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NEWACALOX 4AB-3X

NEWACALOX Magnetic Helping Hand with 3X LED Magnifying Lamp, Model 4AB-3X

Instruction Manual

1. Introduction

This manual provides instructions for the assembly, operation, maintenance, and troubleshooting of your NEWACALOX Magnetic Helping Hand with 3X LED Magnifying Lamp. This tool is designed to assist with precision tasks such as soldering, crafting, and electronic repair by securely holding components in place and providing magnified illumination.



Image: The complete NEWACALOX Magnetic Helping Hand assembly, featuring the magnetic base, flexible gooseneck arms with alligator clips, and the LED magnifying lamp.

2. Included Components

Please verify that all the following components are included in your package:

- 1 x Heavy Duty Steel Base (9 x 6 inches)
- 4 x Magnetic Gooseneck Arms (two 9-inch, two 4.5-inch)
- 1 x 3X LED Magnifying Lamp with Magnetic Base
- 4 x Alligator Clamps (pre-attached to gooseneck arms)
- 4 x PCB Pillars with Magnetic Bases
- 4 x Non-slip Silicone Mats (for base)



Image: A detailed view of the various components that make up the helping hand system, including the flexible arms and the magnifying lamp.

3. Setup Instructions

1. **Prepare the Base:** Attach the four non-slip silicone mats to the bottom corners of the heavy-duty steel base. This prevents the base from sliding during use.
2. **Position PCB Pillars:** Place the four magnetic PCB pillars onto the steel base. These pillars can be repositioned as needed to support your circuit board.
3. **Attach Gooseneck Arms:** Secure the magnetic bases of the flexible gooseneck arms to any desired position on the steel base. The strong magnets will hold them firmly.
4. **Attach Magnifying Lamp:** Place the magnetic base of the 3X LED magnifying lamp onto the steel base. Position it to provide optimal lighting and magnification for your work area.
5. **Connect Power:** Plug the USB cable of the LED magnifying lamp into a compatible USB power source (e.g., computer, USB wall adapter).



Image: Magnetic PCB pillars securely placed on the steel base, illustrating their strong magnetic connection.



Image: A flexible gooseneck arm's magnetic base firmly attached to the steel work surface.

4. Operating Instructions

4.1 Positioning Components

- Adjust the flexible gooseneck arms to hold your workpiece or components using the alligator clamps. The arms are designed to maintain their position once set.
- For circuit boards, utilize the PCB pillars to elevate and stabilize the board, allowing for easier access during soldering or inspection.



Image: Features of the flexible gooseneck arms, highlighting their stability and stainless steel construction.

4.2 Using the LED Magnifying Lamp

- **Power On/Off:** Use the inline controller to turn the lamp on or off.
- **Adjust Brightness:** The lamp offers 10 brightness levels. Press the '+' or '-' buttons on the controller to adjust the intensity.
- **Change Color Temperature:** Select from 3 light colors (Yellow, Warm, White) by pressing the color mode button on the controller to suit your preference and task requirements.
- **Magnification:** The 3X real glass lens provides clear magnification for intricate details, reducing eye strain.

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Video: Demonstration of the magnetic helping hand with its LED magnifying lamp, showcasing the 3 color modes and 10 brightness levels for optimal illumination during work.



Image: Visual representation of the three distinct color modes (Yellow, Warm, White) offered by the LED magnifying lamp.

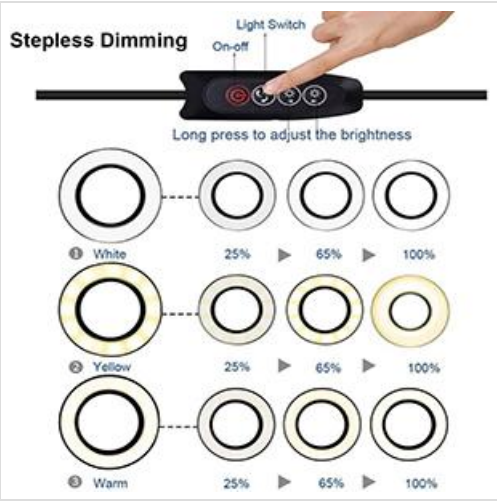


Image: An illustration detailing the stepless dimming capability, allowing precise adjustment of light intensity across all color modes.

