

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [NEJE](#) /

› [NEJE Automatic Air Assist Set \(48L/min\) Instruction Manual for NEJE Laser Engravers](#)

NEJE NEJE00695

NEJE Automatic Air Assist Set (48L/min) Instruction Manual

Model: NEJE00695

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NEJE Automatic Air Assist Set. This device is designed to enhance the performance of NEJE laser engraving machines by providing a steady airflow of 48 liters per minute, which helps protect the laser lens and improve engraving quality.

SAFETY INFORMATION

Please read and understand all safety instructions before operating the air assist set. Failure to follow these instructions may result in injury or damage to the equipment.

- Ensure the power supply is disconnected from the laser engraver before installation or maintenance.
- Operate the air assist set in a well-ventilated area.
- Keep the air pump away from water or damp environments.
- Do not block the air intake or outlet of the pump during operation.
- Use only the provided power adapter and accessories.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

PACKING LIST

Air Pump x 1

Relay Module x 1

12V 2A Power Adapter x 1

Transparent Air Tube x 1

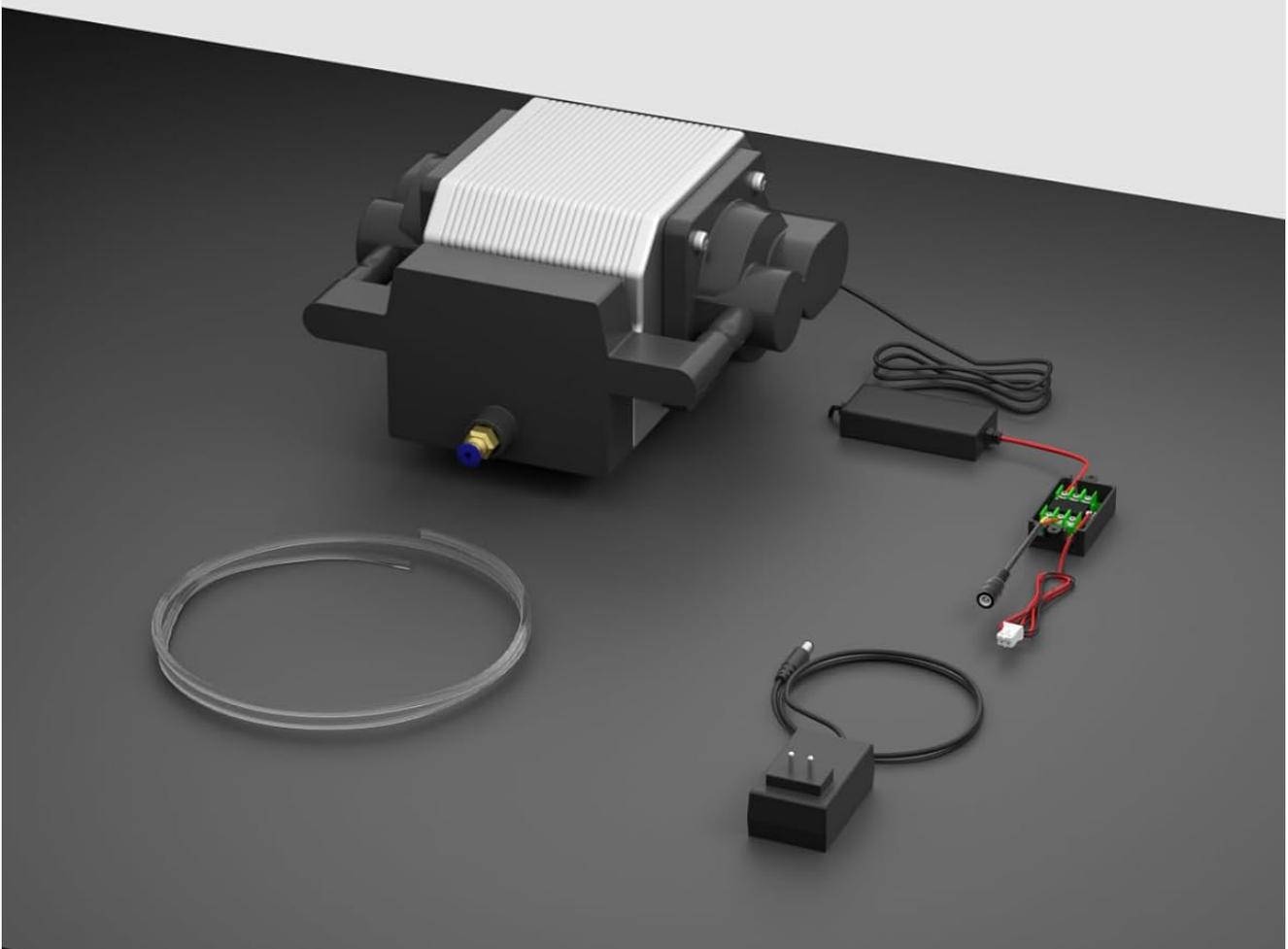


Image: Contents of the NEJE Automatic Air Assist Set package, including the air pump, relay module, 12V 2A power adapter, and transparent air tube.

