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Fafeicy Fafeicyam1biuce26

Fafeicy Mini Handheld Spot Welder Instruction Manual

Model: Fafeicyam1biuce26

Brand: Fafeicy

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your Fafeicy Mini Handheld Spot Welder. Please read this manual thoroughly before using the device and retain it for future reference. This device is designed for household daily or small spot welding/end welding tasks.

Safety Information

- Always wear appropriate personal protective equipment, including safety glasses, when operating the spot welder.
- Ensure the welding area is well-ventilated.
- Keep the device away from flammable materials.
- Do not operate the device with wet hands or in damp conditions.
- Keep children and unauthorized personnel away from the operating area.
- After welding, allow a cooling time of approximately 10 seconds for the welding object.

2. Package Contents

Verify that all items listed below are included in your package:

- 1 x Fafeicy Mini Handheld Spot Welder
- 1 x USB Type-C Charging Cable
- 2 x Bonding Wires (Welding Pens)
- 1 x User Manual (This document)



Figure 2.1: Included accessories: USB Type-C charging cable and two bonding wires.

3. Product Overview

Familiarize yourself with the components of your spot welder.



Figure 3.1: Top view of the Fafeicy Mini Handheld Spot Welder with bonding wires connected. Shows the main unit, two red buttons, and the connection points for the welding pens.



Figure 3.2: Side view showing the USB Type-C input port for charging, labeled "INPUT DC:4.5V-5.5V ≥2.5A".

Key Components:

- **Main Unit:** The compact aluminum alloy body housing the battery and control circuitry.
- **Control Buttons:** Two red buttons on the top surface. One for power on/off (long press) and adjusting welding levels (short press).
- **Welding Pen Ports:** Two gold-colored ports on one end for connecting the bonding wires.
- **USB Type-C Input Port:** Located on the side for charging the internal battery.
- **Bonding Wires (Welding Pens):** Cables with copper tips for making contact with the welding object.
- **Indicator Lights:** These lights indicate power status, welding level, or battery status.

4. Specifications

Feature	Specification
Item Type	Spot Welder
Product Material	Aluminium Alloy
Battery Capacity	1 x 5000mAh Lithium Battery (built-in)
Output Voltage	Maximum 4.2V
Output Current	Maximum 500A

Feature	Specification
Design Current	Maximum 1000A
Welding Medium	0.1-0.15mm plate, iron plate, stainless steel
Welding Time	A few milliseconds
Charging Voltage	4.5V ~ 5.5V (current ≤2.5A)
Item Weight	Approximately 485 grams (1.07 pounds)
Dimensions	Approximately 7.09 x 4.72 x 1.97 inches
Model Number	Fafeicyam1biuce26

5. Setup

5.1 Charging the Device

Before first use, ensure the spot welder is fully charged.

1. Connect the provided USB Type-C charging cable to the input port on the side of the spot welder (refer to Figure 3.2).
2. Connect the other end of the USB cable to a compatible USB power adapter (4.5V-5.5V, current ≤2.5A).
3. The indicator lights will show the charging status. Charge until the battery is full.

5.2 Connecting the Bonding Wires

Attach the welding pens to the main unit.

1. Insert the connector ends of the two bonding wires into the gold-colored ports on the front of the spot welder.
2. Ensure a secure connection.



Figure 5.1: The spot welder with both bonding wires properly connected to the front ports.

6. Operation

6.1 Power On/Off and Level Adjustment

1. **Power On:** Long press one of the red control buttons on the top surface of the device until the indicator lights activate.
2. **Adjust Welding Level:** Short press the same red control button to cycle through the available welding power levels. Select the appropriate level for your material. The indicator lights will typically show the selected level.
3. **Power Off:** Long press the control button again until the indicator lights turn off.

6.2 Spot Welding Procedure

Follow these steps for effective spot welding:

1. **Prepare the Workpiece:** Ensure the welding object is clean, free of rust or contaminants, and in a flat state.
2. **Position the Workpiece:** Fix the items to be spot welded securely.
3. **Apply Welding Pens:** With the device powered on and the desired welding level selected, touch the copper tips of the two bonding wires (welding pens) to the welding object. Ensure both tips make firm and simultaneous contact with the material at the desired welding point.
4. **Automatic Welding:** The device will automatically output a welding pulse when the soldering pins are connected to the workpiece. The welding process occurs in milliseconds.

5. **Cooling Time:** After each weld, allow a cooling time of approximately 10 seconds before handling the welded object or performing another weld in the same area.

Note: The device is designed for welding 0.1-0.15mm plates, iron plates, and stainless steel. It is primarily used for welding cylindrical batteries, nickel-hydrogen batteries, and lithium batteries.

7. Maintenance

- **Cleaning:** Keep the device and welding pens clean and free of debris. Use a dry cloth to wipe the main unit.
- **Storage:** Store the spot welder in a dry, cool place away from direct sunlight and moisture when not in use.
- **Battery Care:** For optimal battery life, avoid completely discharging the battery frequently. Recharge the device when the battery level is low.
- **Welding Pen Inspection:** Regularly inspect the copper tips of the bonding wires for wear or damage. Replace if necessary to ensure good electrical contact.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Charge the device using the provided USB Type-C cable.
Weak or no weld.	◦ Incorrect welding level selected. ◦ Poor contact with workpiece. ◦ Workpiece surface is dirty or oxidized. ◦ Welding pens are worn or damaged.	◦ Increase the welding power level. ◦ Ensure firm and simultaneous contact of both welding pen tips. ◦ Clean the workpiece surface thoroughly. ◦ Inspect and replace welding pens if necessary.
Device automatically shuts down.	Low battery voltage.	Recharge the device. The device has an automatic shut-down feature under low pressure to protect the battery.

9. Warranty and Support

Fafeicy products are manufactured to high-quality standards. For any questions, technical support, or warranty inquiries, please contact your retailer or the Fafeicy customer service department. Please refer to your purchase documentation for specific warranty terms and contact information.
Manufacturer: Fafeicy
Model: Fafeicyam1biuce26

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