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Toolour 9AB-S

Toolour Magnetic Helping Hands Soldering Work Station 9AB-S Instruction Manual

Model: 9AB-S

1. Product Overview

The Toolour 2-in-1 Magnetic Helping Hands Soldering Work Station is designed to assist with various precision tasks, including electronics soldering, desoldering, and repair. It features a heavy-duty magnetic base, flexible magnetic arms with alligator clips, a detachable 360° rotating hot air gun holder, and a USB-powered 3X magnifying lamp with adjustable brightness and color temperatures.



Figure 1: Fully assembled Toolour Magnetic Helping Hands Soldering Work Station.

2. Package Contents

Verify that all components are present in the package:

- 1 x Heavy-Duty Powder Coated Metal Base (11.4" x 7.1")
- 4 x Flexible Magnetic Metal Arms with Alligator Clips (2 x 12.2" long, 2 x 6" long)
- 1 x 3X Magnifying Lamp with USB Power (3 brightness colors, 10 dimmer levels)
- 1 x Detachable Hot Air Gun Holder Magic Arm with Desk Clamp
- 4 x Rubber Pads for Base

3. Setup Instructions

1. **Prepare the Base:** Place the heavy-duty metal base on a stable, flat work surface. Attach the four rubber pads to the bottom corners of the base to ensure stability and protect your worktop.
2. **Attach Flexible Arms:** The flexible arms have strong magnetic bases. Simply place them onto the metal base at desired positions. The magnetic connection allows for easy repositioning. Secure the alligator clips to hold your workpiece.
3. **Install Magnifying Lamp:** The 3X magnifying lamp also features a magnetic base. Place it on the metal base. Connect the USB cable to a suitable power source (e.g., USB adapter, computer USB port).
4. **Assemble Hot Air Gun Holder:**
    - Attach the magic arm to the desk clamp. Secure the clamp to the edge of your work surface.
    - Mount the hot air gun bracket onto the magic arm. The bracket can rotate 360 degrees for optimal positioning.
    - Alternatively, the hot air gun holder can be attached directly to the main magnetic base if preferred, using its magnetic attachment point.