- Air Pump x 1
- Relay Module x 1
- 12V 2A Power Adapter x 1
- Transparent Air Tube x 1

SPECIFICATIONS

Feature	Detail
Airflow Rate	48 Liters/minute
Compatibility	NEJE 3 (updated), NEJE 3 Plus, NEJE 3 Pro, NEJE 3 Max V2, NEJE MAX 4 (all NEJE laser engravers with M7/M8 interface)
Power Adapter	12V 2A
Product Dimensions	9.84 x 7.48 x 5.12 inches
Item Weight	4.62 pounds
Model Number	NEJE00695

SETUP AND INSTALLATION

Follow these steps to correctly install the NEJE Automatic Air Assist Set with your NEJE laser engraving machine.

CONNECT TO M7/M8 PORT FOR AUTOMATIC AIR ASSIST

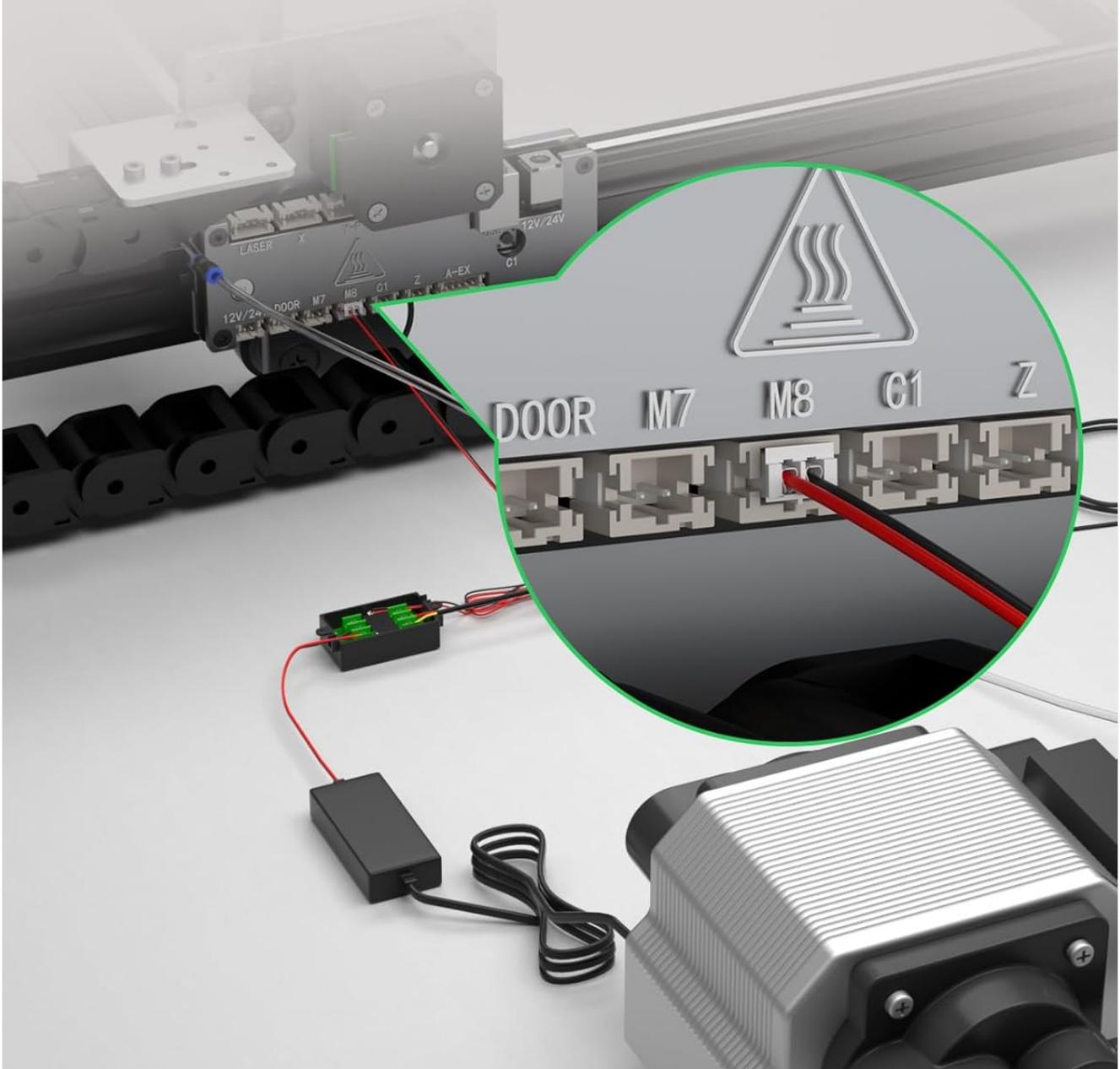


Image: Detailed view of connecting the air assist relay module to the M7/M8 port on the NEJE laser engraver's motherboard.

1. **Power Off:** Ensure your NEJE laser engraving machine is completely powered off and unplugged from the power source.
2. **Locate M7/M8 Port:** Identify the M7 or M8 port on the motherboard of your NEJE laser engraving machine. These ports are typically labeled.
3. **Connect Relay Module:** Connect the included relay module to the M7/M8 port. The relay module enables automatic control of the air pump.
