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› WnewTools 200W Heavy Duty Chisel Point Soldering Iron User Manual

WnewTools CHUB1113708

WnewTools 200W Heavy Duty Chisel Point Soldering Iron User Manual

MODEL: CHUB1113708

1. Introduction

Thank you for choosing the WnewTools 200W Heavy Duty Chisel Point Soldering Iron. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your new soldering iron. Please read this manual thoroughly before operation and retain it for future reference.



Figure 1: WnewTools 200W Heavy Duty Chisel Point Soldering Iron. This image shows the complete soldering iron with its wooden handle, metal heating element, chisel tip, and power cord.

2. Safety Instructions

Always observe the following safety precautions to prevent injury or damage to the product:

- **Voltage Check:** Before plugging in, verify that the input voltage of the soldering iron (AC 220V) matches your power supply.
- **Dry Environment:** This soldering iron must be kept dry. Do not use it in wet conditions or near liquids.
- **Initial Smoke:** During the first few uses, the heating element may produce a small amount of smoke. This is normal and will dissipate quickly.
- **Power Disconnection:** Always unplug the soldering iron from the power source before attempting to replace parts or perform any maintenance.
- **Proper Grounding:** Ensure the power and grounding wires are correctly connected before use.
- **Tip Temperature:** The soldering iron tip reaches very high temperatures (450-600°C). Never touch the tip or heating element when the iron is powered on or cooling down.
- **Ventilation:** Use the soldering iron in a well-ventilated area to avoid inhaling fumes from solder and flux.
- **Heat-Resistant Surface:** Always place the hot soldering iron on a heat-resistant stand or surface when not in use.
- **Storage:** Allow the soldering iron to cool completely before storing it.

3. Product Overview

3.1 Components

- **Wooden Handle:** Provides a comfortable and insulated grip.
- **Heating Element:** Converts electrical energy into heat.
- **Chisel Point Tip (Copper):** The working end for soldering applications.
- **Power Cord:** Connects the iron to the AC 220V power supply.

3.2 Key Features

- **Material:** Iron body with copper chisel point tip and wooden handle.
- **Input voltage:** AC 220V.
- **Power:** 200W for heavy-duty applications.
- **Temperature range:** 450-600°C.
- **Heavy Duty design** for robust performance.

4. Setup

4.1 Unpacking

Carefully remove the soldering iron from its packaging. Inspect the unit for any signs of damage. Ensure all components are present.

4.2 Initial Preparation

1. Place the soldering iron on a stable, heat-resistant surface or in a dedicated soldering iron stand.
2. Ensure the work area is well-ventilated.
3. Prepare your solder, flux, and a damp sponge or brass wool for tip cleaning.
4. Connect the power plug to a suitable AC 220V outlet. Ensure the outlet is properly grounded.

