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› JOYJOM MATX Case Mini PC Instruction Manual

JOYJOM MATX Case

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Model: MATX Case

1. INTRODUCTION

The JOYJOM MATX Case is a compact and versatile enclosure designed for building small form factor desktop computers. It supports Micro ATX, MATX, DTX, and ITX motherboards, offering flexibility for various PC builds. This manual provides essential information for setting up, operating, and maintaining your PC case.



Figure 1: JOYJOM MATX Case Mini PC (Black)

2. KEY FEATURES

- **Motherboard Compatibility:** Supports Micro ATX (Max 25.5x25.5cm) and ITX (17x17cm) motherboards.
- **Power Supply Support:** Accommodates standard ATX Power Supply (150x140x86mm).
- **Graphics Card Length:** Maximum length of 250mm. If a 120x120x25mm fan is installed on the front side, the maximum length is 225mm.
- **Storage Options:** Supports 3x 3.5" HDDs and 1x 2.5" SSD, or 2x 3.5" HDDs and 1x 2.5" SSD if

two 120x120x25mm fans are installed on the front.

- **Cooling System:** Supports two 120x120x25mm fans on the front side and one 80mm fan on the back side.
 - **CPU Cooler Height:** Maximum CPU Cooler height of 135mm.
 - **Material:** Constructed from 0.8mm SPCC steel with ample air vents for heat dissipation.
 - **Front Panel Interface:** Includes 1x USB 3.0 port, 1x USB 2.0 port, Audio & Mic jacks, Power Button, and Reset Button.
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3. SPECIFICATIONS

Brand	JOYJOM
Model Name	MATX Case
Case Type	Mini-Tower
Color	Black
Material	Stainless Steel (0.8mm SPCC)
Product Dimensions (D x W x H)	10.43"D x 6.3"W x 13.9"H (265mm x 160mm x 355mm)
Item Weight	2.2 Kilograms
Motherboard Compatibility	Micro ATX (Max 25.5x25.5cm), ITX (17x17cm)
Power Supply Mounting Type	Rear Mount (Standard ATX PSU)
CPU Cooler Height (Max)	135mm
Graphics Card Length (Max)	250mm (225mm with front fan)
Fan Support	Front: 2x 120mm; Rear: 1x 80mm
Storage Bays	3x 3.5" HDD, 1x 2.5" SSD (configurations vary with front fans)
Front Panel Ports	1x USB 3.0, 1x USB 2.0, Audio, Mic
Total Expansion Slots	5



Figure 2: Case Dimensions (160mm W x 265mm D x 355mm H)



Figure 3: Detailed Case Dimensions

4. SETUP AND INSTALLATION

This section outlines the general steps for installing components into your JOYJOM MATX Case. Due to the compact nature of this case, careful planning and attention to component dimensions are recommended.

4.1. Preparing the Case

1. **Remove Side Panels:** Unscrew the side panel screws and gently push the side panel to uninstall it. Repeat for the other side if necessary.
2. **Remove Brackets:** Remove any pre-installed brackets by bending them and then screwing them into the corresponding position with screws, as needed for your build.

