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## Electric Magic PC Test Bench

# Electric Magic PC Test Bench Open Frame User Manual

Model: PC Test Bench

## INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Electric Magic PC Test Bench Open Frame. This product is designed for enthusiasts and professionals who require an open and accessible platform for testing and modifying PC components, supporting ATX, M-ATX, and ITX motherboards.

Please read this manual thoroughly before beginning assembly or operation to ensure proper use and to prevent damage to the product or your components.

## PRODUCT OVERVIEW

The Electric Magic PC Test Bench is an open-frame computer case designed for easy access to internal components. It features a robust aluminum and acrylic construction, providing a stable platform for your PC hardware.

### Key Features:

- **Dimensions:** Approximately 24.6 cm (L) x 30 cm (W) x 35.5 cm (H).
- **Weight:** Approximately 1.5 kg (3.3 lbs) for the frame, 4.2 lbs (1.9 kg) shipping weight.
- **Material:** High-quality Acrylic and Aluminum.
- **Motherboard Compatibility:** Supports ATX, M-ATX, and ITX form factor motherboards.
- **PCI Slots:** Includes 7 standard PCI positions and 2 additional positions for expansion cards.
- **Storage Support:** Capable of installing up to two 3.5-inch mechanical hard drives and one 2.5-inch solid-state drive.
- **Cooling Support:** Designed to accommodate two cooling fans.



Figure 1: Fully assembled PC Test Bench with a motherboard, CPU cooler, graphics card, and fans installed, demonstrating its open-frame design.

## PACKAGE CONTENTS

Before beginning assembly, please verify that all components listed below are present in your package. If any parts are missing or damaged, please contact customer support.

- Aluminum frame components (red and black sections)
- Acrylic panels
- Mounting screws and standoffs for motherboard, drives, and fans
- PCI slot brackets
- Assembly tools (e.g., screwdriver, wrenches - if included)
- User Manual (this document)



Figure 2: View of the PC Test Bench components before assembly, showing the aluminum frame parts and acrylic panels.

## SETUP AND ASSEMBLY

Follow these steps carefully to assemble your PC Test Bench. It is recommended to work on a clean, flat surface.

### Step 1: Assemble the Base Frame

Connect the main aluminum base rails using the provided screws. Ensure all connections are secure but do not overtighten.



Figure 3: The PC Test Bench frame in a partially assembled state, showing the vertical and horizontal aluminum bars connected.

### Step 2: Attach Motherboard Tray and PCI Brackets

Secure the motherboard mounting tray to the frame. Then, attach the PCI slot brackets to the designated areas. The design allows for flexible positioning of components.

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Figure 4: Left and back views of the assembled PC Test Bench frame, highlighting the motherboard mounting area and PCI slot positions.

### Step 3: Install Acrylic Panels

Mount the clear acrylic panels to the sides of the frame. These panels provide structural integrity and a clean aesthetic.

### Step 4: Component Installation

1. **Motherboard:** Place your ATX, M-ATX, or ITX motherboard onto the standoffs and secure it with screws.
2. **Storage Drives:** Install your 3.5-inch HDDs and 2.5-inch SSDs in the designated mounting points.
3. **Cooling Fans:** Attach up to two cooling fans to the fan mounting brackets.
4. **Power Supply:** Position your power supply unit (PSU) in the designated area and secure it.
5. **Graphics Card/PCIe Devices:** Install your graphics card and other PCIe devices into the motherboard's slots and secure them to the PCI brackets.

