

X-TRONIC XTR-3090-PRO-X-ST-ACC

X-Tronic 3090-PRO-X Soldering Iron Station User Manual

Model: XTR-3090-PRO-X-ST-ACC | Brand: X-TRONIC

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of your X-Tronic 3090-PRO-X Soldering Iron Station. Designed for both advanced users and beginners, this station offers precise temperature control and a range of features to facilitate various soldering tasks. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage or injury.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines when operating the soldering station:

- **Electrical Safety:** Ensure the power supply matches the unit's requirements (110V/60Hz). Do not operate with wet hands or in damp environments. Always use a grounded outlet.
- **Heat Hazard:** The soldering iron tip reaches very high temperatures. Avoid direct contact with skin or flammable materials. Allow the iron to cool completely before storing.
- **Fume Ventilation:** Soldering produces fumes. Work in a well-ventilated area or use a fume extractor to avoid inhaling harmful vapors.
- **ESD Safety:** The unit is ESD safe and anti-static designed. Use the anti-static grounding wire for PCB boards to protect sensitive electronic components.
- **Proper Handling:** Always place the soldering iron in its holder when not in use. Do not drop or subject the unit to excessive force.
- **Chemical Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. Exercise caution and follow proper handling procedures for solder and flux.
- **Children and Pets:** Keep the soldering station and all accessories out of reach of children and pets.

3. PACKAGE CONTENTS

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

- 1 x Main Power Unit
- 1 x Soldering Iron (60 Watts)
- 1 x Top Mount Soldering Iron Holder
- 1 x Attached Solder Roll Holder
- 5 x Extra Soldering Tips
- 1 x Solder Sucker
- 1 x Cord Holder
- 1 x Heat Resistant 100% Silicone Tool Mat
- 1 x Pinpoint Tweezers
- 1 x Roll of 60/40 Solder
- 1 x Anti-Static Grounding Wire for PCB Board
- 1 x Brass Tip Cleaner
- 1 x Wet Sponge
- 1 x Mini Magnifying Lamp
- 4 x Helping Hands (Detachable)



Figure 1: Complete X-Tronic 3090-PRO-X Soldering Station Kit with all accessories.

4. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Placement:** Place the main power unit on a stable, heat-resistant, and non-flammable surface. Ensure adequate ventilation around the unit.
3. **Soldering Iron Holder:** Attach the top mount soldering iron holder to the main unit. Ensure it is securely fastened.
4. **Solder Roll Holder:** Attach the solder roll holder to the designated slot on the unit. Place your roll of 60/40 solder onto the holder.
5. **Helping Hands:** Insert the four helping hands into the side ports of the main unit as needed for your work. These

are detachable and can be positioned for optimal support.

6. **Mini Magnifying Lamp:** Connect the mini magnifying lamp to its designated port. Adjust the flexible arm to position the lamp over your work area.
7. **Tip Cleaner:** Place the brass tip cleaner into its designated recess on the unit. Dampen the wet sponge with distilled water and place it next to the brass cleaner.
8. **Power Connection:** Connect the soldering iron's silicone cord to the main unit. Plug the main power cord (USA Type B – 3 Pin Grounded Plug) into a grounded 110V/60Hz electrical outlet.
9. **Anti-Static Grounding:** If working with sensitive electronic components, connect the anti-static grounding wire to your PCB board and the unit's grounding port.



Figure 2: Soldering station with main components assembled.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Initial Setup

1. Locate the power switch on the rear of the main unit and switch it to the 'ON' position.
2. The dual LED displays will illuminate, showing the 'Set Temp' and 'Actual Temp'.



Figure 3: Front control panel with LED temperature displays and preset buttons.

5.2 Temperature Adjustment

- Use the **Temperature Up (▲)** and **Temperature Down (▼)** buttons on the front panel to adjust the desired 'Set Temp'.
- The 'Actual Temp' display will show the current temperature of the soldering iron tip, which will gradually rise or fall to match the 'Set Temp'.
- The unit features PID (Proportional-Integral-Derivative) Technology for stable temperature control.

5.3 Temperature Presets

The unit has 3 programmable preset memory functions (CH1, CH2, CH3) for quick temperature recall.

