

diymore Model-501

Diymore Cordless Soldering Iron Kit Model-501 User Manual

Model: Model-501

1. INTRODUCTION

Thank you for choosing the Diymore Cordless Soldering Iron Kit Model-501. This device is designed for precision soldering tasks, offering portability and efficient performance. This manual provides essential information for safe and effective use, including setup, operation, maintenance, and troubleshooting.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **High Temperature:** The soldering iron tip reaches very high temperatures (up to 842°F / 450°C). Avoid direct contact with skin or flammable materials.
- **Ventilation:** Use in a well-ventilated area to avoid inhaling fumes produced during soldering.
- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splashes.
- **Proper Handling:** Always place the soldering iron in its stand when not in use. Do not leave it unattended while hot.
- **Power Source:** Use only the provided Type-C cable for charging. Do not use damaged cables or chargers.
- **Children and Pets:** Keep the soldering iron out of reach of children and pets.
- **Storage:** Ensure the soldering iron is completely cool before storing it.

3. PACKAGE CONTENTS

Verify that all items are present in your kit:

- 1 x Diymore Cordless Soldering Iron (Model-501)
- 3 x Precision Soldering Tips
- 1 x Storage Stand
- 1 x Type-C Charging Cable

- 1 x User Manual



This diagram details the kit contents, including the portable storage case, stand, soldering iron, tips, charging cable, and instruction manual. It also labels the device's buttons for turning on/off, increasing/decreasing temperature, and the convenient soldering iron stand design.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your Diymore Cordless Soldering Iron:

INFORMATION



A clear diagram identifying the main components of the soldering iron, such as the charging port, power switch, temperature increase/reduction buttons, digital display screen, and the soldering iron tip. Dimensions are also indicated.

Key Features:

- **Fast Heating:** Reaches working temperature in approximately 3 seconds.
- **LED Digital Display:** Shows real-time temperature and battery status.
- **Rechargeable & Cordless:** Integrated 1400mAh battery with Type-C fast charging.
- **Auto Sleep Function:** Activates when idle to conserve battery and enhance safety.
- **Temperature Control:** Adjustable range from 356°F to 842°F (180°C to 450°C).

5. SETUP

5.1 Attaching a Soldering Tip

1. Ensure the soldering iron is off and cool.
2. Select the desired precision soldering tip.
3. Gently insert the tip into the heating element receptacle until it is securely seated. Do not force it.

PLUG IN DESIGN

Easy to plug and replace



This image demonstrates the plug-in design of the soldering tips, allowing for easy and quick replacement, enhancing the user's ability to adapt to different soldering tasks.

5.2 Initial Charging

Before first use, fully charge the soldering iron.

1. Connect the provided Type-C charging cable to the charging port on the soldering iron.
2. Connect the other end of the cable to a compatible USB power adapter (not included).
3. The LED digital display will show the charging progress. A full charge is indicated by 100% on the display.

TYPE-C PORT

Faster charging, convenient and fast,
with multiple power supply
options to choose from.



A detailed view of the Type-C charging port, emphasizing its fast charging capability. The image also displays the digital screen showing battery percentage during charging (e.g., 5% charging, 100% charge complete).

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To turn on: Press and hold the power switch button for 3 seconds. The display will illuminate.
- To turn off: Press and hold the power switch button for 3 seconds. The display will turn off.

6.2 Temperature Adjustment

- Use the "+" button to increase the temperature. Each click increases the temperature by 5°C. Long press to rapidly increase temperature to the maximum of 450°C (842°F).
- Use the "-" button to decrease the temperature. Each click decreases the temperature by 5°C. Long press to rapidly decrease temperature to the minimum of 180°C (356°F).

LED DIGITAL LARGE SCREEN

Free switching between °C and °F



This image illustrates the soldering iron's large LED digital display, which shows the real-time temperature. It also highlights the ability to switch between Celsius and Fahrenheit temperature units.

6.3 Celsius/Fahrenheit Switching

- Press the "M" button (Mode button) to cycle between Celsius (°C) and Fahrenheit (°F) display modes.

6.4 Soldering Operation

1. Ensure the soldering iron is heated to the desired temperature.
2. Clean the soldering tip with a damp sponge or brass wool before and after use.
3. Apply a small amount of solder to the tip (tinning) to improve heat transfer.
4. Place the hot tip against the components to be soldered, allowing them to heat up.
5. Apply solder to the heated joint, not directly to the iron tip. Allow the solder to flow smoothly.
6. Remove the soldering iron and allow the joint to cool naturally.



A user is shown performing soldering work on a circuit board with the Diymore Cordless Soldering Iron. The image emphasizes features like intelligent temperature control, 10-second rapid heating, USB-C charging, and digital display.

7. AUTO SLEEP FUNCTION

The soldering iron features an intelligent auto-sleep mode to conserve battery life and enhance safety. If the device is idle for a set period (typically 10 minutes), it will automatically enter sleep mode, reducing the tip temperature. To reactivate, simply pick up the iron or press any button.

8. MAINTENANCE

8.1 Cleaning the Soldering Tip

- Regularly clean the soldering tip using a damp sponge or brass wool to remove excess solder and oxidation.
- Ensure the tip is tinned with fresh solder after cleaning to prevent oxidation.

8.2 Replacing Soldering Tips

When a tip becomes worn or damaged, replace it with a new one:

1. Ensure the soldering iron is off and completely cool.
2. Carefully pull out the old tip from the heating element.
3. Insert the new tip firmly into the receptacle.

8.3 General Care

- Keep the device clean and free from dust and debris.
- Avoid dropping the soldering iron or subjecting it to strong impacts.
- Store the soldering iron in its protective case or stand when not in use.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering iron does not turn on.	Low battery or no charge.	Charge the soldering iron using the Type-C cable.

Problem	Possible Cause	Solution
Soldering iron does not heat up.	Tip not properly installed or damaged.	Ensure tip is securely inserted. Replace tip if damaged.
Temperature display is inaccurate.	Sensor issue or extreme environmental conditions.	Ensure proper tip installation. If problem persists, contact support.
Battery drains quickly.	Frequent use at high temperatures or battery degradation.	Ensure auto-sleep is functioning. Charge fully before use.

10. SPECIFICATIONS

Feature	Detail
Model Number	Model-501
Brand	diymore
Power Source	USB Type-C, Built-in 1400mAh Battery
Wattage	8 watts
Temperature Range	356°F - 842°F (180°C - 450°C)
Heating Element	Electric
Heat-up Time	Approx. 3 seconds
Item Length	6.5 Inches (165mm)
Item Weight	2.5 Ounces (70g)
Handle Material	Plastic

11. PRODUCT VIDEO

Your browser does not support the video tag.

This video provides a visual guide to the Diymore Cordless Soldering Iron Kit, showcasing its design, key features, and basic operation.

12. WARRANTY AND SUPPORT

Diymore is committed to providing reliable products and customer satisfaction.

- **18-Month Warranty:** This product is covered by an 18-month warranty from the date of purchase.
- **30-Day Return Policy:** You may return the product within 30 days of purchase for any reason.
- **24-Hour Customer Support:** For any questions, issues, or support needs, please contact our customer service team.

For further assistance, please visit the [Diymore Store on Amazon](#).

