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Irfora NEMA 17 Stepper Motor Vibration Damper

Irfora NEMA 17 Stepper Motor Vibration Damper Instruction Manual

Model: NEMA 17 Vibration Damper

INTRODUCTION

This manual provides detailed instructions for the installation and use of the Irfora Brass & Rubber Stepper Motor Vibration Dampers. These dampers are designed to significantly reduce noise and vibration produced by NEMA 17 stepper motors, commonly found in 3D printers like the CR-10, CR-10S, CR-10 V2, Ender 3, and Ender 3 Pro. By absorbing motor vibrations, these dampers contribute to a quieter operating environment and can lead to improved print quality by minimizing artifacts caused by resonance.

SAFETY INFORMATION

- Ensure the 3D printer or device is powered off and unplugged before installation.
- Handle small components carefully to avoid loss.
- If unsure about any step, consult a qualified technician or refer to your 3D printer's specific documentation.

PACKAGE CONTENTS

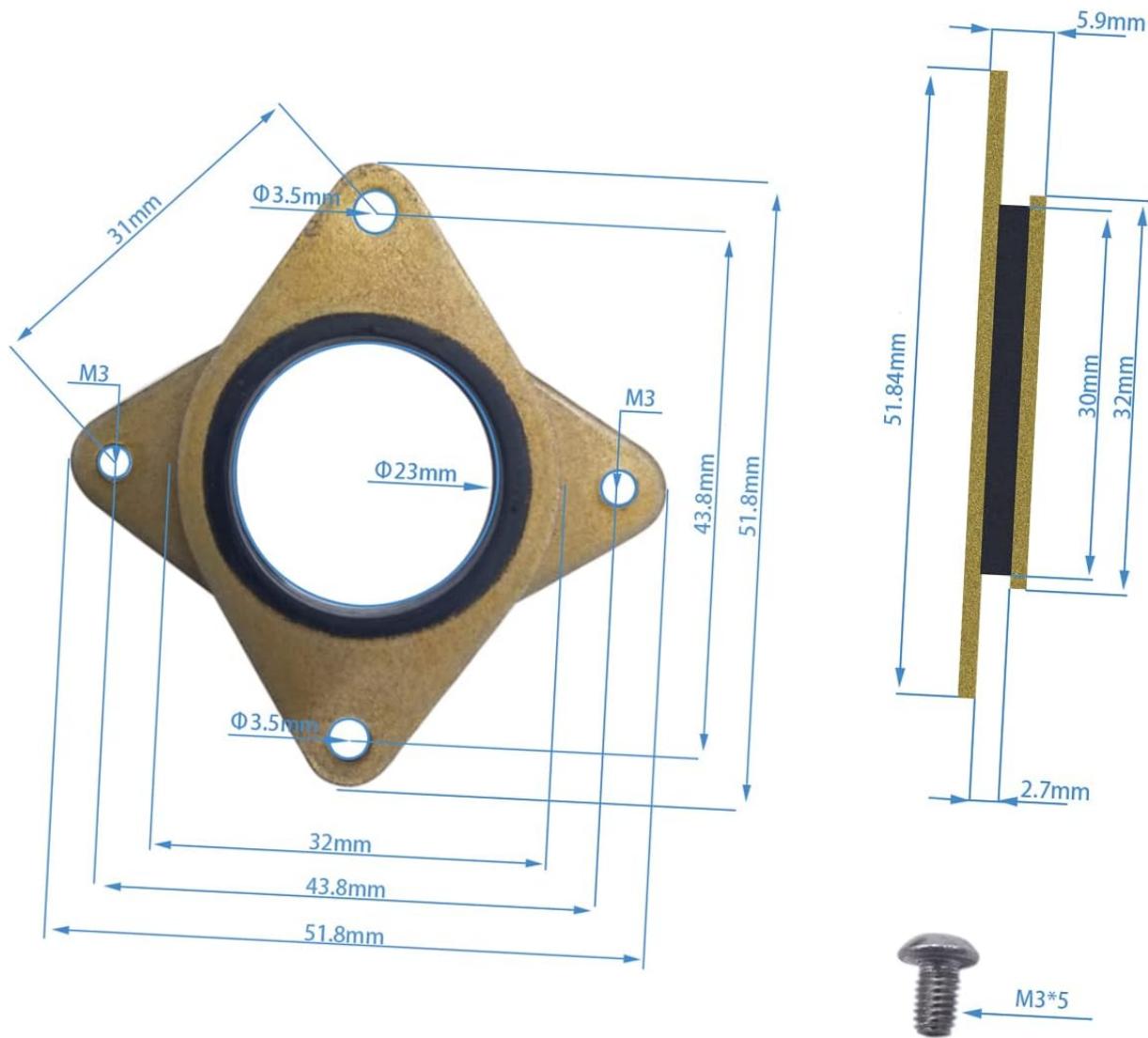
Verify that all components are present in the package:

