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Pro'sKit SI186A

Pro'sKit SI186A Digital Control Soldering Iron User Manual

Model: SI186A

1. INTRODUCTION

Thank you for choosing the Pro'sKit SI186A Digital Control Soldering Iron. This advanced soldering iron features a 60W ceramic heating element for rapid heat-up and recovery, a precise LED digital display, and intelligent functions such as temperature memory and calibration. This manual provides essential information for safe and effective use, setup, operation, maintenance, and troubleshooting of your device.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before using the soldering iron. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Always use in a well-ventilated area.** Soldering fumes can be harmful.
- **The soldering iron tip reaches very high temperatures.** Avoid direct contact with skin or flammable materials.
- **Always place the soldering iron in a suitable, heat-resistant stand** when not in use.
- **Do not use the soldering iron near flammable liquids or gases.**
- **Ensure the power cord is not damaged** and is properly connected to a grounded outlet.
- **Do not immerse the soldering iron in water or other liquids.**
- **Unplug the soldering iron from the power outlet when not in use or before cleaning/maintenance.**
- **Keep out of reach of children.**
- **Wear appropriate personal protective equipment (PPE)** such as safety glasses to protect against solder splashes.

3. PRODUCT OVERVIEW

The Pro'sKit SI186A is designed for precision soldering tasks, featuring a robust ceramic heating element and digital temperature control.

DIGITAL CONTROL SOLDERING IRON

// Digital Control

60W / 500°C

// Temp. Calibration

// Ceramic Heater



Digital Control Soldering Iron: Overview of the iron highlighting its digital control, temperature calibration, and ceramic heater.

- **Temperature Memory**
- **Temperature Calibration**
- **Ceramic Heating Element**



Key Features: Illustrates the temperature memory, temperature calibration, and ceramic heating element.

3.1 Key Features

- **Digital Control:** Precise temperature adjustment and stable output.
- **Temperature Memory:** Stores frequently used temperature settings for quick recall.
- **Temperature Calibration:** Allows for fine-tuning the displayed temperature to match actual tip temperature.
- **Ceramic Heating Element:** 60W power for fast heat-up and excellent thermal recovery.
- **LED Display:** Clear, real-time temperature readout.



The bright LED display shows the current temperature.

- **Ergonomic Handle:** Soft grip for comfortable and extended use.

3.2 Components

Familiarize yourself with the main parts of your soldering iron:



LED Display and Control Buttons: Shows current temperature and allows adjustment.



60W Ceramic Heater: The heating element and replaceable soldering tip.



Soft Grip Handle: Provides comfort and control during operation.

4. SETUP

1. **Unpack:** Carefully remove the soldering iron and all accessories from the packaging.
2. **Inspect:** Check the soldering iron and power cord for any visible damage. Do not use if damaged.
3. **Attach Tip:** Ensure the desired soldering tip is securely fastened to the heating element assembly. The iron comes with a standard tip pre-installed.
4. **Placement:** Place the soldering iron in a stable, heat-resistant stand on a non-flammable surface.
5. **Power Connection:** Plug the power cord into a standard 110V AC grounded electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off



Press the ****** button to turn the iron on or off.

- To turn on: Press and hold the ****** button for approximately 2 seconds. The LED display will illuminate and show the current temperature.
- To turn off: Press and hold the ****** button for approximately 2 seconds. The LED display will turn off.

5.2 Adjusting Temperature

The temperature can be adjusted between 200°C (392°F) and 500°C (932°F).

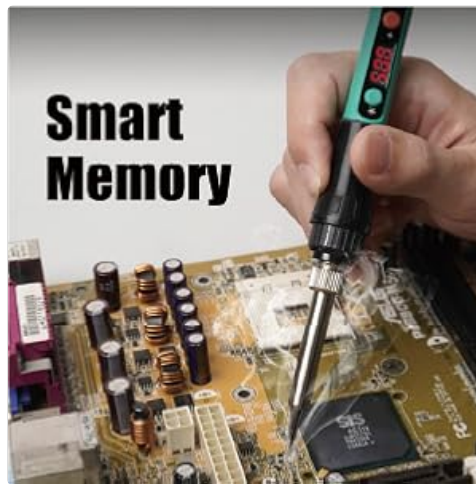
- While the iron is on, press the **+** button to increase the temperature.