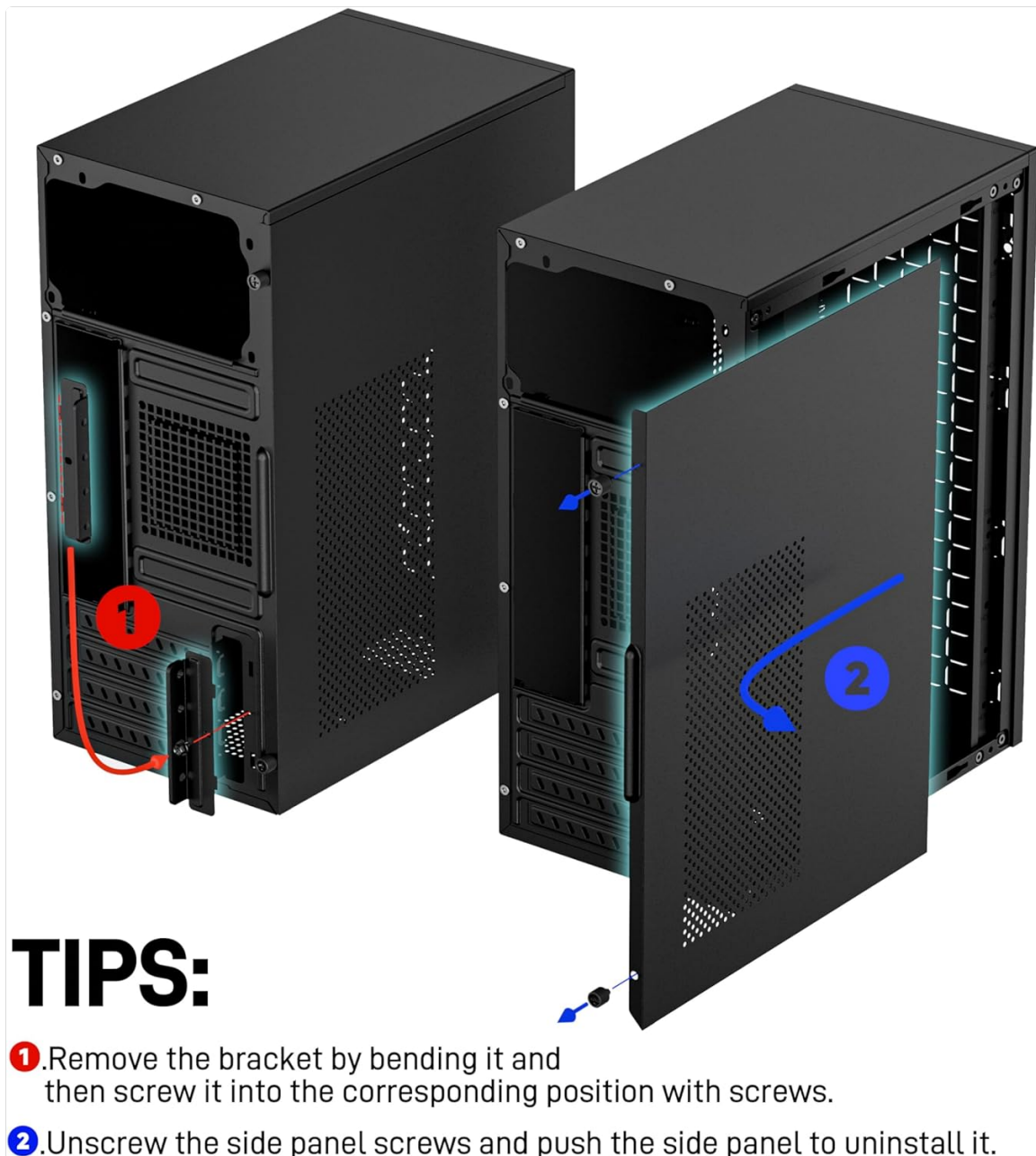


Figure 4: Side Panel Removal and Bracket Tips

4.2. Component Installation Overview

The following diagram illustrates the general placement of components within the case. Refer to your individual component manuals for specific installation instructions.