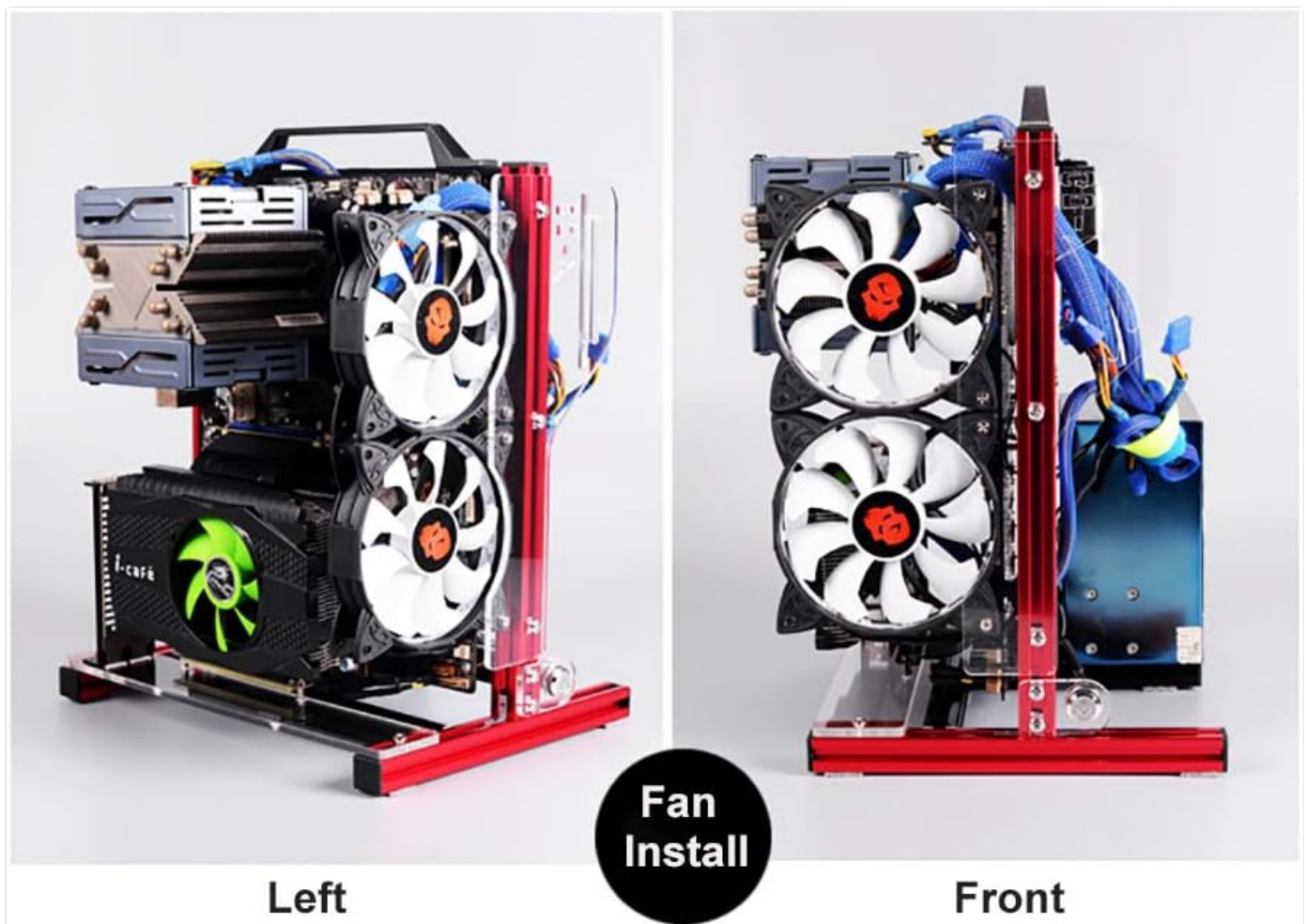


Figure 5: Left and front views of the PC Test Bench demonstrating the installation of cooling fans and other components.

## OPERATING INSTRUCTIONS

The PC Test Bench is designed for easy access and component swapping. Once all components are installed and cabled, connect your peripherals (monitor, keyboard, mouse) and power cable to the PSU. Use the integrated power button (if applicable) to power on the system.

Due to its open-frame design, ensure the test bench is placed in a clean, dust-free environment with good airflow. Avoid placing it near liquids or in areas with high static electricity.

## MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your PC Test Bench and its components.

- **Cleaning:** Periodically clean the aluminum frame and acrylic panels with a soft, dry cloth. For stubborn marks, a slightly damp cloth with mild soap can be used, followed by drying. Avoid abrasive cleaners or solvents.
- **Dust Removal:** As an open-frame design, dust accumulation can occur. Use compressed air to regularly clear dust from components, especially CPU coolers, GPU fans, and power supply vents.
- **Screw Tightness:** Occasionally check all screws and connections to ensure they remain tight. Vibrations from fans or handling can sometimes loosen fasteners over time.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your PC Test Bench setup. Since the test bench is a frame, most issues will relate to the installed PC components rather than the frame itself.

Problem	Possible Cause	Solution
System does not power on.	Loose power connections, faulty PSU, incorrect front panel wiring.	Ensure PSU is switched on and power cable is fully inserted. Verify all power cables (24-pin, 8-pin CPU, PCIe) are securely connected to the motherboard and components. Check front panel power button wiring to the motherboard.
No display output.	Graphics card not seated correctly, monitor cable loose, faulty GPU.	Reseat the graphics card firmly in its PCIe slot. Ensure display cable (HDMI, DisplayPort, DVI) is securely connected to both GPU and monitor. Test with a different monitor or cable if possible.
Components are loose after assembly.	Screws not tightened sufficiently.	Carefully re-tighten all assembly screws for the frame and component mounting screws. Do not overtighten.

## SPECIFICATIONS

Feature	Detail
Model Name	PC Test Bench
Brand	Electric Magic
Material	Acrylic, Aluminum
Dimensions (L x W x H)	24.6 cm x 30 cm x 35.5 cm (approx. 9.69 x 11.81 x 13.98 inches)
Item Weight	1.5 kg (3.3 lbs)
Motherboard Compatibility	ATX, M-ATX, ITX
PCI Slots	7 standard positions, 2 additional positions
Storage Drive Support	2 x 3.5" HDD, 1 x 2.5" SSD
Fan Support	2 fans
Compatible Devices	CPU (general PC components)
ASIN	B07MYRFXM
UPC	649383191594

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Electric Magic website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

**Electric Magic Store:** [Visit the Electric Magic Store on Amazon](#)

For further assistance, please contact customer support with your product model and ASIN (B07MYRFXM) ready.