- 4 x Stepper Motor Dampers (Brass & Rubber)
- 8 x M3*5mm Screws

SPECIFICATIONS

Component	Detail
Damper Material	Brass & Rubber
Damper Thickness	6mm
Screw Material	Stainless Steel
Screw Size	M3*5mm

Component	Detail
Compatibility	NEMA 17 Stepper Motors (e.g., CR-10, Ender 3 series)



INSTALLATION GUIDE

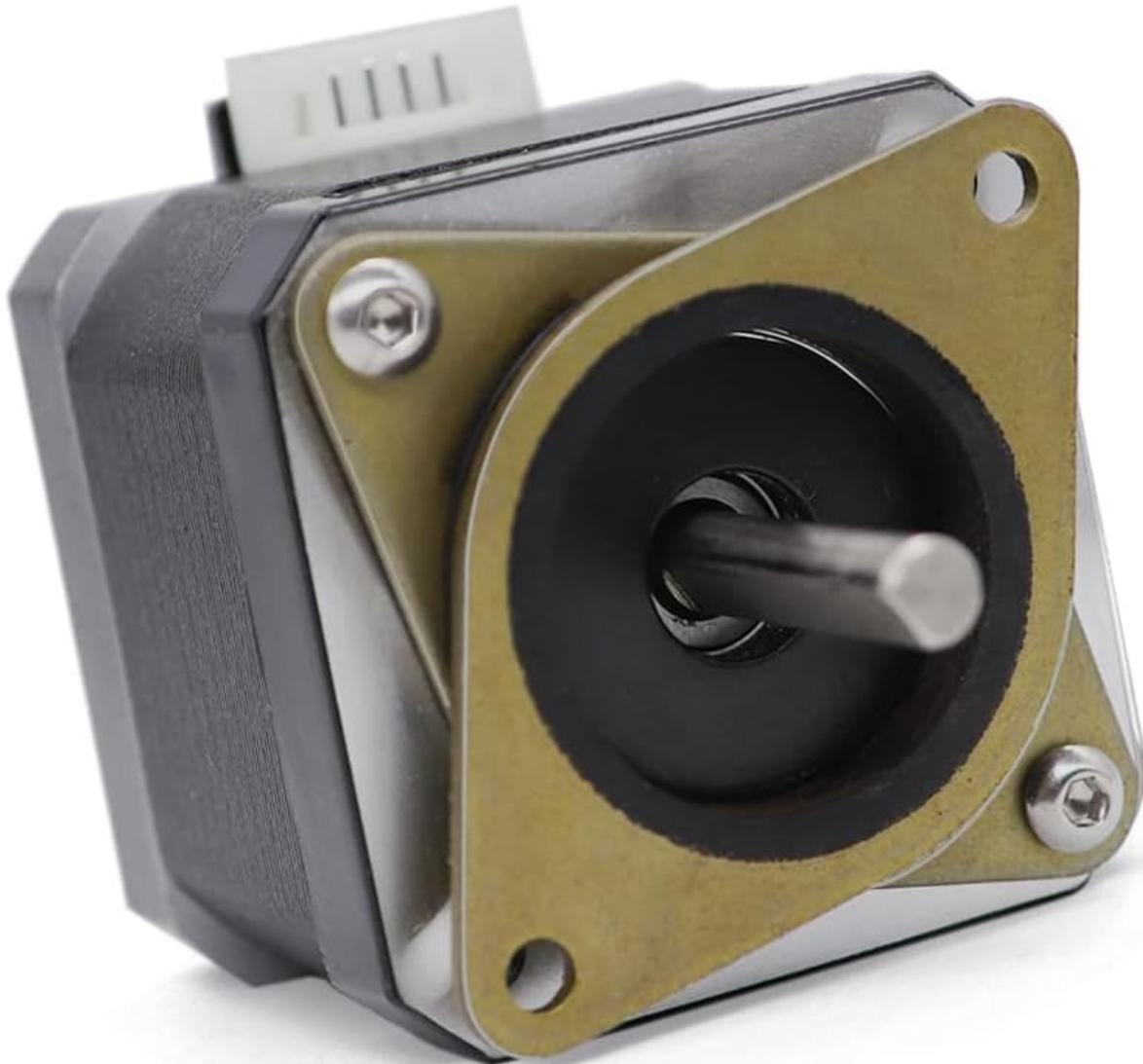
Follow these steps to install the vibration dampers on your NEMA 17 stepper motors.