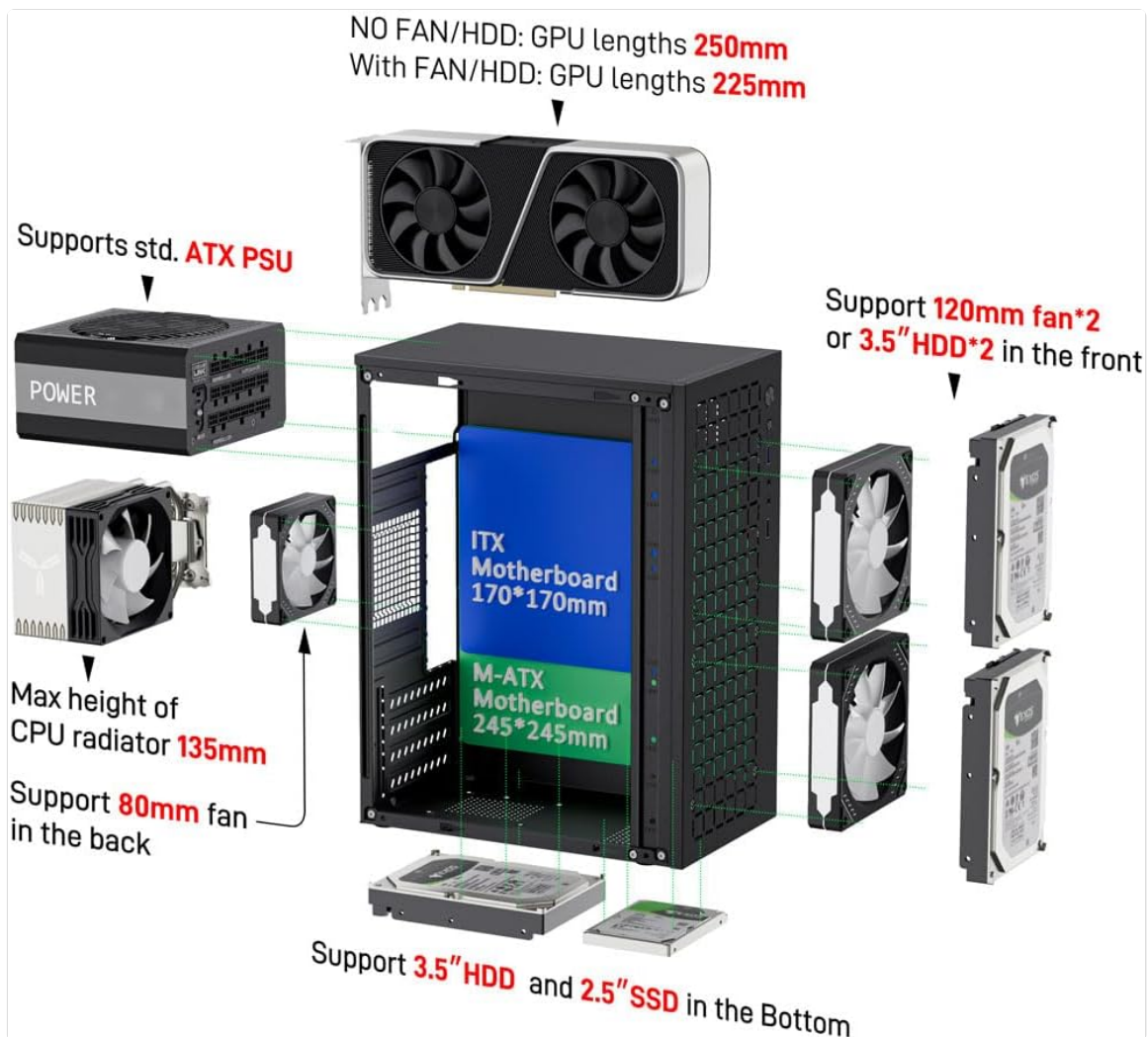


Figure 5: Component Placement Overview



Figure 6: Labeled Internal Component Areas

4.3. Detailed Installation Steps

1. Motherboard Installation:

- Install the CPU and CPU cooler onto the motherboard before placing it into the case, if possible, to ease access.
- Mount the motherboard (Micro ATX or ITX) onto the standoffs. Note that for Micro ATX boards, some mounting points may not align perfectly, which is a known characteristic of this compact case. Ensure the board is securely fastened where possible.
- Connect the front panel headers (USB 3.0, USB 2.0, Audio, Mic, Power, Reset) to the motherboard. Due to space constraints, routing these cables under the motherboard or using angled connectors may be necessary.

2. Power Supply Unit (PSU) Installation:

- Install a standard ATX power supply in the designated rear-mount area.
- Due to the top-mount design without a dedicated vent, it is recommended to install the PSU with its fan facing inwards towards the case interior to draw air from within the case.