4. **Connect Air Pump:** Connect the air pump to the relay module.

5. **Attach Air Tube:** Securely attach one end of the transparent air tube to the air pump's outlet and the other end to the air nozzle on your laser module. Ensure a snug fit to prevent air leakage.
6. **Connect Power Adapter:** Plug the 12V 2A power adapter into the air pump and then into a suitable power outlet.
7. **Power On:** Reconnect power to your NEJE laser engraving machine. The air assist set will now be ready for automatic operation, adapting to software like Lightburn, LaserGRBL, and NEJE software.

OPERATING INSTRUCTIONS

The NEJE Automatic Air Assist Set is designed to operate in conjunction with your NEJE laser engraver, providing controlled airflow during engraving and cutting processes. When properly connected to the M7/M8 port, the air assist will activate automatically with your laser operations.

Benefits of Air Assist

Strong and Stable Airflow (48L/min)

STRONG AND STABLE AIRFLOW

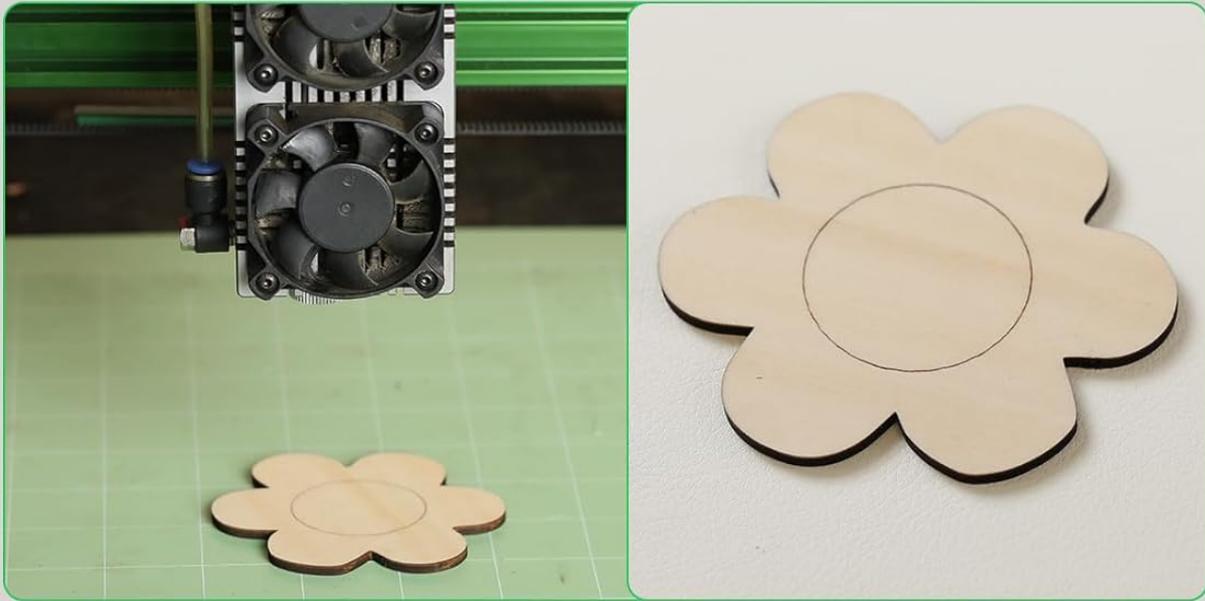


Image: Illustration demonstrating the consistent and powerful 48 liters per minute airflow from the air assist nozzle onto the material during laser operation.