- Press the '+' button to decrease the temperature.
- Each press adjusts the temperature in 5°C increments. Holding the button will rapidly change the temperature.
- The LED display will show the set temperature, then revert to the actual tip temperature as it heats up or cools down.

5.3 Temperature Memory Function

The soldering iron can store up to three frequently used temperature settings (P1, P2, P3).

- **To Save a Temperature:** Set the desired temperature using the '+' and '-' buttons. Then, press and hold the '*' button briefly (less than 2 seconds) until "P1", "P2", or "P3" flashes on the display. Use the '+' or '-' buttons to select the memory slot, then press '*' again to confirm.
- **To Recall a Temperature:** Briefly press the '*' button (less than 2 seconds). The display will show "P1", "P2", or "P3". Use the '+' or '-' buttons to cycle through the stored settings, then press '*' again to select and activate the desired memory setting.



Smart Memory: Quickly recall your preferred temperature settings for efficient work.

5.4 Temperature Calibration

If you suspect the displayed temperature is inaccurate, you can calibrate the iron. This requires a reliable external thermometer for measuring tip temperature.

1. Turn on the soldering iron and set it to a stable temperature (e.g., 350°C).
2. Allow the iron to stabilize for several minutes.
3. Measure the actual tip temperature using an external thermometer.
4. While the iron is on, press and hold both the '+' and '-' buttons simultaneously for approximately 3 seconds. The display will show "CAL" and then the current calibration offset.
5. Use the '+' or '-' buttons to adjust the displayed temperature until it matches the actual temperature measured by your external thermometer.
6. Press the '*' button to save the calibration and exit the calibration mode.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your soldering iron.

- **Tip Cleaning:** Always clean the soldering tip before and after each use. Use a damp sponge or brass wool to wipe off excess solder and oxidation.
- **Tip Tinning:** After cleaning, "tin" the tip by applying a small amount of fresh solder. This protects the tip from oxidation and improves heat transfer.

- **Tip Replacement:** If the tip becomes pitted, corroded, or no longer accepts solder, it should be replaced. Ensure the iron is unplugged and cooled before changing tips.
- **General Cleaning:** Wipe the body of the soldering iron with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the cooled soldering iron in a dry, safe place, away from dust and moisture.

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--|--|--|
| Iron does not heat up. | Not plugged in; power outlet fault; internal fault. | Check power connection; test outlet with another device; contact support if issue persists. |
| Temperature display is erratic or incorrect. | Loose tip; sensor issue; needs calibration. | Ensure tip is securely fastened; perform temperature calibration (Section 5.4); contact support. |
| Solder does not melt or adhere well. | Temperature too low; tip is oxidized/dirty; incorrect solder type. | Increase temperature; clean and tin the tip (Section 6); ensure appropriate solder is used. |
| Iron heats up slowly. | Aging heating element; power supply issue. | Ensure stable power supply; contact support for potential component replacement. |

8. SPECIFICATIONS

Model: SI186A

Brand: Pro'sKit

Power Source: Corded Electric

Wattage: 60 watts

Input Voltage: 110V (Standard for US market)

Temperature Range: 200°C - 500°C (392°F - 932°F)

Heating Element: Ceramic

Display: LED Digital

Special Features: Temperature Memory, Temperature Calibration, Ergo Handles

Handle Material: Plastic

Item Weight: 120 Grams (approx. 4.2 ounces)

Product Dimensions: 8.07 x 0.08 x 0.1 inches (approximate, for the iron body)

9. WARRANTY AND SUPPORT

Pro'sKit products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official Pro'sKit website or contact your local distributor. Please have your model number (SI186A) and purchase date available when contacting support.

Online Resources: [Visit the Pro'sKit Store on Amazon](#)

