K-TRONIC USA

Soldering Technology Professionals Can Trust



4020-PRO-X Instructions

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SPECIFICATIONS

Model	XTR-4020-PRO-X	
Power Consumption	1000 Watts	
Voltage	AC 110V 60Hz	
Power Cord Type	USA Type B - 3-Pin Grounded Plug	
Current	≤ 8 Amps	
Fuse	20 Amp	
Dimensions	9.0 L x 9.5" W x 5.5" H	
Weight	7.5 lbs	
Working Environment	32°F ~ 104°F / 0°C ~ 40°C	
Storage Environment	-4°F ~ 176°F / -20°C ~ 80°C	
Storage Humidity	35% - 45%	
Airflow Type	Brushless DC Vortex Blower	
Airflow Velocity	3.4 M/S	
Air Volume	55 L/Min	
Programmable Air Flow	1-120	
Temperature Range	212°F ~ 932°F / 100°C ~ 500°C	
Temperature Stability	± 1°C	
Cable Length (Material)	≥ 33.2 in (Silicone)	
Noise	≤ 70dB	

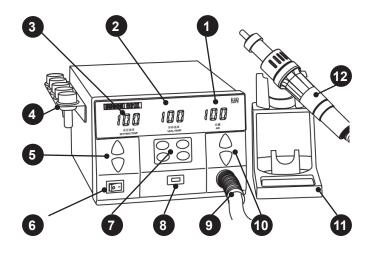
PACKAGE CONTENTS

- 1000 Watt Main Power Unit
- Deluxe Upright Tower Hot Air Gun Holder
- 1000 Watt Hot Air Gun
- Blue Sponge
- Patented Quick Change Nozzle Holder (attached to main unit)
- 5 Sizes/Styles of Hot Air Gun Nozzles
 - 3 Straight Air 5mm, 7mm, & 10mm
 - 2 Spiral Air 8mm & 10mm

SAFETY PRECAUTIONS

- 1. Always use a grounded outlet for the unit.
- 2. Always turn the power off and unplug the unit when not in use.
- 3. Never use the hot air gun near any flammable substance, material, or gas.
- Never touch the metallic components of the hot air gun while the unit is on. They are extremely hot and will cause serious burns instantly.
- Always turn the power off, unplug the unit, and let it fully cool down before attempting to replace any parts (nozzle, heating element, etc.)
- 6. Use only genuine replacement parts for this unit.
- 7. Do not use the unit for any application other than hot air rework.
- 8. Do not modify the unit in any way.
- 9. When replacing consumable parts, only use approved manufacturer parts.
- 10. Do not get the unit wet or use when your hands are wet.
- 11. The rework process may produce smoke ensure the area is well ventilated.

PANEL DIAGRAM



- 1. Set / Actual Air Flow Display
- 2. Actual Temperature Display
- 3. Set Temperature Display
- 4. Patented Quick Change Nozzle Rack & Nozzles
- 5. Temperature Adjustment Buttons
- 6. Power Switch
- 7. 4 Memory Preset Buttons
- 8. Function Set Button
- 9. Hot Air Gun Cord Receptical (Hard-wired)
- 10. Air Flow Adjustment Buttons
- 11. Upright Tower Hot Air Gun Holder
- 12. Hot Air Gun

INITIAL SET-UP

 Place the hot air gun in the vertical position in the upright tower holder. Ensure the hot air gun is fully seated so the edge is resting against the base of the holder. See photo below.



Hot Air Gun Correctly Seated in Upright Tower Holder

- 2. Plug the 3-Prong AC cord into a 110/120V grounded outlet to prevent electric shock or injury.
- 3. Turn ON the power switch located on the lower left front of the unit.
- 4. The left side of the display will indicate °F or °C in red, showing the unit of measurement for the temperature. All three of the LED displays will show "---", indicating that the unit is in Standby Mode.
- 5. Push the Hot Air Temperature Adjustment Buttons (▲ or ▼) on the left side of the unit to set the hot air gun temperature. The temperature range is 212°F ~ 932°F / 100°C ~ 500°C.
- 6. Push the Air Flow Adjustment Buttons (▲ or ▼) on the right side of the unit to set the hot air gun temperature. The air flow range is 1-120.