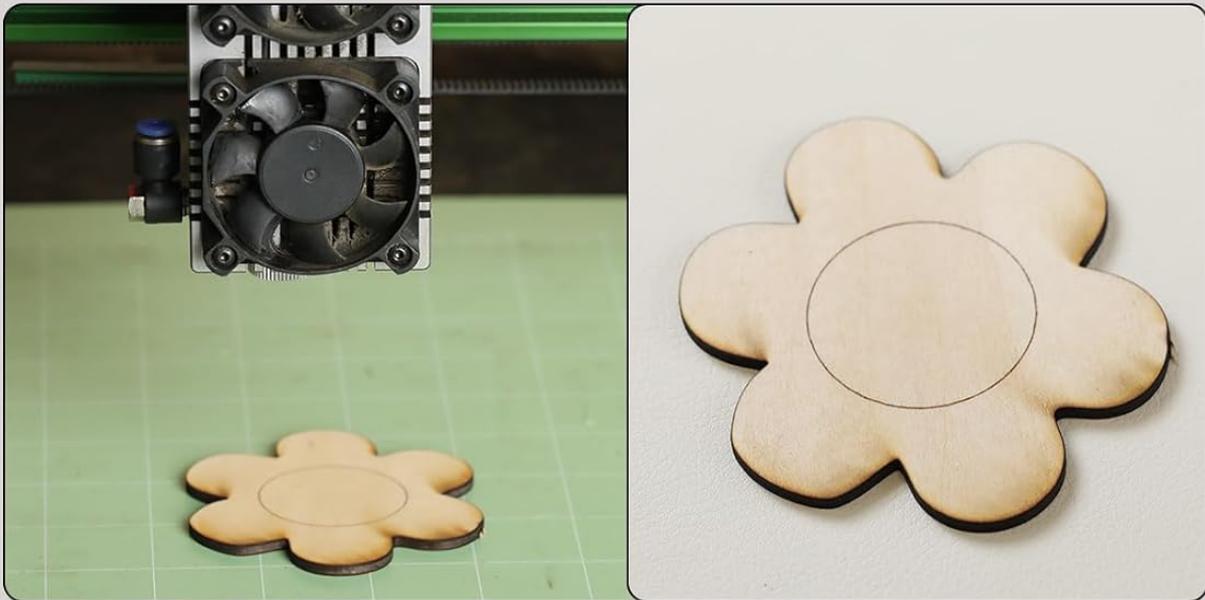
The air pump delivers a robust and consistent airflow of 48 liters per minute directly to the laser's focal point. This steady stream of air is crucial for effective material processing and maintaining optimal laser performance.

