ASUS TUF GAMING LC II 360 ARGB

ASUS TUF Gaming LC II 360 ARGB All-in-One Liquid CPU Cooler Instruction Manual

1. Product Overview

The ASUS TUF Gaming LC II 360 ARGB is an all-in-one liquid CPU cooler designed for high-performance computing. It features reinforced sleeved tubing, a decoupled low-noise pump, and upgraded 120mm ARGB radiator fans for efficient cooling and vibrant lighting effects. This cooler is compatible with a wide range of Intel and AMD CPU sockets, ensuring broad system integration.

- **Enhanced Radiator Fans:** Upgraded TUF Gaming radiator fans with brighter ARGB lighting and grooved fins for improved airflow and reduced noise levels.
- **Quiet Pump Design:** Features a decoupled low-noise pump and an ARGB pump cover for silent operation and aesthetic appeal.
- **Durable Tubing:** Reinforced, sleeved 400mm tubing provides increased durability and flexible chassis compatibility.
- **Broad Compatibility:** Supports Intel LGA 1700, 1200, 115x, and AMD AM5 and AM4 sockets.
- **Extended Warranty:** Backed by an industry-leading 6-year worldwide warranty, highlighting its premium durability.



Figure 1: ASUS TUF Gaming LC II 360 ARGB Cooler at a Glance. This image displays the main components of the cooler, including the radiator with three fans, the pump block with its ARGB cover, and the reinforced tubing connecting them.



Figure 2: Optimized Fan Design for ASUS TUF Gaming LC II 360 ARGB. This image highlights the design of a single 120mm ARGB fan, detailing its specifications such as 2000 RPM fan speed, 29 dB(A) fan noise, 3.0mm H_2O air pressure, and 67 CFM airflow.

2. What's in the Box

Upon unboxing your ASUS TUF Gaming LC II 360 ARGB cooler, please verify that all components listed below are present and in good condition.

- TUF Gaming LC II 360 ARGB Liquid CPU Cooler (Radiator with integrated pump and tubing)
- 3x TUF Gaming 120mm ARGB Radiator Fans
- Accessory Pack of Screws and Brackets (for Intel and AMD sockets)
- User Manual
- TUF Gaming LC II ARGB Series Stickers



Figure 3: Contents of the ASUS TUF Gaming LC II 360 ARGB box. This image shows the cooler's retail packaging and all included accessories laid out, including the 360mm radiator, pump, three 120mm fans, mounting hardware, and documentation.

3. Setup and Installation

Before beginning installation, ensure your system is powered off and disconnected from the power source. Refer to your motherboard's manual for specific fan and pump header locations.

3.1. Prepare Your Motherboard

- Identify the correct mounting brackets for your CPU socket (Intel LGA 1700, 1200, 115x, or AMD AM5, AM4).
- Install the backplate (if required by your socket type) and standoffs onto your motherboard.

3.2. Mount the Radiator and Fans

- Attach the three 120mm ARGB fans to the radiator using the provided screws. Ensure the fan airflow direction

is appropriate for your chassis (typically exhausting air out of the case).

- Mount the radiator assembly to an available 360mm fan mount location in your PC case (e.g., top, front).

3.3. Install the Pump Block

- The pump block comes with pre-applied thermal paste. If you prefer to use your own, carefully clean off the pre-applied paste with isopropyl alcohol.
- Carefully place the pump block onto your CPU, aligning it with the installed standoffs.
- Secure the pump block using the appropriate thumb screws or retention mechanism for your socket type. Tighten screws in a diagonal pattern until snug.

3.4. Cable Connections

- Connect the pump power cable to the dedicated AIO_PUMP or CPU_OPT header on your motherboard. If neither is available, use a CPU_FAN header.
- Connect the ARGB cables from the fans and pump cover to an available 3-pin 5V ARGB header on your motherboard. If multiple headers are needed, use an ARGB splitter (not included).
- Connect the fan PWM cables to the CPU_FAN header or other available fan headers on your motherboard.

