

## PC50DC FAN 60

# Generic Laptop CPU GPU Fan Instruction Manual

For CLEVO PC70HP, PC70HR, PC70HR-D, PC70HS Series Laptops

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your new Generic laptop CPU and GPU cooling fan. This product is designed as a replacement part to ensure optimal thermal management for compatible CLEVO laptop models.

**Compatibility:** This fan is compatible with CLEVO PC70HP, PC70HR, PC70HR-D, and PC70HS series laptops.

**Purpose:** The cooling fan is a critical component for dissipating heat generated by the Central Processing Unit (CPU) and Graphics Processing Unit (GPU), preventing overheating and maintaining system stability and performance.

## 2. SAFETY INFORMATION

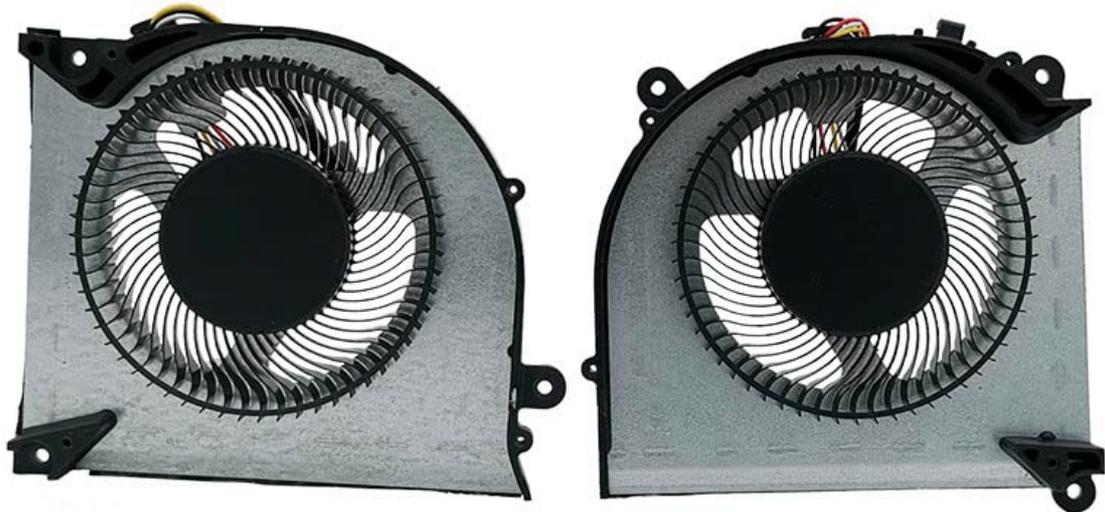
Please read and understand all safety precautions before attempting installation or maintenance. Improper handling can result in damage to the product, your laptop, or personal injury.

- Always disconnect the laptop from its power source and remove the battery before beginning any internal work.
- Discharge any static electricity from your body by touching a grounded metal object before handling internal components. Consider using an anti-static wrist strap.
- Handle components with care. Avoid touching the fan blades or electrical contacts directly.
- If you are not confident in performing the installation, seek assistance from a qualified technician.
- Keep small parts, such as screws, away from children.

## 3. PACKAGE CONTENTS

Verify that your package contains the following item:

- 1 x Generic Laptop CPU GPU Fan (Model: PC50DC FAN 60)



*This image displays two cooling fans, likely one for the CPU and one for the GPU, designed for laptop use. Each fan features a black brushless motor with 'FCN BRUSHLESS MOTOR' and 'MADE IN CHINA' labels, along with regulatory marks. The fans have green blades visible through a metallic housing, and each is equipped with a 4-pin connector cable for power and control.*

## 4. SETUP AND INSTALLATION

Replacing a laptop cooling fan requires careful handling of internal components. Follow these general steps. Specific disassembly instructions for your CLEVO laptop model may vary and should be referenced from your laptop's service manual or a reliable online guide.