CAUTION 4



When using a temperature higher than 300°C/572°F the air flow should be set at 45 or higher. This will prevent damage to the hot air gun and increase the life of the heating element.

7. When the hot air gun is removed from the holder it will start blowing air and ramp up to the programmed temperature and air flow quickly.

8. When the hot air gun is not in use always place it back in the vertical position in the upright tower holder. The hot air gun will go into Auto Cool Down mode and continue blowing air until the temperature gets back down to 100°C. Then the airflow will stop, the displays will all show "---", and the unit will be in Standby mode.

Note: When the hot air gun is initially returned to the vertical position in the upright tower holder, the air flow may increase noticeably while the hot air gun automatically goes into Auto Cool Down/ Standby mode. This allows the hot air gun to cool down quickly and efficiently. This is a safety feature built into the unit.

- 9. When the hot air gun is removed again from the holder it will start blowing air and ramp up to the programmed temperature and air speed quickly.
- 10. When the work is completed, return the hot air gun to the vertical position in the upright tower holder and let the unit fully cool down with the Auto Cool Down/Standby function. Once the unit has gone into Standby mode, the unit can be shut off.

Note: Do not shut off or unplug the unit the hot air gun has FULLY cooled down and is in Standby Mode.

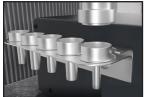
FEATURES

QUICK CHANGE NOZZLE RACK

With the patented Quick Change Nozzle Rack that is included, changing out hot air nozzles is guick and efficient.

To Install a Nozzle

- 1. Center the hot air gun over the chosen nozzle in the Quick Change Nozzle Rack. See Figure 1 below.
- 2. Firmly press the hot air gun down on the nozzle until it snaps into position. There will be approximately a 3mm gap when it is secured on the tip of the hot air gun. See Figure 2 below.
- 3. The nozzle is then secured on the hot air gun and ready to use. See Figure 3 below.



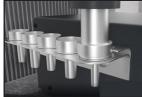




Figure 1

Figure 2

Figure 3

To Remove a Nozzle

- 1. Choose an open nozzle space on the Quick Change Nozzle Rack. See Figure 4 below.
- 2. Placing the nozzle tip into the opening, tilt the nozzle so that the 3mm of space between the gun and the nozzle are against the fingers of the rack, then use the rack to pull the nozzle free from the hot air gun. See Figure 5 below.

WARNING: Do NOT touch the hot nozzle!

3. Pull the hot air gun away from the nozzle while the Quick Change Rack holds the nozzle in place. See Figure 6 below.







Figure 4

Figure 5

Figure 6

HOT AIR GUN AUTO COOL DOWN / STANDBY FUNCTION

When the hot air gun is placed in the vertical position in the upright tower holder, it will automatically go into Auto Cool Down / Standby mode. When the hot air gun is initially returned to the holder, the air flow may increase noticeably while the hot air gun is cooling down and going into standby mode. This is a safety feature built into the unit.

TEMPERATURE CONVERSION

While the unit is on, quickly press the Set button in the middle of the unit. The display will toggle between °C and °F (displayed on the left side of the screen).

MUTE / UNMUTE FUNCTION

The unit beeps when the buttons on the unit are engaged.

Press and hold the Set button. The screen will show "SPH ON" and will audibly beep when the unit is Unmuted.

To Mute the unit, press and hold the Set button. The screen will show "SPH OF" and there will be no audible noise when buttons are pressed.

SETTING MEMORY PRESETS

- 1. When the temperature and air flow are set, press and hold any one of the four memory preset buttons for approximately 5 seconds.
- The left display on the screen will display CH"X" (X indicating the chosen channel number), indicating that the chosen setting are now programmed into that memory preset.
- 3. To quickly select any of the presets, briefly touch the preset while the hot air gun is in use and it will change to the saved settings.
- 4. To re-program one of the presets, set the temperature and air flow parameters to the new settings and then press and hold the preset to be re-programmed for approximately 5 seconds.

