

BAKER
INSTRUMENTS

1 YEAR
WARRANTY

Model **B9000**

3-Channel Soldering Station
with soldering iron and
safety rest, 120V



Instruction Manual

www.Baker-Instruments.com

Table of Content

Introduction.....	3
Product Quality	3
Safety.....	3
<i>Pre-operational Safety Checklist.....</i>	<i>3</i>
<i>Operational Safety Checklist</i>	<i>4</i>
Features	5
Included	5
Specifications.....	6
Instrument Description.....	7
Operating Instructions	8
<i>Setting Pre-Set Memory Channels.....</i>	<i>9</i>
<i>Selecting Temperature Unit of Measure.....</i>	<i>9</i>
<i>Enabling/Disabling the Soldering Iron Sleep Function</i>	<i>10</i>
<i>Enabling/Disabling the Auto Power OFF Function.....</i>	<i>10</i>
<i>Setting Temperature Compensation.....</i>	<i>11</i>
Applications	11
Care and Maintenance	12
Troubleshooting Guide	12

Introduction

Thank you for purchasing your BAKER 3-Channel Soldering Station with soldering iron and safety rest. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your product will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet the stated product specifications.

Safety

Pre-operational Safety Checklist

- Examine the power cable and soldering station for damage.
- Do not operate this unit without a properly grounded, properly polarized power cord. Permacolor mercury-free thermometer.
- Connecting the control unit incorrectly poses a risk of injury due to electric shock and can damage the device.
- Ensure that the cord does not create a slip/trip hazard.
- Ensure the workspace is well ventilated to prevent fumes in the breathing zone e.g. use in open area with cross ventilation or with fume extraction system.
- Check condition of soldering tip. Replace if damaged.
- Ensure tip is "tinned" and free from waste build-up. Once the tip has warmed-up, wipe on a damp sponge to clean it.
- Leave the soldering iron in the stand when warming up.
- Never leave a soldering iron unattended when turned on or still hot. Unplug soldering iron when not in use.

Operational Safety Checklist

- Do not plug in and turn on until the tip element has been checked, or replaced and tightened.
- Never touch the soldering tip.
- Do not use the soldering tool in a damp or wet environment.
- Always wear safety glasses. Smoke and hot embers can often result when soft soldering.
- Never use on live or voltage-carrying parts.
- Avoid positioning your head directly over the soldering process. Soldering often creates fumes that can be toxic.
- Avoid prolonged use. This could overheat the tip element causing it to fail or oxidise.
- Always allow the soldering iron to reach the desired temperature. This can take several minutes.
- Ensure electrical cords are well clear of the soldering process.
- Avoid touching earthed objects such as pipes, heaters, cookers and refrigerators.
- Wash your hands after using solder – many soft solders contain toxic lead products.
- Never leave the soldering station unattended.
- Turn off and wait until the tip element has cooled down before storing.
- The soldering tip becomes very hot during soldering work. There is a risk of burns from touching the tip. After the soldering process, the soldering tool and the workpiece holder are still hot.

Features

- ESD-safe station, iron, and heat-resistant silicon cable for safe handling
- High power performance soldering station
- Three preset memory channels
- High precision soldering iron with tool-less tip change
- Intuitive heat control knob
- Ergonomic handle
- Secured iron storage for maximum protection
- Easy-to-read LCD display
- Auto shut-off and sleep modes

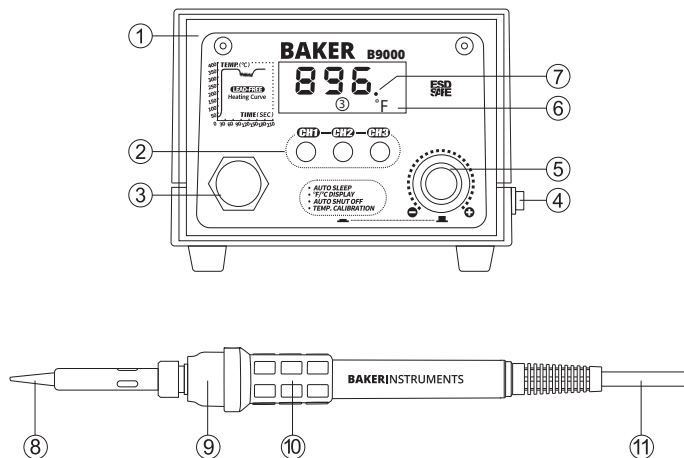
Included

- Soldering Station
- Soldering Iron
- Safety Rest
- Tip Cleaner
- Cleaning Sponge
- Power Cord

Specifications

Power Supply:	120V/60Hz
Rate Power:	22W
Max. Power:	120W
Temperature Range:	212 to 896°F (100 to 480°C)
Accuracy:	±10%
Stability:	±35.6°F (2°C)
Temperature Correction Type:	Digital PID correction
Display:	LCD
Channels:	3
ESD Safe:	Yes
Product Certifications:	CE, RoHS, FCC, ETL, CSA
Operating Temperature:	32 to 104°F (0 to 40°C)
Storage Temperature:	-4 to 176°F (-20 to 80°C)
Operating Humidity Range:	35 to 45%
Storage Humidity Range:	35 to 45%
Dimensions:	5.43 x 4.4 x 3.54" (138 x 112 x 90mm)
Weight:	4.6lbs (2.1kg)

Instrument Description



1. Brushed Aluminum Panel
2. 3 Preset Channels
3. Iron Receptacle (24V Contact-safe)
4. Power Switch (ON/OFF)
5. Temperature Control Knob & Menu Button (Turn & Press)
6. LCD Display Temperature Control
7. Intelligent Temperature Control
8. Soldering Iron Tip (Interchangeable)
9. Bakelite (Heat-Resistant)
10. Anti-Slip Grip (Heat-Resistant Silicone)
11. Silicone Cord (Heat-Resistant and Flexible)

Operating Instructions

Note: When using the soldering station for the first time, it is recommended to set the temperature to 482°F (250°C). When the iron tip reaches the point where it can melt the solder, apply a fresh layer of solder containing flux on it and then increase the temperature to the desired setting.

