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Emaks C41N2208

Emaks Extended 74Wh Battery Upgrade Kit for ASUS ROG Ally (2023) - Installation and User Manual

Model: C41N2208

1. Introduction

This manual provides detailed instructions for the installation and use of the Emaks 74Wh Extended Battery Upgrade Kit for the ASUS ROG Ally (2023) gaming handheld. This battery is designed to replace the original 40Wh battery, offering increased capacity for extended usage.
Compatibility: This battery is specifically designed for ASUS ROG Ally (2023) models RC71L, PC71L, and NR2301L. It replaces the original ASUS C41N2208 battery.

2. Safety Information

WARNING: Lithium-ion batteries can be hazardous if mishandled. Please read and follow all safety instructions carefully.

- Do not disassemble, puncture, or modify the battery.
- Avoid exposing the battery to extreme temperatures, direct sunlight, or fire.
- Do not short-circuit the battery terminals.
- Keep the battery away from water or other liquids.
- If the battery appears damaged, swollen, or leaks, discontinue use immediately and dispose of it properly.
- Only use the provided tools for installation.
- After installation, it is recommended to check your system for the Armoury Crate app. This application may cause system conflicts and affect proper battery functionality. Consider uninstalling or updating it if issues arise.

This product includes multiple built-in protections against overheating, short circuit, electronic overload, overcharge, and comprehensive protection to ensure safety.

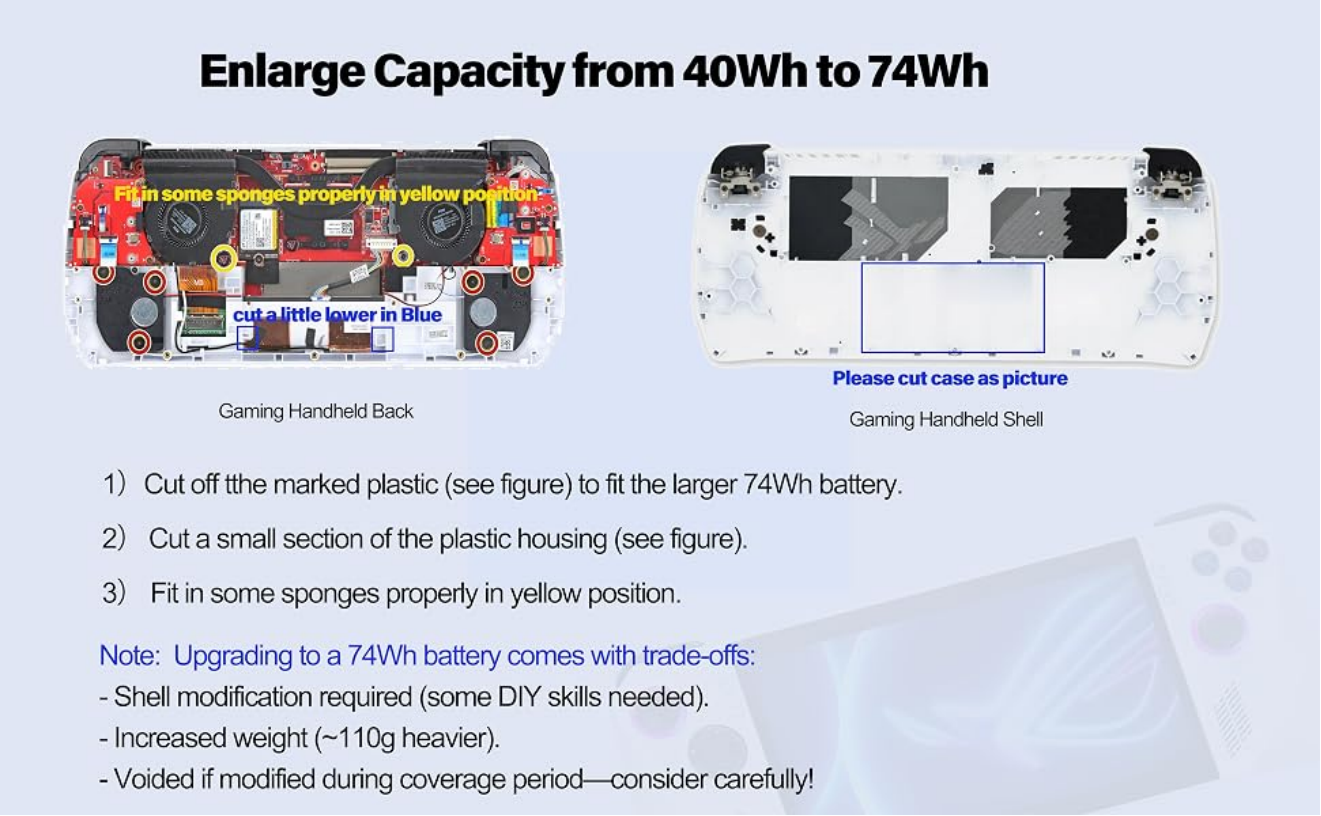


Image: The Emaks 74Wh battery highlighting its multiple security protections, including safeguards against overheating, short circuits, electronic issues, overcharge, and comprehensive protection.