3. Graphics Card Installation:

- Install your graphics card into the appropriate PCIe slot. Ensure its length does not exceed 250mm (or 225mm if a front fan is installed).
- Align the graphics card carefully with the expansion slots, as some users have reported minor alignment challenges.

4. Storage Drive Installation:

- Install 3.5" HDDs and 2.5" SSDs in the designated bays. Refer to Figure 5 and 6 for locations.
- If installing drives at the bottom, ensure sufficient clearance for SATA power and data cables. Angled SATA cables may be beneficial.

5. Fan Installation:

- Install up to two 120mm fans on the front panel and one 80mm fan on the rear panel for optimal airflow.
- When installing front fans, be mindful of potential interference with the motherboard's 24-pin power connector or GPU length. Slim 120mm fans may be required in some configurations.

6. Cable Management:

- This case offers limited dedicated cable management features. Utilize zip ties and strategic routing to organize cables and maintain good airflow.

4.4. Installation Video Guide

Watch this official video for a visual guide on component installation within the JOYJOM MATX Case.

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Video 1: JOYJOM Mini PC Case Assembly Guide. This video demonstrates the installation of various PC components into the case, including the motherboard, power supply, graphics card, and cooling solutions.

5. OPERATING THE PC CASE

Once all components are installed and connected, the PC case facilitates the operation of your computer system.

5.1. Front Panel Functions

- **Power Button:** Press to turn the computer on or off.
- **Reset Button:** Press to restart the computer.
- **USB 3.0 Port:** For high-speed data transfer with compatible devices.
- **USB 2.0 Port:** For standard data transfer with compatible devices.
- **Audio Jack:** For connecting headphones or speakers.
- **Microphone Jack:** For connecting a microphone.



Figure 7: Internal View with Components

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your PC components.

- **Dust Cleaning:** Periodically clean dust from the interior of the case, especially from fan filters and component heatsinks, using compressed air or a soft brush.
 - **Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners.
 - **Airflow Check:** Ensure that all fans are operating correctly and that ventilation openings are not obstructed to maintain proper airflow and cooling.
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7. TROUBLESHOOTING

This section addresses common issues that may arise during or after the assembly of your PC within the JOYJOM MATX Case.

7.1. Component Fit Issues

- **Motherboard Alignment:** For Micro ATX motherboards, some mounting points may not align perfectly. Secure the board using available standoffs. Avoid excessive force when connecting cables to areas without direct support.
- **GPU Length:** If your graphics card is too long, ensure no front fans are installed, or consider using a shorter GPU. The maximum length is 250mm without front fans, and 225mm with a 120x120x25mm front fan.
- **Front Fan Interference:** If front fans interfere with the motherboard's 24-pin power connector or other components, consider using slim 120mm fans (15mm thickness) or adjusting fan placement.
- **Bottom HDD Clearance:** If a 3.5" HDD at the bottom lacks clearance for SATA power/data cables, use angled connectors or consider adding small spacers/standoffs to slightly raise the drive.

7.2. Noise Amplification

- **Vibration:** If the case amplifies noise from components like hard drives, ensure all components are securely mounted. Adding rubber grommets or vibration-dampening material between drives and mounting points can help reduce resonance.

7.3. Poor Airflow/Overheating

- **Fan Configuration:** Ensure front fans are configured for intake and the rear fan for exhaust to create positive airflow.
 - **Cable Management:** Poor cable management can obstruct airflow. Reroute cables to minimize blockages.
 - **PSU Orientation:** The top-mounted PSU should ideally have its fan facing inwards to draw air from the case, aiding in heat exhaust.
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8. WARRANTY INFORMATION

The JOYJOM MATX Case comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or improper installation. Please retain your proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact JOYJOM customer support through the retailer where the product was purchased or visit the official JOYJOM website for contact information.

Online Resources:

- [JOYJOM Store on Amazon](#)