1. Connect the soldering tip cord to the station.

Note: Be sure to turn off the power before connecting or disconnecting the soldering tip cord to the station to avoid damaging the circuit board.

2. Place the soldering tip into the safety rest.
3. Plug the power cord into an appropriate power source.

Note: Do not operate this unit without a properly grounded, properly polarized power cord.

4. Turn the power switch to the ON position and the soldering tip will begin to heat up.
5. Use the temperature control knob to set the desired temperature. At this time, the soldering station's LED heater lamp indicator lights up. (Figure 1)



Figure 1

Note: While the soldering station is heating up to the desired temperature, the LED indicator will continuously blink. When the temperature stabilizes, the LED indicator will remain solid. While cooling down, the LED indicator will remain off.

6. When soldering is complete, set the temperature to 572°F (300°C) and then clean the soldering tip with a wet sponge or cleaning wire if any material has not been successfully removed. Recoat the tip with a fresh layer of solder.
7. Place the soldering iron handle back into the safety rest and turn off the soldering station.

Note: If the soldering station is not in use for a long period, turn OFF the power and remove the power plug.

Setting Pre-Set Memory Channels

1. Press the **CH1** button and channel ① will appear on the LCD display.
2. Use the temperature adjustment knob to set to the desired temperature.
3. The selected temperature will automatically save after approx. 6 seconds.
4. Next, press **CH2** or **CH3** button.
5. Repeat steps 2 & 3 to save additional desired temperature settings.

Selecting Temperature Unit of Measure

1. Press the temperature control knob once and the °C or °F icons will blink.
2. Rotate the knob to toggle between Fahrenheit and Celsius (turn the knob counter clockwise to switch to °C and clockwise for °F).
3. Once the desired unit of measure has been selected, the icon will blink 7 times and automatically save the selection and returns to normal operation.
4. The temperature control knob can also be pressed to save the selection and skip to next setting.

Enabling/Disabling the Soldering Iron Sleep Function

1. Press the temperature control knob twice to access the soldering iron sleep function.
2. "LXX" will now blink on the LCD display.
3. Rotate the temperature knob to set the soldering iron sleep timer from 0 to 99 mins. (Selecting "0" will disable the sleep function).
4. Upon selection, the digits will blink 7 times and automatically save the selection and returns to normal operation.
5. The temperature control knob can also be pressed to save the selection and skip to next setting.
6. After entering sleep mode, the soldering iron temperature automatically lowers to 392°F (200°C) and it goes to sleep as confirmed by blinking "SLP" on the screen.
7. To wake up the soldering iron, press either the **CH1/CH2/CH3** buttons or turn the power OFF and then back ON.

Enabling/Disabling the Auto Power OFF Function

Note: The auto power off function can only be activated if the soldering iron sleep function is enabled.

1. Press the temperature control knob three times to access the auto power OFF function.
2. "PXX" will blink on the LCD display.
3. Rotate the temperature control knob to set the auto power OFF timer from 0 to 99 mins. (Selecting "0" will disable the auto power OFF function)
4. Upon selection, the digits will blink 7 times and automatically save the selection and returns to normal operation.

continued...

5. The temperature control knob can also be pressed to save the selection and skip to next setting.
6. If the soldering enters sleep mode, the auto power OFF function is now enabled as confirmed by blinking "- - -" on the screen and then the set timer begins.
7. To wake up the soldering station, turn the power OFF and then back ON.

Setting Temperature Compensation

Note: This function helps correct temperature deviations caused by environmental changes or the replacement of the heating element, soldering tip, or other parts.

1. Press the temperature control knob four times to access the temperature compensation function.
2. Rotate the temperature control knob to set the temperature calibration range between -58 to 122°F (-50 to 50°C).
3. Upon selection, the digits will blink 7 times and automatically save the selection and returns to normal operation.
4. The temperature control knob can also be pressed to save the selection and skip to next setting.

Applications

- Easy professional soldering jobs
- Indoor lighting
- Electrical
- Education
- Crafts
- Small appliance
- Repair
- Electronic kits
- PCBs
- Low-voltage wiring
- Cable assembly
- Hobby models
- Radio-controlled
- Audio systems

Care and Maintenance

Performing periodic maintenance will extend the soldering iron life. Efficient soldering depends upon the temperature, quality and quantity of the solder and flux used.

Apply the following tip maintenance to extend the soldering tip service life:

1. Set the temperature to 572°F (300°C).
2. When the soldering station reaches the set temperature as indicated by the LED indicator remaining solid, clean the soldering tip with a wet cleaning sponge or use the cleaning wire if any material is not successfully removed using the cleaning sponge.
3. Repeat until all the oxide is removed and then recoat the tip with a fresh layer of solder.
4. If the tip is deformed or heavily eroded, replace it with a new one.

Note: Do not file the tip in an attempt to remove the black oxide.

Troubleshooting Guide

There are two reasons "S-E" could appear on the LCD display to indicate an issue must be addressed:

1. The sensor of the soldering station is failing.

Recommended Solution: Replace the heating element. Unit will need to be returned for service.

2. The soldering iron wire is not properly connected to the soldering station.

Recommended Solution: Inspect the handle to make sure it is correctly connected or connect the soldering iron handle to the station. Make sure to unit is powered OFF before removing or connecting the handle.