- **To Save a Preset:** Set your desired temperature using the Up/Down buttons. Press and hold the desired preset button (CH1, CH2, or CH3) until the display flashes, indicating the temperature has been saved.
- **To Recall a Preset:** Briefly press the desired preset button (CH1, CH2, or CH3). The 'Set Temp' will immediately change to the saved temperature.

5.4 Celsius/Fahrenheit Conversion

The unit can display temperature in Celsius (°C) or Fahrenheit (°F).

- To switch between units, refer to the specific instructions in your quick start guide or consult the manufacturer's website. This function is typically activated by a combination of button presses.

5.5 Adjustable Sleep Timer

The soldering station features an adjustable sleep timer (0 to 30 minutes) to conserve energy and prolong tip life.

- When the iron is placed in its holder and no activity is detected for the set duration, the unit will enter sleep mode, reducing the tip temperature.
- To adjust the sleep timer, refer to the specific instructions in your quick start guide or consult the manufacturer's website.

5.6 Mute/Unmute Sound (Beep)

The unit has an audible beep function that can be muted or unmuted.

- To toggle the sound, refer to the specific instructions in your quick start guide or consult the manufacturer's website.

6. MAINTENANCE

6.1 Soldering Tip Care

- **Cleaning:** Regularly clean the soldering tip using the brass tip cleaner or the damp wet sponge. This removes oxidation and old solder, ensuring efficient heat transfer.
- **Tinning:** Always tin the tip with a small amount of fresh solder before and after each use, and before placing it in the holder for extended periods. This prevents oxidation and extends tip life.
- **Replacement:** Replace tips when they become excessively pitted, corroded, or no longer hold solder effectively. The kit includes 5 extra tips.



Figure 4: Proper cleaning of the soldering iron tip using the brass cleaner and wet sponge.

6.2 Unit Cleaning

- Ensure the unit is powered off and unplugged before cleaning.
- Wipe the main unit and accessories with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the silicone tool mat clean to prevent solder residue buildup.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering iron not heating up.	Power switch off, loose connection, faulty heating element.	Ensure power switch is ON. Check all cable connections. If problem persists, contact customer support.

Problem	Possible Cause	Solution
Temperature display is erratic.	Loose tip, sensor issue.	Ensure the soldering tip is fully inserted and secure. If issue continues, contact support.
Solder not melting easily.	Incorrect temperature setting, oxidized tip, wrong solder type.	Increase temperature. Clean and tin the soldering tip. Ensure you are using appropriate solder for the task.
Magnifying lamp not lighting up.	Loose connection, power switch off on lamp.	Check the lamp's connection to the unit. Ensure the small slide switch on the lamp itself is ON.

For issues not listed here, please contact X-TRONIC customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	XTR-3090-PRO-X-ST-ACC
Maximum Power	75 Watts (60W for Iron, 15W for Mini Mother Board)
Temperature Range	200°C ~ 480°C (392°F ~ 896°F)
Temperature Stability	±1°C (Static) / ±2.0°F (Static)
Working Environment	0°C to 40°C (32°F to 104°F)
Storage Environment	-20°C to 80°C (-4°F to 176°F)
Power Cord Length	42.00 inches
Soldering Iron Cord Length	54 inches (100% Silicone)
Power Input	110/120 Volt, 60 Hz (USA Type B – 3 Pin Grounded Plug)
Display Type	White LED
ESD Safe	Yes
Item Weight	3.05 pounds
Product Dimensions	6 x 6 x 4 inches
Country of Origin	China

9. WARRANTY AND SUPPORT

9.1 Warranty Information

All X-Tronic products come with a 30-Day Unconditional Money Back Guarantee. Additionally, a 3-Year Warranty is provided, which includes the cost of parts and labor. Terms may apply. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

X-Tronic is a US Brand with all teams centrally located in Lincoln, Nebraska. They strive to make customer service a priority by offering lifetime support from experienced technicians.

For technical assistance, warranty claims, or any other inquiries, please visit the official X-TRONIC website or contact their customer service department directly. Refer to the product packaging or the X-TRONIC website for the most current contact information.

You can also visit the [X-TRONIC Store on Amazon](#) for more information and product details.



© 2025 X-TRONIC. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.