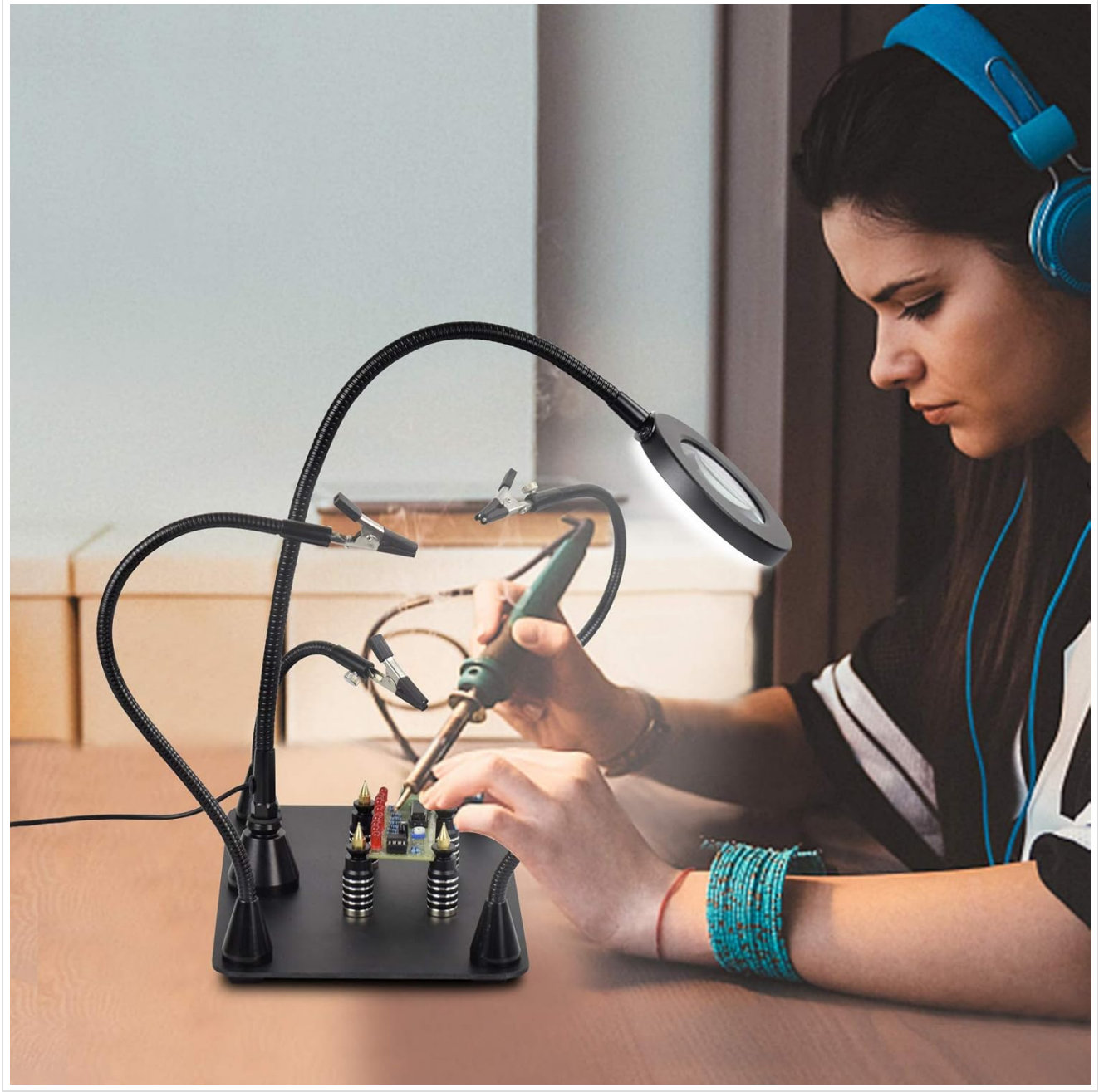


Image: A user engaged in soldering a circuit board, demonstrating the practical application of the helping hand and magnifying lamp.

5. Maintenance

- **Cleaning:** Wipe the steel base and gooseneck arms with a dry or slightly damp cloth to remove dust and debris. Avoid abrasive cleaners.
- **Magnifying Lens:** Clean the magnifying glass with a soft, lint-free cloth and a mild lens cleaning solution if necessary.
- **Alligator Clamps:** Inspect the rubber or plastic covers on the alligator clamps periodically. If they become damaged or worn, they can be replaced to maintain optimal grip and prevent scratching of components.
- **Heat Exposure:** When soldering, be mindful of direct heat exposure to the alligator clamps, as prolonged high temperatures may affect their protective coatings.

6. Troubleshooting

- **Arms Not Holding Position:** Ensure the magnetic bases of the gooseneck arms are clean and fully seated on

the steel base. The base should also be clean and free of obstructions.

- **Magnifying Lamp Not Lighting Up:** Check the USB cable connection to both the lamp and the power source. Ensure the power source is active and providing sufficient power.
- **Alligator Clamps Not Gripping Securely:** Inspect the protective covers on the clamps for wear or damage. If the grip is consistently weak, consider reinforcing the clamp jaws for a firmer hold.