3. Package Contents

Verify that all items are present in your package:

- 1x Emaks 74Wh Extended Battery (Model: C41N2208)
- 1x Set of Screwdrivers
- 1x Prying Tool (Plastic Pick)
- 1x Wire Cutter/Nipper Tool
- 1x Instruction Guide (this manual)



Image: The Emaks 74Wh extended battery alongside the included installation tools: two screwdrivers, a plastic prying tool, and a wire cutter.

4. Setup and Installation

The installation of this extended battery requires careful attention and some modification to the device's internal casing. Proceed with caution.

Required Tools (Included):

- Screwdrivers
- Prying Tool
- Wire Cutter/Nipper

Installation Steps:

1. **Power Off Device:** Ensure your ASUS ROG Ally is completely powered off and disconnected from any power source.
2. **Remove Back Cover:** Using the appropriate screwdriver, carefully remove the screws securing the back cover of your ROG Ally. Use the prying tool to gently separate and remove the back cover.
3. **Disconnect Original Battery:** Locate the original battery and carefully disconnect its cable from the motherboard.
4. **Remove Original Battery:** Remove any adhesive or screws holding the original battery in place and carefully lift it out.
5. **Prepare Casing for New Battery:** The 74Wh extended battery is larger than the original 40Wh battery. You will need to modify the internal plastic casing of your ROG Ally to accommodate it.
    - Identify the marked plastic areas that need to be cut or trimmed. Refer to the image below for guidance.
    - Use the included wire cutter/nipper tool to carefully cut off the marked plastic sections.
    - Cut a small section of the plastic housing as indicated in the diagram.



Image: A diagram illustrating the necessary modifications to the ASUS ROG Ally's internal casing to fit the larger 74Wh battery. It shows specific plastic areas to be cut and where to place sponges.

Note on Modifications:

- Shell modification is required and involves DIY skills.
- The upgraded battery is approximately 110g heavier than the original.
- Modifying the device may void its original warranty. Consider this carefully before proceeding.

6. **Install New Battery:** Carefully place the Emaks 74Wh extended battery into the modified compartment. Ensure it fits securely.
7. **Connect New Battery:** Connect the new battery's cable to the motherboard. Ensure the connection is firm and properly seated. The battery features gold-plated connector points for stable current transport.
8. **Secure Battery:** If applicable, use any provided adhesive or secure clasps to hold the battery in place.
9. **Replace Back Cover:** Carefully reattach the back cover and secure it with the screws.

5. Operating Instructions

Initial Use and Calibration:

1. After installation, fully charge the battery to 100%.
2. Use the device until the battery is completely drained and the device shuts down.
3. Fully charge the battery again without interruption.
4. Repeat this charge/discharge cycle 2-3 times to calibrate the new battery for optimal performance and accurate battery percentage readings.

Extended Gaming Sessions:

The 74Wh capacity provides significantly longer gaming sessions compared to the original 40Wh battery, delivering approximately 85% more power.



Image: The Emaks 74Wh battery, highlighting its capacity of 74Wh and 4650mAh, along with its physical dimensions.

6. Maintenance

- **Regular Charging:** Avoid letting the battery completely drain frequently. For optimal longevity, try to keep the charge between 20% and 80%.
- **Storage:** If storing the device for an extended period, charge the battery to about 50% before storage. Store in a cool, dry place.
- **Cleaning:** Keep the device and battery compartment free from dust and debris.

7. Troubleshooting

Common Issues and Solutions:

Issue	Possible Cause	Solution

Issue	Possible Cause	Solution
Battery percentage inaccurate or always shows "plugged in"	Battery controller issue or calibration needed.	Perform 2-3 full charge/discharge cycles for calibration. If issue persists, contact support.
Device randomly shuts down or restarts	Armoury Crate app conflict, unstable battery connection, or defective battery.	Uninstall or update Armoury Crate. Recheck battery connection. Perform calibration. If issues persist, contact support.
Device does not power on after installation	Battery not properly connected or insufficient initial charge.	Ensure battery cable is securely connected. Charge the device for at least 30 minutes before attempting to power on.
Battery not meeting expected capacity	Initial usage, calibration needed, or environmental factors.	Perform 2-3 full charge/discharge cycles. Ensure device settings are optimized for battery life.

8. Specifications

Feature	Detail
Brand	Emaks
Model Number	C41N2208
Battery Type	Li-Ion (Lithium Ion)
Voltage	15.48V
Capacity	74Wh / 4780mAh
Dimensions (Approx.)	11.9 x 6.4 x 1.1 inches (Package)
Item Weight (Approx.)	13.7 ounces (388g)
Compatibility	ASUS ROG Ally (2023) RC71L/PC71L/NR2301L



Image: A summary of the Emaks battery's product parameters, including brand, model, capacity, size, weight, and condition.

9. Warranty and Support

Emaks is an officially registered U.S. trademark (87249070), ensuring reliable brand assurance.

- **Warranty:** This product comes with a 12-month warranty.
- **Money Return:** A 60-day money return policy is available.
- **Customer Service:** For support inquiries, please contact customer service. Responses are typically provided within 24 hours.

For further assistance, you may visit the Emaks Store on Amazon.

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