Cleaner Material Surface

MAKE MATERIAL SURFACE CLEANER



With Air Assist



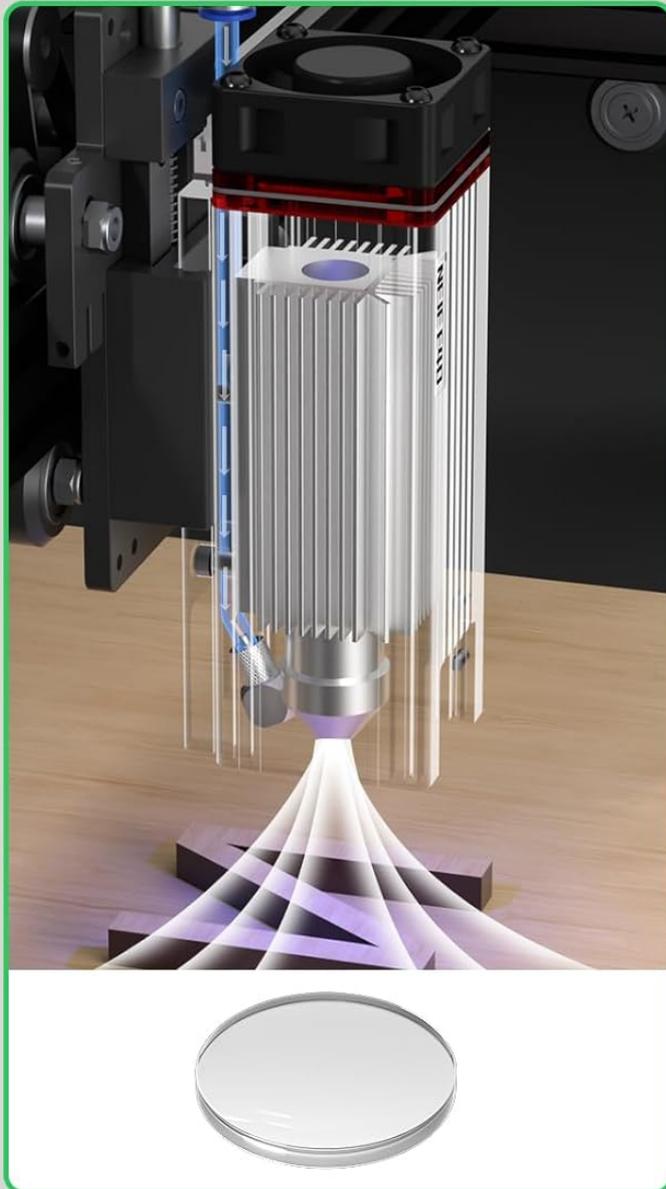
No Air Assist

Image: Side-by-side comparison of a flower-shaped wooden cutout. The top image, labeled "With Air Assist," shows a clean, unblemished surface. The bottom image, labeled "No Air Assist," shows burn marks and discoloration around the engraved lines.

By rapidly reducing the surface temperature of the material, the air assist prevents deformation and discoloration caused by high-temperature laser work. This results in smoother lines, intact patterns, and a cleaner material surface, contributing to a higher quality finished product.

Protection for Laser Module Lens

PROTECT THE MODULE LEN FOR LONGER LIFE



With Air Assist



No Air Assist

Image: A split diagram showing a laser module. On the left, labeled "With Air Assist," air blows smoke and debris away from the lens. On the right, labeled "No Air Assist," smoke and debris accumulate on the lens, shown as a dirty lens below.

The steady airflow effectively blows away smoke, dust, and debris generated during laser engraving and cutting. This prevents these particles from rising and contaminating the laser module lens, thereby extending the service life and maintaining the clarity of your laser module.

Low Noise and Vibration Operation

LOW NOISE & VIBRATION



Image: A person comfortably reading in a chair, with the NEJE air assist pump visible in the foreground, illustrating its low noise and vibration characteristics during operation.

The NEJE air assist pump is engineered for quiet operation with minimal vibration, ensuring a more pleasant working environment without significant noise disturbance.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your air assist set.

- **Clean Air Filter:** Periodically check and clean the air filter (if applicable) to prevent dust accumulation and maintain

efficient airflow.

- **Inspect Air Tube:** Ensure the transparent air tube is free from kinks, blockages, or damage. Replace if necessary.
- **Keep Vents Clear:** Ensure the air pump's ventilation openings are clear of obstructions to prevent overheating.
- **Store Properly:** When not in use for extended periods, store the air assist set in a clean, dry environment.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
No airflow from nozzle	Air pump not powered, tube kinked/blocked, relay module not connected correctly.	Check power adapter connection. Inspect air tube for obstructions. Verify relay module connection to M7/M8 port.
Weak airflow	Air filter clogged, air tube partially blocked, pump malfunction.	Clean or replace air filter. Check air tube for partial blockages. Contact support if pump appears faulty.
Air assist does not activate automatically	Relay module not connected to M7/M8, software settings incorrect.	Ensure relay module is correctly plugged into M7/M8. Check your laser control software (Lightburn, LaserGRBL, NEJE software) settings for air assist control.
Unusual noise or vibration	Pump not on a stable surface, internal component issue.	Place the pump on a flat, stable surface. Ensure no objects are touching the pump. If noise persists, contact support.

WARRANTY AND SUPPORT

NEJE is committed to providing high-quality products and customer satisfaction. If you encounter any issues or have questions regarding your NEJE Automatic Air Assist Set, please refer to the following:

- **Technical Support:** For professional technical assistance, please visit the official NEJE support website.
- **Warranty Information:** Details regarding product warranty can be found on the NEJE official website or by contacting customer service.

You can find more information and support resources by visiting the [NEJE Official Store on Amazon](#) or their dedicated support channels.