

## Weller WLIRK3012A

# Weller 30W/120V Soldering Iron Kit Instruction Manual

Model: WLIRK3012A | Brand: Weller

## INTRODUCTION

Solder skillfully and confidently with Weller's 30W Soldering Iron with LED Halo Ring. This comprehensive kit is designed for precision soldering tasks, offering enhanced visibility and comfortable handling. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your Weller Soldering Iron Kit.

## SAFETY INFORMATION

**WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**

- Always work in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate eye protection (safety glasses) when soldering.
- The soldering iron tip reaches very high temperatures. Avoid direct contact with skin or flammable materials.
- Always place the soldering iron in its designated stand when not in use.
- Unplug the soldering iron from the power outlet when not in use or before performing any maintenance.
- Keep out of reach of children.

## PACKAGE CONTENTS

Your Weller 30W/120V Soldering Iron Kit (WLIRK3012A) includes the following items:

- 30W Soldering Iron with LED Halo Ring
- Conical Tip 0.8mm (WLTC08IR30)
- Chisel Tip 4.0 mm (WLTC4IR30)
- Screwdriver Tip 4.0 mm (WLTS4IR30)
- Iron Stand
- Solder Aid
- Lead-Free Rosin Solder (small quantity)



Image: Complete Weller 30W Soldering Iron Kit with all included accessories.

## SETUP

### 1. Attaching and Changing Tips

The Weller Soldering Iron allows for easy tip changes to suit various soldering tasks. The kit includes conical, chisel, and screwdriver tips.

1. Ensure the soldering iron is unplugged and completely cool before changing tips.
2. Use a small screwdriver (not included for tip replacement, but a solder aid is provided) to loosen the retaining screw on the iron's barrel.
3. Carefully slide out the current tip.
4. Insert the desired tip into the barrel, ensuring it is fully seated.
5. Tighten the retaining screw to secure the tip. Do not overtighten.



Image: Assortment of soldering tips for different applications.

## **2. Power Connection**

Plug the soldering iron's power cord into a standard 120V AC electrical outlet. The LED Halo Ring will illuminate upon connection, indicating the iron is powered on and beginning to heat.

## **3. Using the Iron Stand**

Always use the included iron stand to safely rest the hot soldering iron when not actively soldering. This prevents accidental burns and damage to your work surface.

