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› Weller D550 Dual Heat Professional Soldering Gun User Manual

Weller D550

Weller D550 Dual Heat Professional Soldering Gun User Manual

Brand: Weller | Model: D550

1. INTRODUCTION AND OVERVIEW

The Weller D550 Dual Heat Professional Soldering Gun is a heavy-duty tool designed for various soldering applications. It features dual-heat settings, providing either 200 or 260 watts of power, making it suitable for both delicate and robust soldering tasks. Its pistol grip design and fingertip trigger heat selector ensure comfortable and precise operation. The heavy-gauge, high-efficiency, tin-plated copper tip heats rapidly, reaching operating temperature in approximately 6 seconds.

This product is manufactured in Mexico and is built for durability and professional use.



Figure 1: Weller D550 Dual Heat Professional Soldering Gun.

2. SETUP

2.1 Safety Precautions

- Always wear appropriate eye protection when soldering.
- Ensure adequate ventilation in your workspace to avoid inhaling fumes.
- Do not touch the soldering tip or shaft when the gun is hot.
- Place the soldering gun on a heat-resistant surface or a dedicated stand when not in use.
- Keep out of reach of children.

2.2 Unpacking and Inspection

Carefully remove the soldering gun and any accessories from its packaging. Inspect the unit for any signs of damage during shipping. If any damage is observed, do not use the tool and contact customer support.

D550

Weller[®] PROFESSIONAL

Dual Heat
260w/200w

Heavy Duty Soldering Gun Kit

- Two built in lights to help illuminate the work
- Tin plated copper soldering tip provides superior heat transfer

Pistolet à souder de grand rendement

- Deux lumières intégrées pour aider à éclairer le travail
- Pointe de soudage en cuivre étamé qui fournit un transfert supérieur de chaleur

Juego de pistola para soldar multiuso universal

- Dos luces integradas para ayudar a iluminar el trabajo
- La punta de cobre recubierta de estaño proporciona una transferencia de calor superior

SEVEN YEAR
7
WARRANTY

NOM

UL
LISTED
336B



WARNING: This product contains, or when used for soldering and similar applications produces, chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm).

PRECAUCIÓN: Los contenidos de este producto, al ser utilizados en soldadura o aplicaciones similares, producen químicos reconocidos por el Estado de California que causan cáncer y defectos de nacimiento o daños al sistema reproductivo.

Figure 2: Weller D550 Soldering Gun in its packaging.

2.3 Tip Installation

The Weller D550 comes with a pre-installed tin-plated copper tip. If you need to replace or install a new tip:

1. Ensure the soldering gun is unplugged and completely cool.
2. Loosen the screws holding the tip in place.
3. Carefully remove the old tip.
4. Insert the new tip, ensuring it is properly seated.
5. Tighten the screws securely, but do not overtighten.



Figure 3: Close-up view of the soldering tip.

2.4 Power Connection

Connect the power cord to a standard AC electrical outlet. The Weller D550 operates on AC power.



Figure 4: Power plug for the Weller D550.

3. OPERATING INSTRUCTIONS

3.1 Powering On and Heat Selection

The Weller D550 features a fingertip trigger for power activation and heat selection. The gun heats up in approximately 6 seconds.

- **Low Heat (200W):** Press the trigger partially to activate the lower heat setting.
- **High Heat (260W):** Press the trigger fully to activate the higher heat setting.
- Release the trigger to turn off the heating element.

3.2 Integrated Work Light

The soldering gun is equipped with an integrated LED light that illuminates the work area, providing better visibility for precise soldering tasks.

3.3 Soldering Technique

Ensure the tip is clean and tinned before use. Apply the hot tip to the joint to be soldered, allowing both the component lead and the pad to heat simultaneously. Once heated, apply solder to the joint, not directly to the tip. Allow the solder to flow smoothly and evenly around the joint. Remove the solder and then the soldering gun. Allow the joint to cool undisturbed.



Figure 5: Soldering a circuit board using the Weller D550.

