

X-TRONIC USA

Soldering Technology
Professionals Can Trust



3020-XTS Instructions

PLEASE READ THIS MANUAL BEFORE USING YOUR NEW X-TRONIC Model #3020-XTS SOLDERING STATION

This manual is provided to make a safe and effective use of the X-Tronic 3020-XTS soldering station and to maintain this instrument in proper working condition. Be sure to keep this manual in a handy place near the unit for future reference.

PRODUCT SPECIFICATIONS

Model	XTR-3020-XTS
Dimensions (assembled)	7.5" L x 5.5" W x 10" H
Weight	1.5 lbs
Working Environment	32°F ~ 104°F / 0°C ~ 40°C
Storing Environment	-4°F ~ 176°F / -20°C ~ 80°C
Storage Humidity	35% - 45%
Temperature Range	392°F ~ 896°F / 200°C ~ 480°C
Temperature Stability	± 3.6°F / 2.0°C (Static)
Grounded Tip Voltage	< 1 mV
Tip Impedance	< 1Ω
Cord Length	≥ 40 in

PACKAGE CONTENTS

- Main Power Unit with LED Display
- 75 Watt Soldering Iron with Ergonomic Grip
- Attachable Helping Hands (set of two)
- Small Wrench (to Tighten Helping Hands)
- Spring Steel Soldering Iron Holder
- Solder Roll Holder (attaches to side of main unit)
- Brass Sponge Soldering Tip Cleaner with Cleaning Flux
- Wet Sponge Soldering Tip Cleaner

SAFETY PRECAUTIONS

1. When not in use always turn the power off and unplug the unit from the electrical outlet.
2. Never use the soldering iron near any flammable substance, material, or gas.
3. Never touch the metallic components of the soldering iron while they are in use. The items are extremely hot and will cause serious burns instantly. Allow the unit to properly cool to room temperature before attempting to touch them.
4. Do not use the unit for any application other than soldering.
5. Do not tap the soldering tip against the work surface to remove residual solder - this can damage the soldering tip and/or heating element.
6. Do NOT modify the unit in any way.
7. When replacing consumable parts, only use approved manufacturer parts.
8. Do not get the unit wet or use when your hands are wet.
9. The soldering process can produce smoke - ensure the area is well ventilated.

UNIT PARTS



1. Power Switch
2. Solder Roll Holder
3. Digital LED Temperature Readout
4. Temperature Adjustment Knob
5. Temperature Readout Toggle
6. Wet Sponge Tip Cleaner
7. Brass Sponge with Rosin Flux Tip Cleaner
8. Soldering Iron Holder
9. Helping Hands

SET-UP

1. Open the package and check that all parts are present and are not damaged. If anything is missing or damaged, please contact X-Tronic immediately for assistance (see back cover for contact information).
2. Attach the solder roll holder to the left side of the unit with the screws provided.
3. Firmly press the steel spring solder iron holder into place on the right side of the base, ensure it fully seated before placing the soldering iron in it.
4. Plug the 3-Prong AC cord into a grounded outlet to prevent electric shock or injury.
5. Turn the power on using the power switch on the top of the control module.
6. Once the power is on the Blue LED Screen located on the front of the control module will light up.
7. Set the desired working temperature by turning the aluminum knob on the front of the control module. The temperature of the soldering iron can be set anywhere from 392°F ~ 896°F/200°C ~ 480°C.
8. Moving the temperature control potentiometer clockwise will raise the temperature on the soldering iron, and rotating the temperature control potentiometer counterclockwise will lower the soldering iron tip temperature.
9. Moisten the sponge and place it in the sponge holding space in the iron cradle.
- 10. IMPORTANT:** Remove the iron from the cradle and flood the tip with a good quality rosin core solder-preferably 63/37 or 60/40 grade solder (See page 4).
11. Wipe the tip across the moist sponge or dip the tip into the brass sponge to remove excess solder. The tip should then be bright and shiny if it is tinned properly.
12. The soldering iron is now ready to solder. Proceed according to your standard working practice.

WARNING: Do NOT leave the unit on full power for any long period of time. This will greatly reduce the life of the soldering iron, soldering tip, and heating element.

FUNCTION OPERATION

TEMPERATURE CONVERSION

This unit can readout temperatures in either Fahrenheit or Celsius. To change from one to the other, simply toggle the switch on the front of the unit to either °F or °C.

SLEEP FUNCTION

When the soldering iron is placed in the holder, the iron will go into sleep mode after 10 minutes. The display will show “SLP” to signify this and the temperature of the soldering iron will ramp down to 392°F / 200°C. When the soldering iron is removed from the holder to use again, the temperature of the soldering iron will ramp back up to the temperature it was previously being used at within 5-10 seconds.

TROUBLESHOOTING

ISSUE	POSSIBLE SOLUTIONS
Unit does not have power	<ul style="list-style-type: none">• Ensure the power cord is not damaged and in good working condition.• Ensure that the outlet is functional.
Soldering Iron “Rattles”	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• The unit is no longer sensing the element - the heating element may be cracked or worn out and needs to be replaced. Replacements can be purchased on our website: www.XTronicUSA.com.
Tip is not heating up as expected	<ul style="list-style-type: none">• Ensure the soldering iron is not damaged and in good working condition.• The soldering tip could be oxidized, it is important to always tin the tip and keep it clean. See Soldering Tip Preparation on page 5.• The heating element may need to be replaced. Replacements can be purchased on our website: www.XTronicUSA.com.

