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Cooler Master MB600L2-KNNN-S00

Cooler Master MasterBox MB600L V2 PC Case User Manual

Model: MB600L2-KNNN-S00

INTRODUCTION

The Cooler Master MasterBox MB600L V2 is a mid-tower PC case designed for optimal performance and aesthetics. It features a brushed-steel finish and a minimalistic design, suitable for both gaming setups and professional workspaces. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your MasterBox MB600L V2 PC case.

This case offers enhanced versatility with extensive ventilation options and support for various radiator configurations, accommodating up to six case fans for superior cooling. It is compatible with ATX, Micro-ATX, and Mini-ITX motherboards and provides ample space for high-performance components.

SETUP AND INSTALLATION

Follow these steps to set up your Cooler Master MasterBox MB600L V2 PC case and install your components.

1. Unboxing and Initial Inspection

Carefully remove the PC case from its packaging. Inspect the case for any signs of damage during transit. Ensure all accessories (screws, ties, manual) are present.



Image: Front-angled view of the Cooler Master MasterBox MB600L V2 PC case, showcasing its brushed steel finish and side mesh intakes.

2. Accessing the Interior

Remove the side panels to gain access to the interior of the case. Depending on your model, this may involve unscrewing thumbscrews at the rear and sliding the panels off.



Image: Internal view of the PC case from an angle, showing the motherboard tray, fan mounts, and PSU shroud.

3. Motherboard Installation

Install the necessary standoffs for your motherboard form factor (ATX, Micro-ATX, Mini-ITX). Carefully place your motherboard onto the standoffs and secure it with screws.



Image: Front internal view of the PC case, highlighting the spacious interior for component installation, including the motherboard area and drive bays.

4. Power Supply Unit (PSU) Installation

Mount your PSU in the dedicated compartment at the bottom of the case. Ensure proper orientation for airflow. The breathable PSU shroud allows for inverted or passive cooling builds.

5. Storage Drive Installation

Install your 2.5" SSDs and 3.5" HDDs into the designated drive bays. The removable HDD cage under the PSU shroud provides flexibility for longer PSUs or alternative build configurations.

6. Graphics Card (GPU) and Expansion Card Installation

Remove the necessary PCIe slot covers and install your graphics card and any other expansion cards. Secure them with

screws.

7. Cable Management

Utilize the 18.5mm of cable routing space behind the motherboard tray to organize and hide cables. This improves airflow and aesthetics.

8. Fan and Radiator Installation

The case supports up to 6 case fans. Install fans in the front, top, and rear positions as desired. Radiators can be mounted in the front (up to 280mm), top (up to 240mm), and rear (120mm).



Image: Internal view of the PC case from the opposite angle, detailing the rear fan mount and the layout for various components.

9. Connecting Front I/O

Connect the front I/O panel cables (USB 3.2 Gen1 Type-A, 3.5mm Headset Jack, power, reset, LED) to their respective headers on your motherboard.



Image: Direct front view of the Cooler Master MasterBox MB600L V2, highlighting the brushed steel panel and the subtle Cooler Master hexagonal logo.

OPERATING YOUR PC CASE

The MasterBox MB600L V2 is designed for optimal performance and user convenience.

Airflow Configuration

The case features enhanced airflow with top panel ventilation and enlarged air inlets on either side of the front panel. For

best cooling performance, ensure a balanced intake and exhaust fan configuration. The included rear 120mm fan acts as an exhaust.

Component Compatibility

- **Motherboard Support:** ATX, Micro-ATX, Mini-ITX
- **CPU Cooler Clearance:** Up to 161mm
- **Graphics Card (GFX/GPU) Clearance:** Up to 350mm
- **PSU Clearance:** Up to 160mm (with HDD cage)
- **Radiator Support:**
 - Front: Up to 280mm
 - Top: Up to 240mm
 - Rear: 120mm

Front I/O Panel

The top I/O panel provides convenient access to:

- 2 x USB 3.2 Gen1 Type-A ports (5Gbps)
- 1 x 3.5mm Headset Jack (Audio + Mic)
- Power Button
- Reset Button (if connected)

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your PC case and its components.

Dust Filter Cleaning

The MasterBox MB600L V2 includes front, top, and bottom dust filters. These filters prevent dust buildup inside your system. It is recommended to clean them regularly (e.g., monthly) by removing them and gently brushing or washing off accumulated dust. Ensure they are completely dry before re-installing.

General Cleaning

Wipe down the exterior of the case with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish. For internal cleaning, use compressed air to remove dust from components and fan blades.

TROUBLESHOOTING

This section addresses common issues you might encounter.

PC Not Powering On

- **Check PSU Connection:** Ensure the power supply is properly connected to the wall outlet and the motherboard.
- **Front Panel Connections:** Verify that the power button cable from the front I/O panel is correctly connected to the motherboard's front panel header. Refer to your motherboard manual for the correct pinout.
- **PSU Switch:** Make sure the power switch on the back of the PSU is in the "On" position.

Poor Airflow or Overheating

- **Dust Filters:** Clean all dust filters regularly to ensure unrestricted airflow.
- **Fan Orientation:** Verify that your case fans are oriented correctly (intake fans pulling air in, exhaust fans pushing air out).
- **Cable Management:** Poor cable management can obstruct airflow. Re-route cables to minimize obstruction.
- **Component Clearance:** Ensure that large components like CPU coolers or GPUs are not directly blocking airflow paths.

Front USB Ports Not Working

- **Motherboard Connection:** Ensure the USB 3.2 Gen1 cable from the front I/O panel is securely connected to the corresponding header on your motherboard.
- **Driver Issues:** Check your operating system's device manager for any USB driver issues.

SPECIFICATIONS

Detailed technical specifications for the Cooler Master MasterBox MB600L V2 PC Case.

Feature	Detail
Model Name	MasterBox MB600L V2
Item Model Number	MB600L2-KNNN-S00
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro-ATX, Mini-ITX
Material	Alloy Steel
Dimensions (LxWxH)	15.96 x 8.03 x 17.93 inches (405.4 x 204 x 455.4 mm)
Item Weight	10.12 pounds (4.59 kg)
CPU Cooler Clearance	Up to 161mm
GPU Clearance	Up to 350mm
PSU Clearance	Up to 160mm (with HDD cage)
Cooling Method	Air
Pre-installed Fans	1 x 120mm Rear Fan
Fan Support	Front: 2x 120mm/140mm, Top: 2x 120mm/140mm, Rear: 1x 120mm
Radiator Support	Front: 120mm, 140mm, 240mm, 280mm; Top: 120mm, 240mm; Rear: 120mm
Drive Bays	2.5" / 3.5" Combo x2, 2.5" SSD x2
I/O Panel	2x USB 3.2 Gen1 Type-A, 1x 3.5mm Headset Jack (Audio+Mic)
Dust Filters	Front, Top, Bottom

WARRANTY AND SUPPORT

Warranty Information

The Cooler Master MasterBox MB600L V2 PC case comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official Cooler Master website or contact their customer support.

Return Policy

If purchased through Amazon, the product typically has a 30-day return policy for refund or replacement, subject to Amazon's terms and conditions.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Cooler Master customer support through their official website:

www.coolermaster.com/support/

Please have your product model number (MB600L2-KNNN-S00) and proof of purchase ready when contacting support.