7. Specifications

Feature	Detail
Brand	NEWACALOX
Model Number	4AB-3X
Base Material	Powder-coated Steel
Base Dimensions	9 x 6 inches
Gooseneck Arm Lengths	Two 9-inch, Two 4.5-inch
Magnifier Magnification	3X
LED Lamp Features	10 Brightness Levels, 3 Color Modes (Yellow, Warm, White)
Power Source	USB
Item Weight	1.84 Kilograms

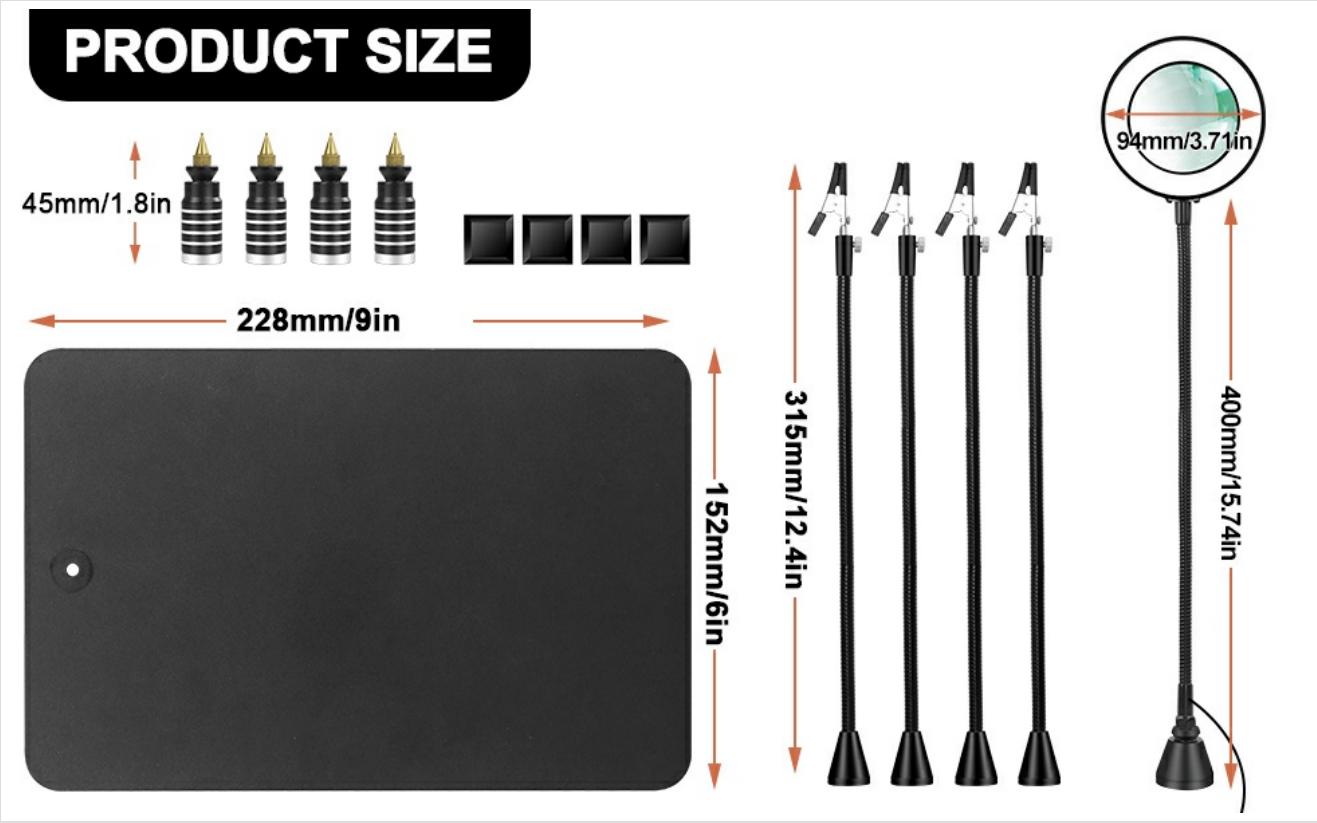


Image: Detailed product dimensions for the base, arms, and magnifying lamp.

8. Warranty Information

Specific warranty details for the NEWACALOX Magnetic Helping Hand, Model 4AB-3X, are typically provided with the product packaging or can be found on the manufacturer's official website. Please refer to these sources for the most accurate and up-to-date warranty terms and conditions.

9. Customer Support

For technical assistance, troubleshooting, or inquiries regarding your NEWACALOX Magnetic Helping Hand, please contact NEWACALOX customer support. Contact information can usually be found on the product packaging, the manufacturer's website, or through the retailer where the product was purchased.

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