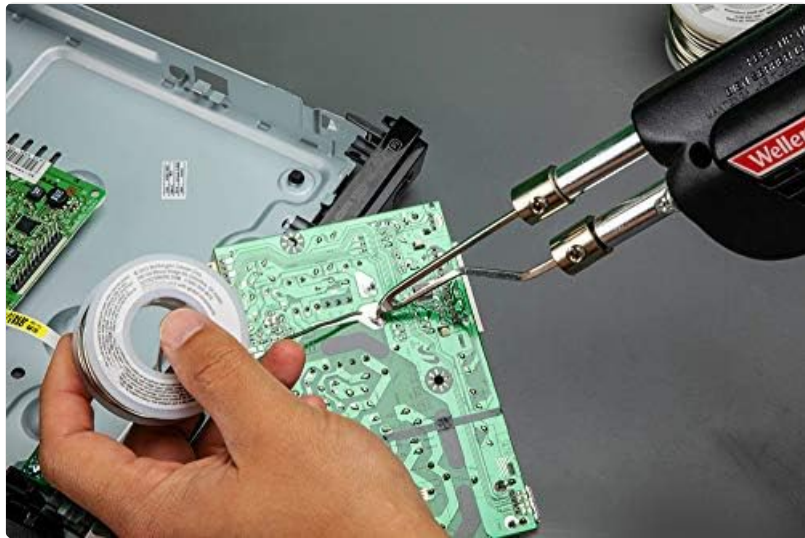


Figure 6: Detailed view of the soldering process.

4. MAINTENANCE

4.1 Tip Cleaning and Tinning

Regular cleaning and tinning of the soldering tip are crucial for optimal performance and longevity. Wipe the hot tip on a damp sponge or brass wool to remove excess solder and oxidation. Immediately re-tin the clean tip with a small amount of fresh solder to prevent oxidation.

4.2 General Care

- Store the soldering gun in a dry, safe place when not in use.
- Avoid dropping the tool, as this can damage internal components or the tip.
- Do not attempt to disassemble the main body of the soldering gun. Refer to qualified service personnel for repairs.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering gun does not heat up.	Not plugged in; faulty outlet; damaged cord; internal fault.	Check power connection; try a different outlet; inspect cord for damage; contact service if cord is damaged or internal fault suspected.
Tip not heating sufficiently.	Tip is loose or oxidized; incorrect heat setting.	Ensure tip is securely tightened and clean; select higher heat setting if needed.
Solder does not flow well.	Tip is dirty or not tinned; insufficient heat; incorrect solder type.	Clean and re-tin tip; ensure proper heat setting; use appropriate solder for the application.

6. SPECIFICATIONS

Feature	Detail
Brand	Weller
Model	D550
Wattage	200W / 260W (Dual Heat)
Power Source	AC
Item Weight	1.36 pounds
Item Length	9.5 Inches
Upper Temperature Rating	1100 Degrees Fahrenheit
Handle Material	Plastic
Head Style	Tin-plated copper tip
Country of Origin	Mexico
UPC	037103475411

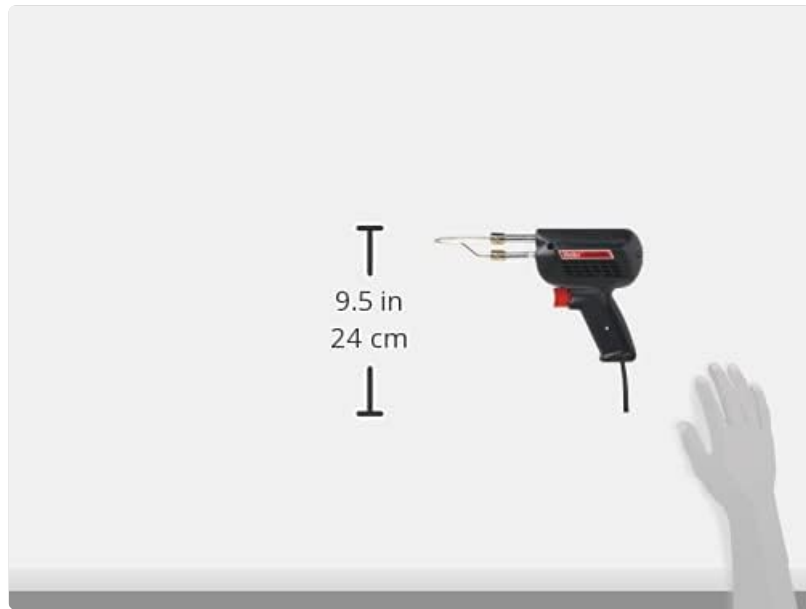


Figure 7: Product dimensions.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Weller D550 Dual Heat Professional Soldering Gun comes with a **7-Year Warranty** from the manufacturer, Apex Tool Group. Please retain your proof of purchase for warranty claims.

7.2 Additional Resources

For further assistance or detailed user guides, please refer to the official Weller website or the provided User Guide PDF:

- [User Guide \(PDF\)](#)
- [Visit the Weller Store on Amazon](#)