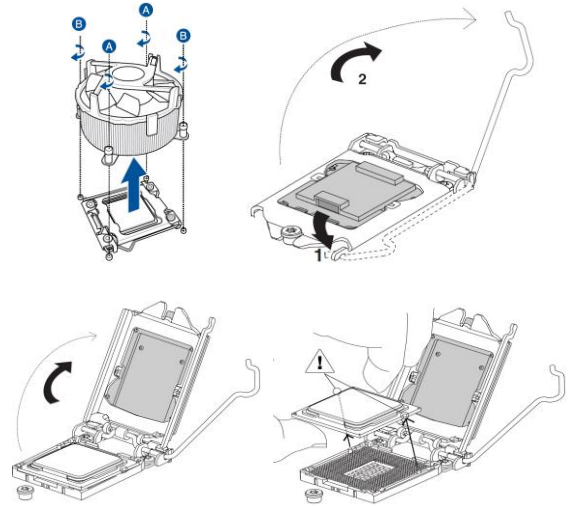
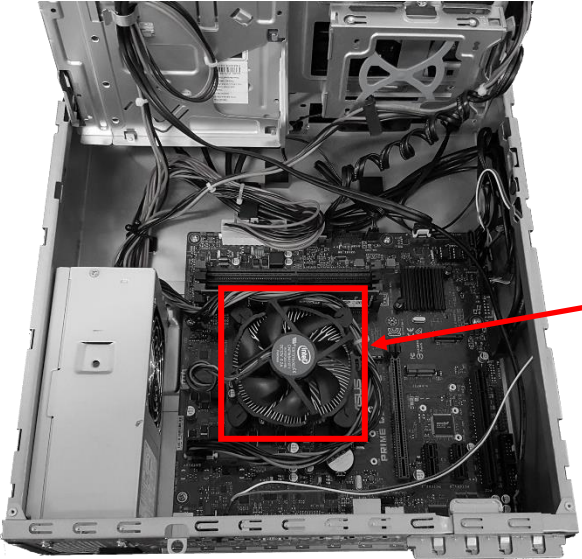
8.2 Horizon T12170 memory



To remove a memory module, flip the latch and remove the module.

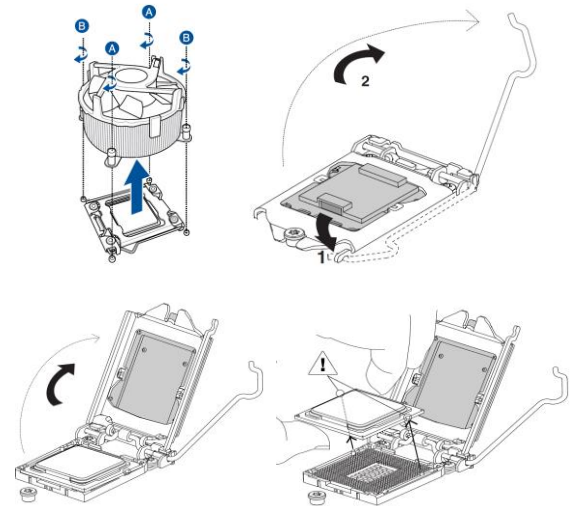
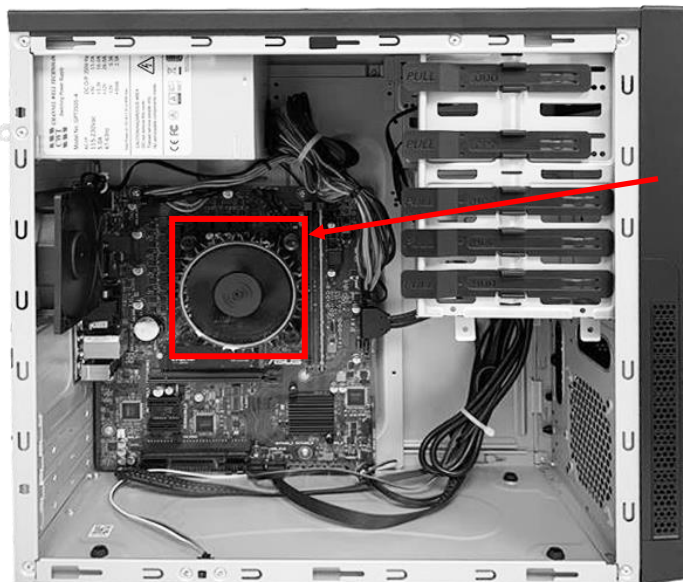
9. Processor

9.1 Horizon D12170 processor



To remove the processor, turn the 4 latches counterclockwise, remove the heatsink, open the lever, lift the cover and remove the processor.

9.2 Horizon T12170 processor



To remove the processor, turn the 4 latches counterclockwise, remove the heatsink, open the lever, lift the cover and remove the processor.

10. Discrete video controller

10.1 Horizon D12170 discrete video controller



To remove the video controller, tilt the cover of the PCI doors.

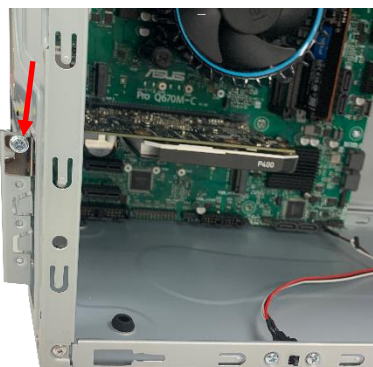


You will then be able to pull out the controller.

10.2 Horizon T12170 discrete video controller



To release the video controller, first remove the cover by unscrewing the 2 thumb screws.



To release the video controller, remove the screw holding it. You will then be able to pull out the controller.

11. Power cord



The power cord is also recyclable but must be disposed of separately in accordance with the EU WEEE Directive Annex VII.

12. Exploded view

12.1 Horizon D12170 exploded view



1	Cover	8	Intrusion switch
2	M.2 Wi-Fi module	9	Optical drive
3	Heatsink	10	Casing
4	Processor	11	Power supply
5	Motherboard	12	Front panel
6	M.2 NVMe SSD drive	13	Fan
7	Memory		

12.2 Horizon D12170 exploded view



1	Left side panel	8	Heatsink
2	Intrusion switch	9	Processor
3	Power supply	10	Motherboard
4	Casing fan	11	Casing
5	Memory	12	Front panel
6	M.2 Wi-Fi module	13	Optical drive
7	M.2 NVMe SSD drive	14	Right side panel