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> wangpeng CPU Cooling Fan for HP Envy M4 Series Laptops (P/N: 698079-001) Instruction Manual

## wangpeng M4 Series (P/N: 698079-001)

# wangpeng CPU Cooling Fan for HP Envy M4 Series Laptops (P/N: 698079-001) - Instruction Manual

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## 1. PRODUCT OVERVIEW

This manual provides instructions for the installation, operation, and maintenance of the wangpeng CPU Cooling Fan, designed for specific HP Envy M4 series laptops. This component is crucial for maintaining optimal operating temperatures within your laptop, preventing overheating and ensuring stable performance.



Figure 1: wangpeng CPU Cooling Fan. This image displays the fan unit with its attached cable connector.

## 2. COMPATIBILITY

This CPU cooling fan is specifically designed for the following HP Envy M4 series laptop models:

- HP Envy M4-1000
- HP Envy M4-1012TX
- HP Envy M4-1003TX
- HP Envy DM4-1160US
- HP Envy M4-1015DX
- HP Envy M4-1115DX
- HP Envy FC1S

The part number for this fan is **698079-001**. Before installation, always verify that your laptop model and the fan's part number match the specifications provided.

## 3. SAFETY INFORMATION

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Please read and understand all safety precautions before attempting installation. Improper installation can damage your laptop or the fan.

- **Power Disconnection:** Always disconnect the laptop from its power adapter and remove the battery before opening the chassis or performing any internal work.
- **Static Electricity:** Discharge any static electricity from your body by touching a grounded metal object before handling internal components. Consider using an anti-static wrist strap.
- **Tools:** Use appropriate, non-magnetic tools to avoid damaging sensitive electronic components.
- **Professional Installation:** If you are not comfortable with laptop disassembly and reassembly, it is highly recommended to seek professional assistance for installation.
- **Component Handling:** Handle the fan and other internal components carefully to avoid bending pins or damaging connectors.

## 4. SETUP AND INSTALLATION

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The following steps provide a general guide for replacing a CPU cooling fan. Specific steps may vary slightly depending on your exact laptop model. Refer to your laptop's service manual for detailed instructions.

1. **Prepare Workspace:** Ensure a clean, well-lit, and static-free workspace.
2. **Power Down:** Shut down your laptop completely, disconnect the power adapter, and remove the battery.
3. **Access Internal Components:** Carefully open the laptop chassis. This usually involves removing screws from the bottom panel and potentially detaching the keyboard or palm rest.
4. **Locate Old Fan:** Identify the existing CPU cooling fan. It is typically located near the CPU and often connected to a heatsink.
5. **Disconnect Old Fan:** Gently disconnect the fan's power cable from the motherboard. Unscrew any mounting screws holding the fan and heatsink assembly in place.
6. **Remove Old Fan:** Carefully lift and remove the old fan and heatsink assembly. Clean any old thermal paste from the CPU and heatsink if you are reusing the heatsink.
7. **Apply Thermal Paste (if applicable):** If your new fan comes with a heatsink or you are reusing the old heatsink, apply a thin, even layer of new thermal paste to the CPU die.
8. **Install New Fan:** Position the new fan and heatsink assembly onto the CPU, aligning the screw holes. Secure it with the mounting screws.
9. **Connect New Fan:** Connect the new fan's power cable to the appropriate header on the motherboard. Ensure the connection is secure.
10. **Reassemble Laptop:** Carefully reassemble the laptop chassis, ensuring all cables are properly routed and all screws are tightened.
11. **Power On:** Reinsert the battery, connect the power adapter, and power on your laptop. Monitor fan operation and CPU temperatures.

*Note: Incorrect installation can lead to system instability or damage. If unsure, consult a qualified technician.*

## 5. OPERATION

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Once installed, the CPU cooling fan operates automatically, controlled by your laptop's system. Its primary function is to dissipate heat generated by the Central Processing Unit (CPU) during operation. The fan speed will adjust based on the CPU's temperature, increasing during heavy workloads to maintain optimal thermal conditions and decreasing during lighter use to reduce noise and power consumption.

A properly functioning fan ensures your laptop runs efficiently, preventing performance throttling and extending the lifespan of internal components.

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficiency of your CPU cooling fan.

- **Dust Removal:** Over time, dust can accumulate on the fan blades and heatsink fins, impeding airflow and reducing cooling efficiency. Periodically (e.g., every 6-12 months), open your laptop and gently clean the fan and heatsink using compressed air or a soft brush. Hold the fan blades stationary while using compressed air to prevent over-spinning and potential damage.
- **Avoid Obstructions:** Ensure the laptop's ventilation vents are not blocked when in use. Use your laptop on hard, flat surfaces rather than soft materials like blankets or pillows.

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## 7. TROUBLESHOOTING

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

- **Fan Not Spinning:**
  - Check if the fan's power cable is securely connected to the motherboard.
  - Ensure the laptop is receiving power (AC adapter connected, battery charged).
  - A faulty fan may require replacement.
- **Excessive Noise:**
  - Dust accumulation can cause rattling or grinding noises. Clean the fan as described in the Maintenance section.
  - A worn-out fan bearing can cause persistent noise. This typically requires fan replacement.
- **Laptop Overheating:**
  - Verify the fan is spinning. If not, refer to "Fan Not Spinning."
  - Check for dust buildup on the fan and heatsink.
  - Ensure thermal paste was correctly applied during installation.
  - Confirm the fan is the correct model for your laptop.

For persistent issues, contact customer support or a qualified technician.

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## 8. PRODUCT SPECIFICATIONS

<b>Brand</b>	wangpeng
<b>Compatible Devices</b>	HP Envy M4 Series Laptops
<b>Part Number (P/N)</b>	698079-001
<b>UPC</b>	615431616852
<b>ASIN</b>	B091KKNJFT
<b>GTIN</b>	615431616852
<b>Number of Items</b>	1

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## 9. WARRANTY AND SUPPORT

This wangpeng CPU Cooling Fan comes with a **3-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from material and workmanship flaws under normal use.

For warranty claims, technical assistance, or any questions regarding the product, please contact your retailer or the manufacturer directly. Please have your purchase receipt and product details available when contacting support.



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