Note: Running the soldering iron in the 600°F ~ 650°F / 315°C ~ 343°C range, which is the normal temperature range for most soldering applications, the heating element should last for 6 to 12 months depending on hours of use.

SOLDERING TIP PREPARATION

- Keep the soldering tip properly tinned. Always use solder with sufficient rosin flux or the tip will de-wet. A well tinned tip will be bright all over when hot, with no dull or discolored spots.
- To tin the soldering iron tip:
 1. Plug in the iron and allow it to reach solder melt temperature.
 2. Flood the tip with solder and let it stand for one minute.
 3. Apply more solder to the tip, allow it to idle for one or two more minutes, wipe it lightly on the sponge. Do not remove all of the solder, but use the sponge to remove excess solder and wipe solder onto non-tinned areas.
- Do not file or attempt to reshape the tip. This will destroy the plating and shorten tip life. Do not use chloride and acid fluxes; they will also shorten tip and heater life.
- For maximum tip life, always apply solder to the heated connections or joints. Repeated application of solder directly to the tip will shorten the tip life.

WARNING: Do NOT use anti-seize or any other lubricant on the tip retainer or heater of the soldering iron.

MAINTENANCE

UNIT

1. Keep the unit plugged into a GROUNDED outlet at all times during operation.
2. Keep the unit and all components free from dirt, debris, and liquid at all times.
3. Make sure the power cord is plugged in correctly and safely off the floor to prevent accidents.
4. Keep all cords in the immediate workspace and avoid letting them hang off the side of a table or bench top.
5. Wipe the unit down, when needed, with a dry, static-free cloth.



WARNING



DISCONNECT POWER CORD BEFORE REPLACING A SOLDERING TIP AND/OR A HEATING ELEMENT

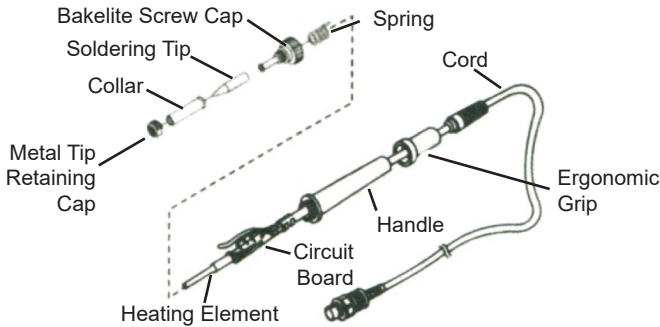
REPLACING THE SOLDERING TIP

1. Turn off the soldering station, unplug the power cord from the power source and allow the soldering iron to cool down to room temperature. Never attempt to remove the tip while the iron is hot.
2. Unscrew the small metal tip retaining screw cap at the bottom of the soldering irons metal shaft. Slide off or remove the soldering tip retaining collar. Now, remove the tip by sliding it forward.
(There is NO need to remove the black Bakelite screw cap to change the tip.)
3. Slide a new tip over the exposed ceramic heating element, slide the metal retaining collar over the new soldering tip back onto the soldering iron.
4. Tighten the metal tip retaining screw cap to secure the tip into place. Do not over tighten the metal tip retaining screw cap.
5. Plug the soldering iron AC cord into a grounded outlet to resume soldering.

BLACK BAKELITE SCREW CAP TIPS

- Bakelite is a strong and stable material when handled correctly. This part cannot be made of metal for heat transfer safety reasons.
- The black Bakelite screw cap does NOT need to be removed to replace the tip. This is only removed to access the heating element.
- The Bakelite screw cap should never be tightened or re-tightened when the iron is hot. If the iron is not at room temperature when the Bakelite screw cap is removed it can cause it to crack.
- When tightening the Bakelite screw cap, at room temperature, it only needs to be snug - DO NOT OVER-TIGHTEN.

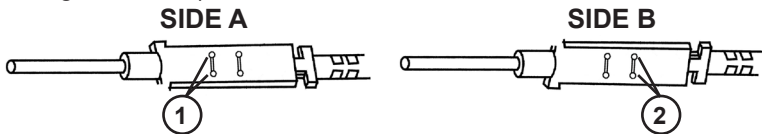
REPLACING THE SOLDERING IRON HEATING ELEMENT



1. Turn off the unit and unplug it from the outlet. Allow the soldering iron to cool down to room temperature.
Never attempt to handle the tip while the iron is hot.
2. Unscrew the Black Bakelite Screw Cap and slide off the full tip assembly.
3. Push the Cord through the bottom of the soldering iron while simultaneously pulling gently on the heating element to expose the circuit board.
4. De-solder the 2 thin / red or white wires from one side of the board and the 2 thick / blue wires from the other side of the board and pull the heating element away from the board.

NOTE: Record which side had the thin wires and which side had the thick wires so the replacement can be attached accordingly.

5. With the new heating element in place, solder the 2 thick / blue wires to the two lower solder joints on the circuit board (see Side A diagram below).
6. Flip the circuit board over and solder the 2 thin / red or white wires to the two upper solder joints on the circuit board (see Side B diagram below).



7. Pull the cord back gently and align the circuit board to the slots on the iron so the cord can be pulled back to its original position.
8. Replace Bakelite Polymer Retaining Cap and screw back on and hand tighten - Do NOT over-tighten.
9. Install the soldering tip, slide the metal soldering tip retaining collar and hand tighten it. Plug the AC cord back into a grounded outlet.

NOTE: The wires on the heating element can be soldered onto either side of the circuit board, as there is no polarity for the element.

**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 in-warranty 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.**



Toll Free: 844-861-4762



Info@XTronicUSA.com

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
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