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AnkerMake V7114011

AnkerMake M5 Model Cooling Fan User Manual

PRODUCT OVERVIEW

The AnkerMake M5 Model Cooling Fan is designed to provide efficient and powerful cooling for 3D printing models. It features a dual 3010 cooling fan design, delivering high-speed performance with 16000 RPM and 2.26 CFM airflow, ensuring optimal print quality by rapidly cooling extruded material.



Image: Two AnkerMake M5 Model Cooling Fans, showcasing their compact design and wiring.

WHAT'S IN THE BOX

Verify that all components are present upon unboxing. The package includes the following items:

- 1 x Left Model Cooling Fan
- 1 x Right Model Cooling Fan

What's in the Box



Image: The AnkerMake M5 Model Cooling Fan retail packaging alongside the two cooling fan units.

SETUP AND INSTALLATION

This section provides instructions for installing the AnkerMake M5 Model Cooling Fans into your compatible 3D printer. Ensure the printer is powered off and disconnected from the power source before beginning installation.

Tools Required:

- Small Phillips head screwdriver
- Anti-static wrist strap (recommended)

Installation Steps:

1. **Power Off:** Disconnect the 3D printer from the main power supply and ensure it is completely off.
2. **Access Fan Compartment:** Locate the existing model cooling fans on your AnkerMake M5 3D printer. This typically involves removing a cover or shroud around the print head assembly. Refer to your 3D printer's specific service manual for exact access procedures.
3. **Disconnect Old Fans:** Carefully disconnect the wiring of the old cooling fans from their respective ports on the printer's circuit board. Note the orientation and connection points for reinstallation.
4. **Remove Old Fans:** Unscrew and remove the old cooling fans from their mounting points.
5. **Install New Fans:** Position the new AnkerMake M5 Model Cooling Fans (Left and Right) into their designated slots. Ensure the airflow direction matches the original fan setup (typically blowing towards the nozzle/print). Secure them with the appropriate screws.
6. **Connect Wiring:** Connect the wiring of the new fans to the corresponding ports on the printer's circuit board. Ensure a secure and correct connection to avoid damage.
7. **Reassemble:** Reattach any covers or shrouds that were removed during the process.
8. **Power On and Test:** Reconnect the 3D printer to the power supply and power it on. Initiate a test print or a fan test function (if available on your printer) to confirm proper operation of the new cooling fans.

If you encounter any difficulties during installation, consult the AnkerMake M5 3D printer's official documentation or contact AnkerMake support.

OPERATING INSTRUCTIONS

The AnkerMake M5 Model Cooling Fans operate in conjunction with your 3D printer's firmware and slicing software settings. Their primary function is to cool the freshly extruded filament, preventing warping, stringing, and improving overall print quality, especially for overhangs and bridges.

Fan Control:

- **Slicer Software:** Fan speed is typically controlled through your 3D printing slicer software (e.g., Cura, PrusaSlicer, AnkerMake Slicer). You can set fan speeds for different layers, print features (e.g., bridges), or specific filament types.
- **Printer Interface:** Some 3D printers allow for manual fan speed adjustment directly from the printer's control panel during a print. Refer to your printer's manual for this functionality.

Recommended Usage:

- **PLA:** Generally requires significant cooling. Start with 100% fan speed after the first few layers.
- **PETG:** Requires less cooling than PLA to prevent layer adhesion issues. Often 20-50% fan speed is sufficient.
- **ABS/ASA:** Typically requires minimal to no cooling to prevent warping and cracking due to rapid temperature changes.
- **Other Filaments:** Consult the filament manufacturer's recommendations for optimal cooling settings.

Experiment with fan settings to find the ideal balance for your specific filament, print speed, and model geometry to achieve the best print results.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your AnkerMake M5 Model Cooling Fans.

Cleaning:

- **Frequency:** Inspect the fans monthly or more frequently if operating in a dusty environment.
- **Procedure:**
 1. Power off and unplug the 3D printer.
 2. Gently use a soft brush, compressed air, or a vacuum cleaner with a narrow attachment to remove dust and filament debris from the fan blades and housing.
 3. Avoid touching the fan blades directly with your fingers to prevent damage.

Inspection:

- Periodically check the fan wiring for any signs of wear, fraying, or loose connections.
- Ensure the fans are securely mounted and do not wobble or vibrate excessively during operation.
- Listen for unusual noises (e.g., grinding, rattling) which may indicate a failing bearing or obstruction.

TROUBLESHOOTING

This section addresses common issues you might encounter with your AnkerMake M5 Model Cooling Fans.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan not spinning	Loose connection, obstructed blades, faulty fan, incorrect slicer settings.	Check wiring connections. Remove any obstructions. Verify fan speed settings in slicer. If still not working, the fan may need replacement.
Excessive noise/vibration	Dust/debris on blades, loose mounting screws, worn bearing.	Clean fan blades. Tighten mounting screws. If noise persists, the fan may be failing and require replacement.
Poor print quality (e.g., warping, stringing)	Insufficient or excessive cooling, fan not operating correctly.	Adjust fan speed settings in slicer. Ensure fans are spinning correctly. Check for obstructions.

For issues not covered here, please refer to the AnkerMake M5 3D printer's comprehensive troubleshooting guide or contact customer support.

SPECIFICATIONS

Detailed technical specifications for the AnkerMake M5 Model Cooling Fan:

Specs	
Size:	30×30×10 mm
Rated Voltage:	24V
Rated Power:	1.92W
Maximum Speed:	16000 RPM
Noise Level:	42dB (at 25°C, 1 m distance, with 18dB background noise)
Service Life:	70,000+ hours
Package Includes:	1 Left Model Cooling Fan 1 Right Model Cooling Fan

Image: A table detailing the technical specifications of the AnkerMake M5 Model Cooling Fan.

Attribute	Value
Product Dimensions	1.18 x 1.18 x 0.39 inches (30 x 30 x 10 mm)
Item Model Number	V7114011
Brand	AnkerMake
Material	Copper
Color	Black
Item Weight	0.02 Pounds (0.32 ounces)
Rated Voltage	24V
Rated Power	1.92W

Attribute	Value
Maximum Speed	16000 RPM
Noise Level	42dB (at 25°C, 1m distance, with 18dB background noise)
Service Life	70,000+ hours
UPC	194644151041

WARRANTY AND SUPPORT

AnkerMake products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the official AnkerMake website or the warranty card included with your original 3D printer purchase.

Customer Support:

If you require technical assistance, have questions about installation, operation, or troubleshooting, please contact AnkerMake customer support through their official channels:

- **Website:** Visit the official AnkerMake website for FAQs, support articles, and contact information.
- **Email:** Refer to the AnkerMake website for their support email address.
- **Online Community:** Join the AnkerMake user community forums for peer support and shared knowledge.

When contacting support, please have your product model number (V7114011) and purchase information ready.