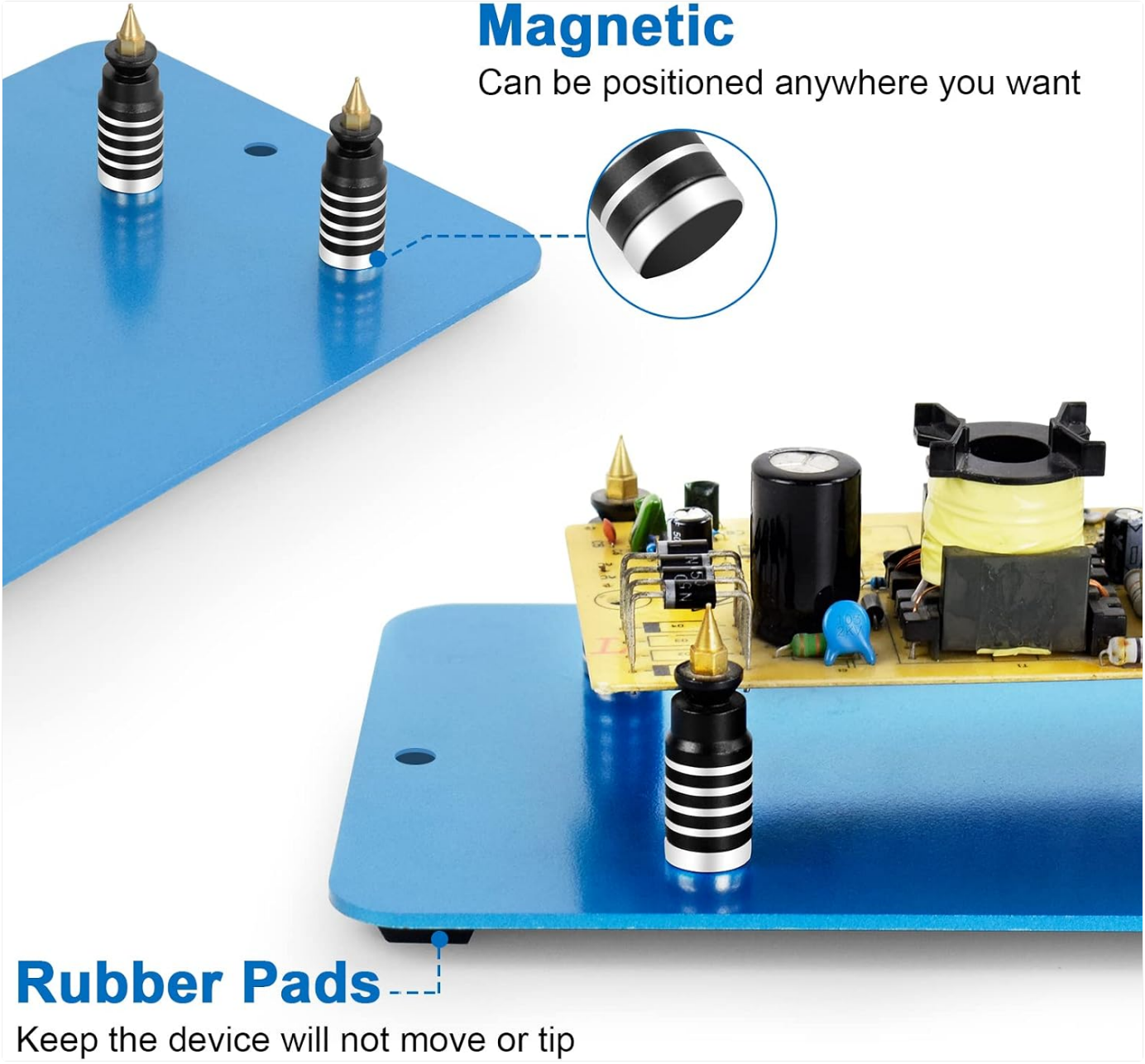


Figure 2: Magnetic base with rubber pads for stability and magnetic attachment points for arms.



Figure 3: Magic arm and clamp for the hot air gun holder, illustrating its adjustable features.

4. Operating Instructions

4.1 Using the Flexible Magnetic Arms

- Position the magnetic bases of the flexible arms anywhere on the steel base to suit your project's size and configuration.
- Adjust the gooseneck arms to hold your PCB or components securely using the alligator clips. The arms are designed to be repositioned easily.

4.2 Using the 3X Magnifying Lamp

- Once connected via USB, use the inline controller to turn the lamp on/off.
- Cycle through 3 brightness colors (white, warm, yellow) and 10 dimmer levels to achieve optimal lighting for your task.
- Adjust the flexible neck of the lamp to position the magnifier over your work area for detailed viewing.



Figure 4: The 3X Magnifier LED Light offers multiple color temperatures and brightness levels.

4.3 Using the 360° Hot Air Gun Holder

- Place your hot air gun into the holder.
- Adjust the magic arm and the 360° rotating bracket to position the hot air gun precisely over your workpiece. This allows for hands-free operation during desoldering or heat application.

4.4 Versatile Applications

The magic arm with the 1/4" thread can be used independently with other compatible accessories such as LED lights, cameras, or LCD monitors, expanding its utility beyond soldering tasks.



Figure 5: The magic arm can be used for various applications beyond soldering, such as holding cameras or microphones.

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Video 1: Demonstration of the Toolour 9AB 2-in-1 magnetic helping hand in use, showcasing its versatility and ease of adjustment.

5. Maintenance

- **Cleaning:** Regularly wipe down the metal base and arms with a dry or slightly damp cloth to remove dust and debris. Avoid using harsh chemicals that may damage the finish.
- **Magnifier Lens Care:** Clean the magnifying lamp's glass lens with a soft, lint-free cloth and a mild lens cleaning solution. Do not use abrasive materials.
- **Storage:** When not in use, the unit can be disassembled or folded for compact storage. Ensure all components are clean and dry before storing.

6. Troubleshooting

- **Arms Not Holding Securely:** Ensure the magnetic bases are clean and free of debris. Verify that the alligator clips are tightened properly. The strong magnetic base should provide sufficient grip on the metal plate.
- **Magnifier Lamp Not Lighting Up:** Check the USB connection to ensure it is firmly plugged into both the lamp and the power source. Try a different USB port or power adapter. Verify the inline controller is not damaged.
- **Hot Air Gun Holder Instability:** Ensure the desk clamp is securely tightened to a stable surface. If using the magnetic attachment, ensure it is firmly seated on the metal base. Adjust the magic arm's joints to be tight enough to support the weight of the hot air gun.

7. Specifications

Brand	Toolour
Model Number	9AB-S
Base Dimensions	11.4" x 7.1" (29cm x 18cm)
Base Material	Powder Coated Steel
Flexible Arm Lengths	2 x 12.2" (31cm), 2 x 6" (15cm)
Magnifier Magnification	3X
Magnifier Lighting	LED, 3 Color Modes, 10 Brightness Levels
Hot Air Gun Holder Rotation	360°
Magic Arm Thread	1/4"

8. Warranty and Support

Toolour offers a 3-month unconditional exchange or return policy for this product. If you encounter any missing accessories, operational issues, or require assistance, please contact Toolour customer support directly through your purchase platform for prompt resolution.

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