CALIBRATION FUNCTION

When is it time to Calibrate your Hot Air Station?

All X-Tronic Stations come with a high quality heating element in the hot air gun that is calibrated to within ±1.8°F/1.0°C of the temperature that is shown on the LED Display. While calibrating to the exact temperature is the ultimate goal, this heating element and nozzle design is as close as can be achieved with this technology.

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The age of the heating element, the hours of use, and the temperature at which the hot air gun is regularly used will affect the life of the heating element and can cause fatigue. When a heating element begins to fatigue, the heat that is transferred to the blowing air from the heating element will begin to drop. If the typical temperature used to desolder is not working as well as when it was new, then it might be time to calibrate the unit.

Note: The heating elements are a consumable part for hot air guns.

There will come a time when the heating element stops working due to age and/or too much deterioration. At this point, it will need to be replaced and cannot be calibrated. Heating elements for this unit can be found on our website (XTronicUSA.com).

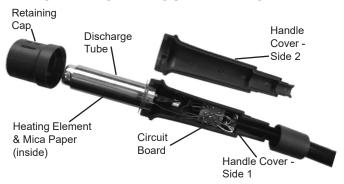
CALIBRATION INSTRUCTIONS

Before measuring the temperature or calibrating the unit, ensure all nozzles have been removed from the hot air gun. Once the desired temperature has been set and the temperature of the unit stabilizes, measure the heat of the hot air using **a high quality and well calibrated hot air tester or an infrared thermometer.** If using the infrared thermometer, aim it approximately three inches away from the end of the hot air gun. If the temperature shown on the unit's display does not reflect the temperature shown on the tester, the unit can be calibrated.

- Ensure the unit is off. Press and hold the Set button while switching the unit on. This will put the unit into Calibration mode. The left side of the screen will say "SEP" and the right side will say "00" initially.
- 2. Then the left side will indicate the current programed temperature and the right side will flash "00", indicating the offset degrees. The first time this is done it will display 00.
- Press the Air Flow ▲ or ▼ buttons to change the temperature offset. This can be changed ± 99°.
- 4. When the proper temperature offset has been achieved, press the Set button to save the setting.
- When going back in to the calibration mode, the memory will show how many degrees the unit has been offset with the past setting. Setting it to 00 will reset it to the factory setting.

MAINTENANCE

REPLACING THE HOT AIR GUN HEATING ELEMENT



- 1. Turn off the unit and unplug it from the outlet. Allow the hot air gun to cool down to room temperature.
 - Never attempt to handle the gun while the it is hot.
- 2. Slide the ergonomic grip up and unscrew the retaining cap, pull the ergonomic grip down off the handle.
- 3. Unscrew both of the screws at the base of the handle and separate the two handle sides.
- 4. Pull the heating element out of the Mica Paper and Discharge Tube, being careful not to disconnect grounding wire.
- 5. Unscrew the two screws holding the circuit board in place.
- Desolder the four wires to the heating element Please take note of the location of the 4 wires thickness/color for installation of new heating element.
- 7. Solder the new heating element into place.
- 8. Reassemble the hot air gun.

Note: If the unit have been calibrated because of a fatigued element, be sure to reset the calibration to compensate for the new heating element.

TROUBLESHOOTING

ISSUE	POSSIBLE SOLUTIONS
Unit does not have power	Ensure that the outlet is functional. Contact X-Tronic International for technical assistance - Contact information on back of manual
Soldering Iron "Rattles"	This is expected behavior. The "rattle" is a small ball that allows the unit to determine when the soldering iron is not in use and it should go into Sleep Mode
S-E Error	The heating element may need to be replaced Contact X-Tronic International for technical assistance - Contact information on back of manual
HEA Error: Issue with the heater	The heating element may need to be replaced Contact X-Tronic International for technical assistance - Contact information on back of manual
TMP Error: Issue with the sensor	Contact X-Tronic International for technical assistance - Contact information on back of manual
FAN Error: Issue with the fan	Contact X-Tronic International for technical assistance - Contact information on back of manual

X-Tronic International Inc.