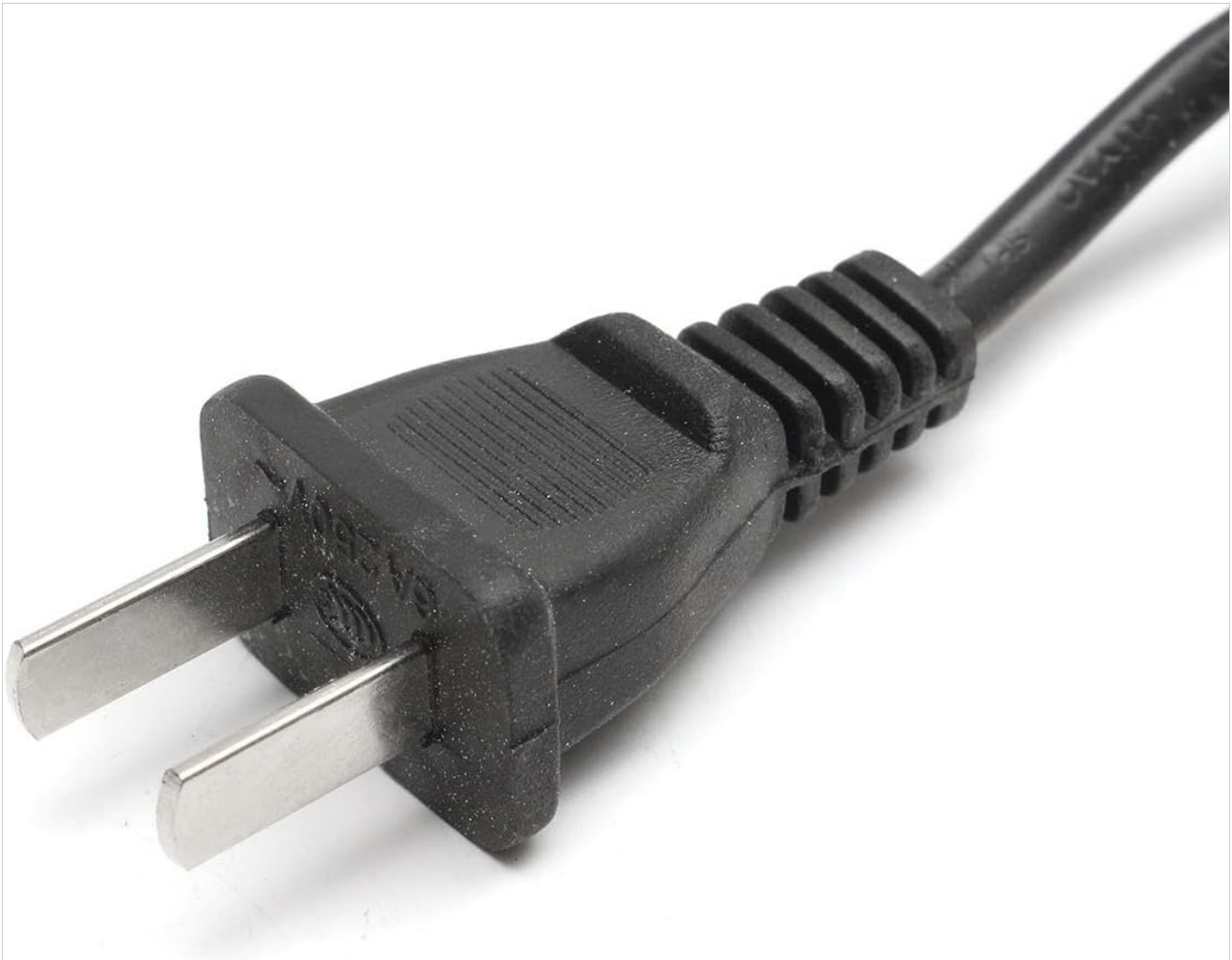


Figure 2: Power plug of the WhewTools Soldering Iron. This image displays the two-prong power plug, which connects the soldering iron to an electrical outlet.

5. Operating Instructions

5.1 Powering On and Heating

Once plugged in, the soldering iron will begin to heat up. Allow sufficient time for the iron to reach its operating temperature (450-600°C). The initial heating may produce a slight smoke, which is normal.

5.2 Soldering Process

1. **Tinning the Tip:** Before first use and periodically during operation, tin the tip by applying a small amount of solder to the heated tip. This helps protect the tip and improves heat transfer.
2. **Applying Heat:** Place the hot chisel tip against both the component lead and the PCB pad (or work piece) you wish to solder. Ensure good contact for efficient heat transfer.
3. **Applying Solder:** After a few seconds, touch the solder to the junction of the tip and the work piece. The solder should melt and flow smoothly, forming a shiny, conical joint. Do not apply solder directly to the iron tip.
4. **Removing Iron:** Once the solder has flowed correctly, remove the solder wire, then remove the soldering iron. Allow the joint to cool undisturbed.
5. **Tip Cleaning:** Regularly clean the tip on a damp sponge or brass wool to remove excess solder and oxidation.



Figure 3: Close-up of the chisel point tip. This image provides a detailed view of the copper chisel tip, which is ideal for heavy-duty soldering tasks.

6. Maintenance

6.1 Tip Care

- **Regular Tinning:** Always tin the tip before and after each soldering session to prevent oxidation and prolong tip life.
- **Oxide Layer Removal:** After several uses, if the tip becomes heavily oxidized and solder no longer adheres, carefully remove the tip (only when cool and unplugged) and gently polish the oxide layer with fine sandpaper. Re-tin the tip immediately after cleaning. Avoid prolonged oxide layer blockage, which can make tip removal difficult.
- **Flux Usage:** To improve tip life, use environmentally friendly, low-acid, halogen-free flux products.
- **Optimal Temperature for Tinning:** When re-tinning a tip that is not accepting solder, control the tip temperature to approximately 250°C for best results, if possible.

6.2 Cleaning and Storage

- **Cleaning:** Wipe the body of the soldering iron with a dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Ensure the soldering iron is completely cool before storing it in a dry, safe place, away from children and flammable materials.

7. Troubleshooting

- **Iron Not Heating:**

- Check if the power cord is securely plugged into a working AC 220V outlet.
- Verify the power outlet is functional by testing with another appliance.
- Ensure there are no visible damages to the power cord or the iron itself.

- **Solder Not Sticking to Tip (Poor Wetting):**

- The tip may be oxidized. Clean the tip thoroughly using a damp sponge or brass wool.
- Re-tin the tip immediately after cleaning.
- Ensure you are using appropriate flux and solder.
- If severe, refer to Section 6.1 for oxide layer removal.

- **Excessive Smoke (after initial use):**

- Ensure the tip is clean and properly tinned. Excess flux or contaminants on the tip can cause smoke.
- Verify the soldering iron is not overheating due to incorrect voltage.

8. Specifications

Feature	Specification
Brand	WnewTools
Model Number	CHUB1113708
Material	Iron body, Copper tip, Wooden handle
Input Voltage	AC 220V
Power	200W
Temperature Range	450-600°C
Soldering Iron Length	29 cm (11.42 inches)
Chisel Point Tip Width	15 mm
Cable Length	120 cm
Net Weight	Approx. 0.339 Kg (11.3 ounces)
UPC	769902885893



Figure 4: Dimensions of the WnewTools 200W Soldering Iron. This image illustrates the key measurements of the soldering iron, including its total length (29cm) and handle length (11.5cm).

9. Warranty and Support

Specific warranty details for the WnewTools 200W Heavy Duty Chisel Point Soldering Iron are not provided in the product information. For warranty claims, technical support, or further assistance, please contact the retailer or manufacturer directly with your purchase details.

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