





## Asus AeroActive Cooler 7 Service Manual



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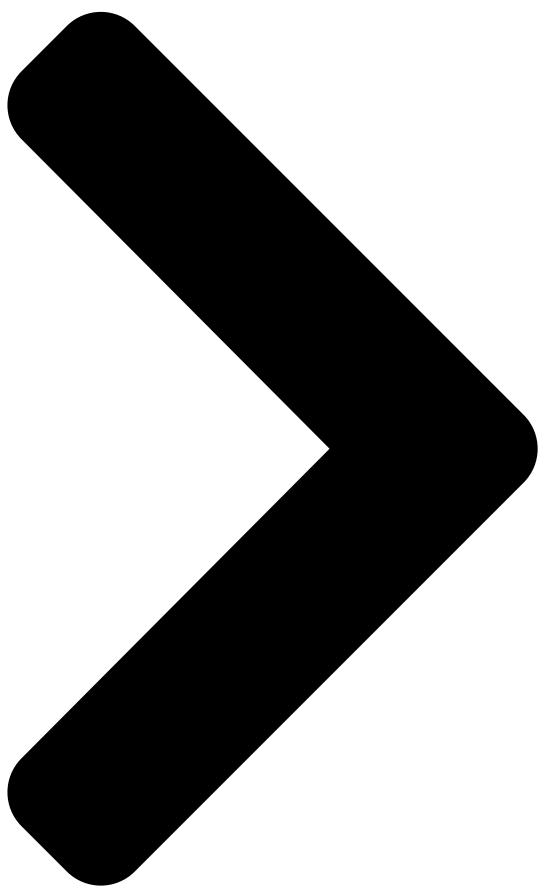
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E22865

First Edition / December 2023

Service Manual

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## Summary of Contents for Asus AeroActive Cooler 7

[Page 1](#) E22865 First Edition / December 2023 Service Manual...

[Page 2](#) Warranty Statement, up to the listed contract price of each product. ASUS will only be responsible for or indemnify you for loss, damages or claims based in contract, tort or infringement under this Warranty Statement.

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### [Page 4: Disclaimer](#)

ASUS parts and correct tools. Please note that the product's water resistance is not guaranteed if it is repaired by someone without the necessary skills.

[Page 5](#) • Ensure that the AeroActive Cooler 7 (AY2301) is powered down. • Disconnect the AC plug from the AeroActive Cooler 7 (AY2301). • Remove all rings, watches and any other metal objects from your hands. • Always wear a grounding strap on your hand to protect the AeroActive Cooler 7 (AY2301) from static discharge.

### [Page 6: Repair Tooling List](#)

Repair Tooling List Phillips #00 0.5mm Pick Tweezer (ESD) Screwdriver Static Bracelet Anti-Static Mat Service Manual...

### [Page 7: Asus Ay2301 Overview](#)

ASUS AY2301 overview Top view Power button cover Cooler button Unlock button Rear view Front view Cooler button Aura light Bottom view Kickstand USB Type-C port 3.5mm headphone

[jack Subwoofer Service Manual...](#)

[Page 8](#) Side view Cooling fins Service Manual...

### [Page 9: Major Components](#)

Major components AY2301 COOLING RUBBER AY2301 KEY RUBBER AY2301 DEVICE LABEL AY2301 USB RUBBER Service Manual...

[Page 10](#) AY2301-1A FANDONGLE AY2301 BASE CONDUCTIVE TAPE BASE ASSY AY2201 FANDONGLE AY2301 FANDONGLE HEATSINK COOLING CHIP THERMAL PAD Service Manual...

[Page 11](#) AY2301-1A FAN AY2301 FAN GASKET FUNCTION\_BD AY2201 SUB\_BD AY2301\_USB\_FPC Service Manual...

[Page 12](#) AY2301 MB KAPTON A AY2201 MB KAPTON 2: AY2301 PCB CONDUCTIVE RING 3: AY2201 FAN GASKET Service Manual...

[Page 13](#) AY2301 FANDONGLE FAN AY2301-1A FANDONGLE HEATSINK ASSY AY2301 PR SPK BOX ASSY Service Manual...

[Page 14](#) AY2301-1A FANDONGLE AY2201 FRAME AD FRAME ASSY AY2301 FAN DONGLE LED LOGO MODULE AY2301-1A FANDONGLE LOGO ASSY Service Manual...

[Page 15](#) AY2301 LED\_KEY\_L\_FPC AY2301 LED\_KEY\_R\_FPC AY2301 KEY FPC L KAPTON (For solved L KEY and LED abnormalities) Service Manual...

[Page 16](#) AY2301 LOGO AD AY2301 TUNNEL RUBBER AY2301-1A FANDONGLE AY2301-1A FANDONGLE LOGO COVER ASSY COVER Service Manual...

[Page 17](#) SCREW M1.4\*2.5L (2.8,0.4) (K) #0 Service Manual...

[Page 18](#) SCREW M1.4\*1.8L SCREW M1.4\*6.5L (2.7,0.5)K #0 ROG SEALED LABEL FOR SCREW M1.4\*4.5L (4.5,0.5) (K) #0 PHONE Service Manual...

### [Page 19: Disassembly](#)

Disassembly Caution: ASUS hereby provides a basic instruction for the disassembly of ASUS products, i.e. to remove components and materials that require selective treatments, which are defined by Annex II of the European Union (EU) Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/ EC.

[Page 20](#) - components containing refractory ceramic fibers as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labelling of dangerous substances, - components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health...

[Page 21](#) CAUTION: Before disassembling the AY2301 FAN, be sure to set up an anti- static mat and wear a static bracelet. Tool: #5 Anti-Static Mat #4 Static Bracelet Press the top button to release the top holder, then use your fingers to push the top plastic cushion and remove it. Top Button Top Plastic Cushion Service Manual...

[Page 22](#) Continue pushing the cushion, and then use the tweezer to completely remove the top plastic cushion from the top holder. Tool: #3 Tweezer (ESD) Use the tweezer to remove the bottom plastic cushion. Bottom Plastic Cushion Service Manual...

[Page 23](#) Remove the plastic sheet and the device label from the fan. Plastic Sheet Device Label Loosen the screws (x5) and then use a pick to remove the Mid Cover Case from the device edge. Mid Cover Case Service Manual...

[Page 24](#) Tool: #1 Phillips #00 Screwdriver #2 0.5mm Pick Remove the Mid Cover Case. Remove the yellow Polyimide tapes and unplug the Logo FPC, Key FPCs, SPKR Cable, Fan Cable, and Cooling Chip Cable from the mainboard. Service Manual...

[Page 25](#) Cooling Chip Cable Logo FPC Fan Cable Key FPC Key FPC SPKR Cable Remove the USB FPC BD. USB FPC BD Service Manual...

[Page 26](#) Use a pick to remove the Mid Thermal Module from the Front Case. Front Case Mid Thermal Module 10. Loosen the screws (x2) to remove the mainboard from Mid Thermal Module. Service Manual...

[Page 27](#) 11. Loosen the screws (x4) to separate the Front Cover and Fan Thermal Module from the Mid Thermal Module. Front Cover Fan Thermal Module 12. Loosen the screws (x3) to separate the Fan from the Fan Thermal Module. Fan Thermal Module Service Manual...

[Page 28](#) 13. Loosen the screws (x2) to separate the SPKR Module from the Fan Thermal Module. SPKR Module Service Manual...

This manual is also suitable for:

Ay2301