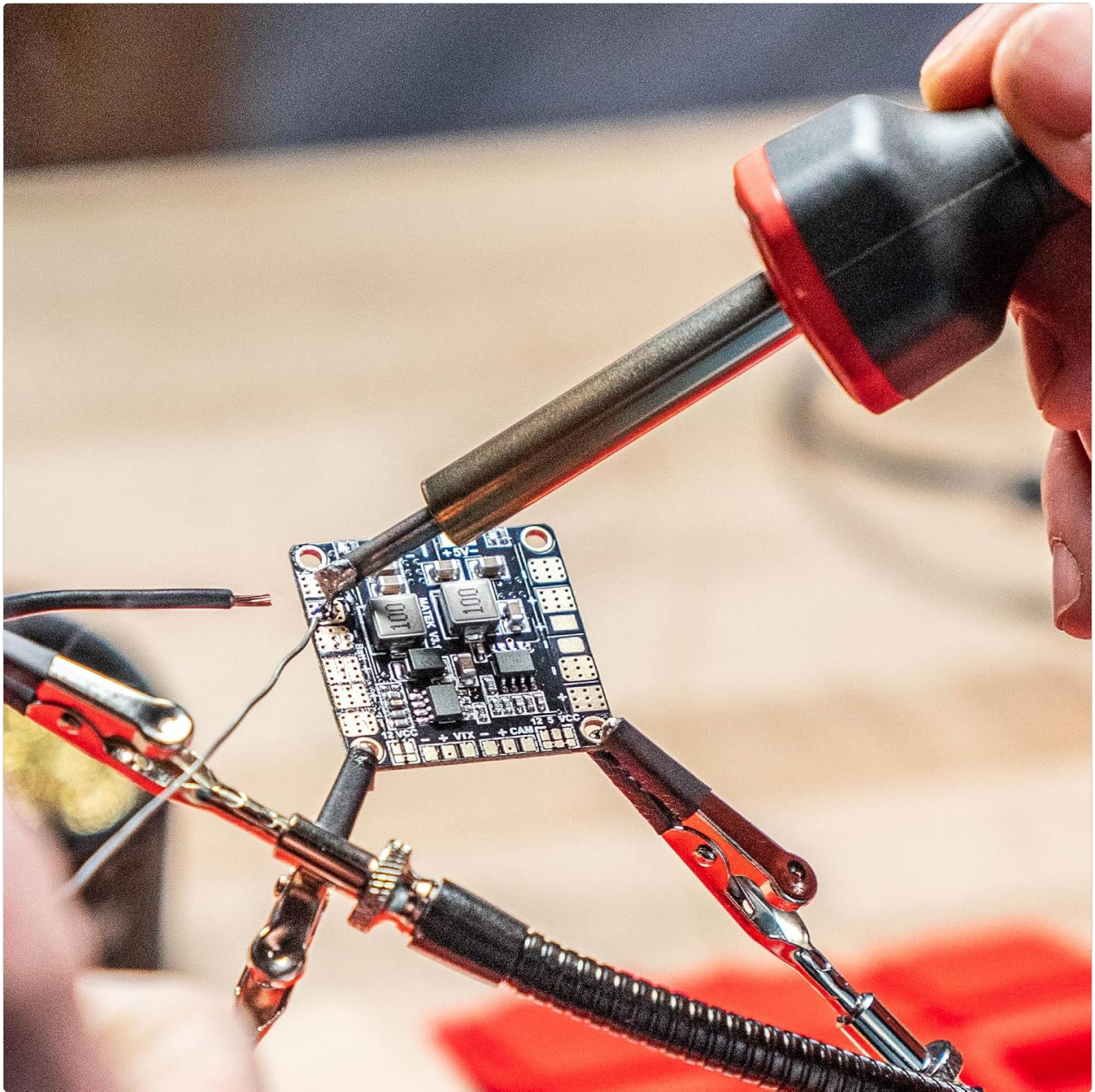


Image: Weller Soldering Iron placed in its dedicated safety stand.

## OPERATING INSTRUCTIONS

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### 1. Heating Up

The 30W heating element ensures rapid heat-up times, allowing you to begin soldering quickly. The iron will reach its operating temperature within minutes of being plugged in.

### 2. Tinning the Tip

Before first use, and periodically during operation, 'tin' the soldering iron tip. Apply a small amount of solder to the hot tip. This coats the tip with a thin layer of solder, improving heat transfer and preventing oxidation.

### 3. Soldering Technique

Touch the hot, tinned tip to both the component lead and the PCB pad simultaneously. Apply solder to the heated joint, not directly to the iron tip. Allow the solder to flow smoothly around the joint, creating a shiny, conical connection. Remove the solder first, then the iron.

## 4. Enhanced Visibility with LED Halo Ring

The integrated 360-degree LED Halo Ring illuminates your work area, providing superior visibility for precise soldering, especially in dimly lit environments or for intricate tasks.



Image: The LED Halo Ring provides bright, focused illumination on your soldering project.

## MAINTENANCE

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### 1. Tip Cleaning

Regularly clean the soldering iron tip to maintain optimal performance. Use a damp sponge or brass wool (solder aid) to wipe off excess solder and oxidation from the hot tip.



Image: Cleaning the soldering iron tip using a brass wool cleaner.

## 2. Tip Replacement

If a tip becomes severely worn or damaged and cannot be restored by cleaning and tinning, replace it following the instructions in the 'Setup' section.

## 3. Storage

Allow the soldering iron to cool completely before storing. Store it in a dry, safe place, preferably in its original packaging or a dedicated tool case, to protect the tip and handle from damage.

## TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                            | Possible Cause                                                      | Solution                                                                                |
|------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Iron not heating                   | Not plugged in; faulty outlet; internal issue.                      | Check power connection; try different outlet; contact support if issue persists.        |
| Solder not melting or flowing well | Tip is dirty or oxidized; insufficient heat; incorrect solder type. | Clean and re-tin tip; ensure iron has reached full temperature; use appropriate solder. |
| Tip discolors quickly              | Tip oxidation due to lack of tinning or improper cleaning.          | Ensure tip is properly tinned before and after use; clean regularly.                    |

## SPECIFICATIONS

| Feature             | Specification                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| Brand               | Weller                                                                                                                  |
| Model Number        | WLIRK3012A                                                                                                              |
| Wattage             | 30 watts                                                                                                                |
| Voltage             | 120 Volts                                                                                                               |
| Included Components | Soldering Iron, 3 Tips (Conical 0.8mm, Chisel 4.0mm, Screwdriver 4.0mm), Iron Stand, Solder Aid, Lead-Free Rosin Solder |
| Handle Material     | Plastic                                                                                                                 |
| Style               | Pencil                                                                                                                  |
| Head Style          | Chisel (default)                                                                                                        |
| Item Weight         | 5.6 ounces                                                                                                              |
| Product Dimensions  | 12 x 5 x 2 inches                                                                                                       |
| Country of Origin   | Mexico                                                                                                                  |

## WARRANTY AND SUPPORT

The Weller 30W/120V Soldering Iron Kit (WLIRK3012A) comes with a **7 Year Warranty**. For warranty claims, technical assistance, or additional support, please contact Weller customer service through their official website or the retailer where the product was purchased.

