

5F10S14008

## Laptop CPU Cooling Fan User Manual

Model: 5F10S14008, 5F10S14009, BAPD0906R5HY003

### INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your new Laptop CPU Cooling Fan. This fan is designed to replace original equipment in compatible Lenovo laptops, ensuring optimal thermal performance for your device. Please read this manual thoroughly before proceeding with installation. This product is a direct replacement for Lenovo part numbers 5F10S14008, 5F10S14009, and BAPD0906R5HY003, operating at DC 5V 0.5A.

### PRODUCT OVERVIEW

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**Figure 1:** Front view of the Laptop CPU Cooling Fan, showing the fan blades, housing, and power connector. This component is crucial for dissipating heat from the laptop's central processing unit.

The CPU cooling fan is an internal component responsible for maintaining the operating temperature of your laptop's CPU within safe limits. It draws cool air into the system and expels hot air, preventing overheating and potential damage to internal components.

## INSTALLATION GUIDE

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**Warning:** Laptop disassembly and component replacement should only be performed by individuals with technical expertise. Improper installation can lead to damage to the laptop or the new component. Disconnect all power sources and remove the battery before beginning installation.

### Required Tools:

- Small Phillips head screwdriver
- Plastic pry tool (optional, for opening laptop casing)
- Anti-static wrist strap (recommended)

## Installation Steps:

- 1. Prepare the Laptop:** Power off the laptop completely and disconnect the AC adapter. Remove the battery if it is external.
- 2. Access the Internal Components:** Carefully open the laptop casing. This usually involves removing screws from the bottom panel and gently prying open the case. Refer to your specific laptop model's service manual for precise instructions.
- 3. Locate the Old CPU Fan:** Identify the existing CPU cooling fan. It is typically connected to the motherboard and may be covered by a heatsink.
- 4. Disconnect and Remove Old Fan:** Gently disconnect the fan's power cable from the motherboard. Unscrew any retaining screws holding the 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 thermal paste, clean the CPU and heatsink surfaces thoroughly.
- 6. Install New CPU Fan:** Position the new fan in the same location as the old one. Ensure screw holes align. Secure the fan with the retaining screws.
- 7. Connect Power Cable:** Carefully connect the new fan's power cable to the corresponding port on the motherboard. Ensure it is seated firmly.
- 8. Reassemble Laptop:** Carefully close the laptop casing, ensuring all clips and screws are properly secured.
- 9. Test Functionality:** Reconnect the battery (if applicable) and AC adapter. Power on the laptop and observe if the fan spins. Monitor CPU temperatures using software to confirm proper operation.

## OPERATING INSTRUCTIONS

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The CPU cooling fan operates automatically, controlled by the laptop's BIOS and operating system based on CPU temperature. No manual intervention is typically required for its operation.

- The fan will increase its speed as the CPU temperature rises to dissipate more heat.
- It will slow down or stop when the CPU temperature is low, to conserve power and reduce noise.

## MAINTENANCE

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Regular maintenance can extend the lifespan of your CPU fan and ensure optimal cooling performance.

- **Dust Removal:** Periodically (e.g., every 6-12 months), open your laptop and gently clean dust from the fan blades and heatsink fins using compressed air. Hold the fan blades to prevent them from spinning excessively during cleaning.
- **Inspection:** While cleaning, inspect the fan for any signs of wear, such as loose blades or unusual noise.
- **Thermal Paste:** If you notice consistently high temperatures, consider reapplying thermal paste between the CPU and heatsink. This is an advanced procedure and should only be done if you are comfortable with it.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan not spinning after installation	Power cable not connected properly. Fan is faulty. BIOS settings issue.	Check fan power cable connection to motherboard. Verify fan functionality (if possible, test with another known good fan). Check BIOS settings for fan control (advanced users only).
Loud or unusual fan noise	Dust accumulation. Fan bearing wear. Obstruction.	Clean the fan blades and heatsink. If noise persists, the fan may need replacement. Ensure no cables or debris are obstructing the fan blades.
Laptop overheating despite new fan	Improper thermal paste application. Heatsink not properly seated. Other system components overheating.	Reapply thermal paste correctly. Ensure heatsink is securely mounted to the CPU. Investigate other potential heat sources or system issues.

## SPECIFICATIONS

Attribute	Value
Model Numbers	5F10S14008, 5F10S14009, BAPD0906R5HY003
Brand	Generic
Voltage	DC 5V
Current	0.5A
Wattage	2.5 watts
Power Connector Type	2-Pin
Cooling Method	Forced Air
Compatible Devices	Laptop (Specific Lenovo models)
Product Dimensions	11.81 x 7.87 x 3.94 inches
Item Weight	1.32 Pounds

## WARRANTY INFORMATION

This product comes with a **90-day warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

For warranty claims, please retain your proof of purchase and contact the seller. You may be required to provide

details of the issue and potentially return the defective item for inspection or replacement.

## SUPPORT AND CONTACT

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If you encounter any issues or have questions regarding the installation or operation of your CPU cooling fan, please contact the seller or a qualified computer technician for assistance.

For technical support, it is recommended to consult the service manual for your specific laptop model, as disassembly and reassembly procedures can vary significantly between models.