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Video 1: TUF GAMING LC II 360 ARGB E-tail. This video provides a visual guide to the features and installation process of the ASUS TUF Gaming LC II 360 ARGB cooler, demonstrating its components and how they fit into a PC build.

4. Operating Instructions

Once installed, the ASUS TUF Gaming LC II 360 ARGB cooler operates automatically based on your motherboard's fan control settings. For optimal performance and customization, utilize ASUS's software.

4.1. Fan and Pump Control

- The radiator fans and pump speed can be controlled via your motherboard's BIOS/UEFI settings or through ASUS Armoury Crate software.
- It is recommended to set the pump to run at 100% speed for maximum cooling efficiency.
- Adjust fan curves in the BIOS or Armoury Crate to balance cooling performance and noise levels according to your preference.

4.2. ARGB Lighting Customization (Aura Sync)

- The ARGB lighting on the fans and pump cover is compatible with ASUS Aura Sync.
- Download and install ASUS Armoury Crate software from the official ASUS website.
- Within Armoury Crate, navigate to the Aura Sync section to synchronize lighting effects with other compatible components or customize individual lighting zones.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your liquid CPU cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning to prevent damage.
- **Tubing Inspection:** Visually inspect the tubing and connections for any signs of leaks, kinks, or damage. Address any issues immediately.

- **Thermal Paste:** While the cooler comes with pre-applied thermal paste, if you remove the pump block for any reason, reapply a fresh layer of high-quality thermal paste before reinstallation.

6. Troubleshooting

If you encounter issues with your ASUS TUF Gaming LC II 360 ARGB cooler, refer to the following common troubleshooting steps.

6.1. High CPU Temperatures

- **Check Pump Connection:** Ensure the pump power cable is securely connected to the correct motherboard header (AIO_PUMP, CPU_OPT, or CPU_FAN) and receiving power.
- **Verify Fan Operation:** Confirm that all radiator fans are spinning correctly. Check their connections to the motherboard.
- **Thermal Paste Contact:** Ensure the pump block has proper contact with the CPU. Re-seat the cooler and reapply thermal paste if necessary.
- **Airflow:** Check for obstructions to airflow through the radiator and ensure case fans are configured for optimal ventilation.

6.2. Fans Not Spinning or ARGB Not Working

- **Power Connections:** Verify all fan PWM and ARGB cables are correctly connected to the motherboard headers.
- **Software Issues:** Ensure ASUS Armoury Crate is installed and updated. Check lighting settings within the software.
- **Header Type:** Confirm ARGB cables are connected to 3-pin 5V ARGB headers, not 4-pin 12V RGB headers, as this can cause damage.

6.3. Unusual Noises

- **Fan Noise:** Adjust fan speeds in BIOS or Armoury Crate. Check for loose cables or obstructions hitting fan blades.
- **Pump Noise:** A slight hum from the pump is normal. Excessive gurgling might indicate air bubbles; gently tilt your PC case to help dislodge them. Ensure the pump is running at full speed.

7. Specifications

Detailed technical specifications for the ASUS TUF Gaming LC II 360 ARGB Liquid CPU Cooler.

Feature	Specification
Brand	ASUS
Model Number	TUF GAMING LC II 360 ARGB
Cooling Method	Water
Compatible Devices	Desktop
Noise Level	29 Decibels
Material	Aluminum, Copper, Plastic, Rubber

Feature	Specification
Maximum Rotational Speed	2372 RPM
Power Connector Type	2-Pin
Wattage	3 watts
Item Weight	5.15 pounds
Package Dimensions	18.5 x 9.29 x 5.67 inches
UPC	197105267367

8. Warranty and Support

The ASUS TUF Gaming LC II 360 ARGB All-in-One Liquid CPU Cooler is covered by a comprehensive 6-year worldwide warranty, demonstrating ASUS's commitment to quality and durability. For warranty claims, technical support, or further assistance, please visit the official ASUS support website or contact their customer service.

- **Warranty Period:** 6 Years from the date of purchase.
- **Online Support:** Visit www.asus.com/support/ for drivers, FAQs, and troubleshooting guides.
- **Contact Support:** Refer to the ASUS website for regional contact information and service centers.