- 1. Prepare the Motor:** Ensure your 3D printer or device is turned off and unplugged. Locate the NEMA 17 stepper motor you wish to equip with a damper.



This image shows two Irlora stepper motor vibration dampers, highlighting their brass plates and central rubber ring.

2. **Remove Existing Motor:** Carefully detach the stepper motor from its mounting bracket on your 3D printer. This usually involves unscrewing it from the frame. Keep track of any existing screws.
3. **Position the Damper:** Place one Irlora vibration damper between the stepper motor and the mounting bracket. The damper should sit flush against the motor's mounting face.



Note: The stepper motor is not included.

This image illustrates an Irfora vibration damper correctly positioned on the front face of a NEMA 17 stepper motor, ready for mounting.

4. **Secure the Motor:** Align the screw holes of the motor, damper, and mounting bracket. Use the provided M3*5mm screws to secure the motor with the damper in place. Do not overtighten the screws.
5. **Repeat for Other Motors:** If you have multiple stepper motors you wish to dampen, repeat steps 1-4 for each motor.



A close-up view of two Irfora stepper motor vibration dampers, showing the layered construction of brass and rubber.

OPERATION

Once installed, the Irfora vibration dampers operate passively. They absorb mechanical vibrations generated by the stepper motor during its operation, reducing noise and preventing these vibrations from transferring to the printer frame. This results in a quieter printing experience and can lead to improved print quality by minimizing artifacts caused by resonance.

MAINTENANCE

- Periodically inspect the dampers for any signs of wear or damage.
- Ensure the mounting screws remain snug. Do not overtighten.
- Keep the dampers free from dust and debris. A soft, dry cloth can be used for cleaning.

TROUBLESHOOTING

Persistent Noise/Vibration

- **Check Installation:** Ensure the dampers are correctly installed between the motor and the mounting bracket, and that all screws are tightened appropriately (not overtightened).
- **Inspect Dampers:** Verify that the rubber ring within the damper is intact and not damaged.
- **Motor Issues:** If vibration persists, the issue might be with the stepper motor itself or other components of the 3D printer. Consult your 3D printer's manual for further diagnostics.

Loose Mounting

- **Retighten Screws:** Gently retighten the M3 screws. Avoid excessive force.
- **Verify Screw Length:** Ensure the M3*5mm screws are appropriate for your specific motor and mounting bracket combination. Longer screws might be needed if the original screws were very short and the damper adds thickness.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Irfora Stepper Motor Vibration Dampers, please refer to the retailer's return policy or contact Irfora customer service through the platform where the product was purchased. Keep your purchase receipt for warranty claims.