1. **Prepare the Laptop:** Power off your laptop completely. Disconnect the AC adapter and remove the battery.
2. **Access Internal Components:** Carefully open the laptop chassis. This usually involves removing screws from the bottom panel and gently prying open the case.
3. **Locate the Old Fan:** Identify the CPU and/or GPU cooling fan(s) that need replacement.
4. **Disconnect and Remove Old Fan:** Gently disconnect the fan's power cable from the motherboard. Unscrew any mounting screws holding the old fan in place and carefully remove it.
5. **Clean Area (Optional but Recommended):** Use compressed air to clean any dust from the heatsink fins and surrounding areas. If replacing the CPU/GPU fan, consider cleaning and reapplying thermal paste to the CPU/GPU if the heatsink was removed.

6. **Install New Fan:** Place the new fan into position, ensuring it aligns correctly with the mounting points. Secure it with the screws removed earlier.
7. **Connect Power Cable:** Carefully connect the new fan's 4-pin power cable to the corresponding header on the motherboard. Ensure the connector is fully seated.
8. **Reassemble Laptop:** Reattach the laptop chassis panels and secure all screws. Reinsert the battery and connect the AC adapter.
9. **Test Functionality:** Power on the laptop and listen for the fan. Monitor system temperatures using appropriate software to ensure proper cooling.

## 5. OPERATING INSTRUCTIONS

Once installed, the cooling fan operates automatically, controlled by your laptop's system to maintain optimal temperatures. No manual intervention is typically required for its basic operation.

- Ensure proper airflow around your laptop by not blocking the intake or exhaust vents.
- Avoid operating the laptop on soft surfaces like beds or couches that can obstruct ventilation.
- Periodically monitor your laptop's temperature using system monitoring software to ensure the fan is functioning effectively.

## 6. MAINTENANCE

Regular maintenance helps prolong the life of your fan and ensures efficient cooling.

- **Dust Cleaning:** Over time, dust can accumulate on the fan blades and heatsink fins, reducing cooling efficiency. Periodically (e.g., every 6-12 months, depending on usage environment), open your laptop and use compressed air to gently clean the fan and heatsink. Hold the fan blades to prevent them from spinning rapidly during cleaning.
- **Check Connections:** Ensure the fan's power cable remains securely connected to the motherboard.
- **Listen for Unusual Noises:** If the fan starts making grinding, rattling, or excessive noise, it may indicate a bearing issue or obstruction, requiring further inspection or replacement.

## 7. TROUBLESHOOTING

If you encounter issues with your cooling fan, consider the following troubleshooting steps:

- **Fan Not Spinning:**
  - Check if the 4-pin power cable is securely connected to the motherboard.
  - Ensure the laptop is powered on and under load (e.g., running an application that uses CPU/GPU) as fans may not spin at low temperatures.
  - Verify that the fan is not physically obstructed by cables or debris.
- **Unusual Noise from Fan:**
  - Open the laptop and inspect the fan for any foreign objects (e.g., loose wires, dust clumps) that

might be hitting the blades.

- If the noise persists and is a grinding sound, the fan bearings may be failing, indicating a need for replacement.

- **Laptop Overheating:**

- Ensure the fan is spinning. If not, refer to 'Fan Not Spinning' above.
- Clean any dust from the fan and heatsink fins.
- Verify that the thermal paste on the CPU/GPU (if applicable) is properly applied and not dried out.
- Ensure laptop vents are not blocked.

## 8. SPECIFICATIONS

<b>Model Number</b>	PC50DC FAN 60
<b>Compatibility</b>	CLEVO PC70HP, PC70HR, PC70HR-D, PC70HS
<b>Connector Type</b>	4-PIN
<b>Voltage</b>	DC5V
<b>Current</b>	0.5A
<b>Product Dimensions</b>	11.81 x 7.87 x 3.94 inches
<b>Item Weight</b>	1.32 pounds
<b>Manufacturer</b>	Generic
<b>ASIN</b>	B0DT5MKCRL

## 9. WARRANTY

This product comes with a **90-day warranty** from the date of purchase. This warranty covers manufacturing defects. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications. Please retain your proof of purchase for warranty claims.

## 10. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact the seller or manufacturer through the platform where the product was purchased. Ensure you have your order details and product information readily available.