3-YEAR LIMITED WARRANTY

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS, AS THEY VARY FROM STATE TO STATE.

THIS LIMITED WARRANTY CAN ALSO BE FOUND ON OUR WEBSITE AT WWW.XTRONICUSA.COM/SUPPORT/WARRANTY.

WE WARRANT THAT DURING THE WARRANTY PERIOD, THE PRODUCT WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.

WE LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

SOME STATES HAVE DIFFERENT LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

OUR RESPONSIBILITY FOR DEFECTIVE GOODS IS LIMITED TO REPAIR, REPLACEMENT OR REFUND AS DESCRIBED BELOW IN THIS WARRANTY STATEMENT.

WHO MAY USE THIS WARRANTY?

X-Tronic International Inc. located at 2159 Magnum Circle, Lincoln, Nebraska 68522 ("we") extend this limited warranty only to the consumer who originally purchased the product in the United States, the District of Columbia or Canada ("you"). It does not extend to (a) any subsequent owner or other transferee of the product, (b) any product shipped outside of the United States, the District of Columbia or Canada, or (c) anyone who may have purchased it from someone other than X-Tronic International Inc.. Proof of purchase is required for inwarranty service. We recommend you promptly register this product on our website (www.XTronicUSA.com) to facilitate verification of the date of the original purchase. Keep the product manual and your sales receipt together for future reference.

WHAT DOES THIS WARRANTY COVER?

This limited warranty covers defects in materials and workmanship of the product for the Warranty Period as defined below. In addition, during the Initial Warranty Period, this limited warranty also covers defects occurring in the initial shipment of the product to you.

WHAT DOES THIS WARRANTY NOT COVER?

This limited warranty during the Warranty Period does not cover any damage due to: (a) improper use; (b) failure to follow the product instructions or to perform any preventive maintenance; (c) modifications; (d) unauthorized repair; (e) normal wear and tear that comes with household use; or (f) external causes such as accidents, abuse, or other actions or events beyond our reasonable control. It also does not cover consumable parts.

WHAT IS THE PERIOD OF COVERAGE?

This limited warranty starts on the date of your purchase and lasts for 3 years ("The Warranty Period"), which shall be divided into two periods: (1) the first 30 days from the date of your purchase ("Initial Warranty Period"); and (2) the remainder of the 3 year period after the Initial Warranty Period has expired (the "Remainder Warranty Period"). The Warranty Period is not extended if we repair or replace the product. We may change the availability of this limited warranty at our discretion, but any changes will not be retroactive.

WHAT ARE YOUR REMEDIES UNDER THIS WARRANTY?

With respect to any defective product during the Initial Warranty Period, we will, in our sole discretion either (a) replace such product (or the defective part) free of charge, or (b) refund the purchase price of such product.

With respect to any defective product during the Remaining Warranty Period, we will repair such product free of charge and provide a full-service inspection of your product. You will be responsible for all shipping and handling fees to and from our facility.

HOW DO YOU OBTAIN WARRANTY SERVICE?

To obtain warranty service, you must call 844-861-4762 or email us at Info@ XTronicUSA.com during the Warranty Period to open a service request. Proof of purchase will be required to open a service request.

LIMITATION OF LIABILITY

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT.

SOME STATES HAVE DIFFERENT LIMITATIONS OF LIABILITY AND EXCLUSIONS, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

QUESTIONS, PROBLEMS OR COMPLIMENTS?

Thank You for purchasing this X-Tronic International Product! We are grateful for your business!

All of our X-Tronic International Products are inspected then sealed with our NEW Product Seal prior to shipment. Our goal is to ensure Quality, Completeness, and Satisfaction for your order.

For Any Questions, Problems, or Compliments please call or email us.



Our Business Hours are: Monday - Thursday: 8am - 4pm CST Friday: 8am - Noon CST

If you would like to shop for other X-Tronic International Products
Please visit our website
www.XTronicUSA.com

