

X-TRONIC USA



X-Tronic® Model #8080 Instructions

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Thank you for purchasing the XTRONIC #8080-XTS 4-in-1 Reworking/ Soldering Station and DC Power Supply / Volt Meter. This product is designed base upon market research needs of a 4 in 1 tool. These functions, Hot Air Rework, Soldering Iron, DC Power Supply and Voltmeter can be used independently or simultaneously. Please take a moment to read through this manual in its entirety before attempting to use your new soldering station. Please store this manual in a safe, dry place for future consulting.

Package Contents

- 1 – X-Tronic #8080-XTS Rework/Soldering Station & Power Supply
- 1 – X-Tronic 70Watt Soldering Iron
- 1 – Soldering Iron Stand (w/Sponge)
- 1 – X-Tronic 500 Watt Hot Air Gun (w/ Holder)
- 1 – X-Tronic IC Popper
- 1 – X-Tronic Stainless Steel Pin Point Tweezers
- 1 – De-soldering Braid (GOOT Wick)
- 4 – X-Tronic Hot Air Nozzles (Assorted Sizes)
- 10 - X-Tronic Soldering Tips (Assorted sizes and shapes)
- 1 – Set of Banana to Alligator Clip Test Leads

Product Features

- ESD Safe
- Samsung Microcomputer/PID Controlled
- Independent Temperature Adjustment
- Intelligent Detection and cool airflow Features
- Silicone Cords (No Memory)
- High Quality Steel Construction
- High Reliability
- High Temperature Stability ($\pm 1^{\circ}\text{C}$)
- Switch temp display between $^{\circ}\text{C}$ and $^{\circ}\text{F}$
- Ceramic heating element
- Low noise brushless fan
- Adjustable Voltage and Current Output
- Low Ripple/Noise
- Easy to Read LED Display

Product Specifications

Model	#8080-XTS
Input Voltage	110 VAC / 6A @ 50-60Hz
Power Consumption	≤1000 Watts
Dimensions	4.9 x 7.4 x 9.8 in / 124 x 187 x 249 mm
Weight	16.7 lbs / 7.6 kg
Working Environment	32°F ~ 122°F / 0°C ~ 50°C
Storing Environment	-68°F ~ 176°F / -20°C ~ 80°C
Hot Air Rework	
Power Output	700 Watts
Airflow Type	Brushless Fan
Airflow	≤ 120 L/min
Temperature Range	212°F ~ 896°F / 100°C ~ 480°C
Temperature Stability	± 1°C
Ground Voltage	< 2mV
Ground Impedance	< 2Ω
Display Type	LED
Soldering Iron	
Power Output	70 Watts
Temperature Range	392°F ~ 896°F / 200°C ~ 480°C
Temperature Stability	± 1°C
Grounded Tip Voltage	< 2 mV
Tip Impedance	< 2Ω
Display Type	LED
DC Power Supply	
Output Voltage	0 VDC - 30 VDC (Adjustable)
Output Current	0A - 5A (Adjustable)
Load Stability	<0.01% ±2 mV
Temperature Coefficient	<300ppm / °C
Display Type	LED
Voltmeter	
Input Voltage	0 - 50 VDC
Input Current	0 - 5 A
Display Type	LED

Hot Air Rework / Soldering Station

Product Set Up

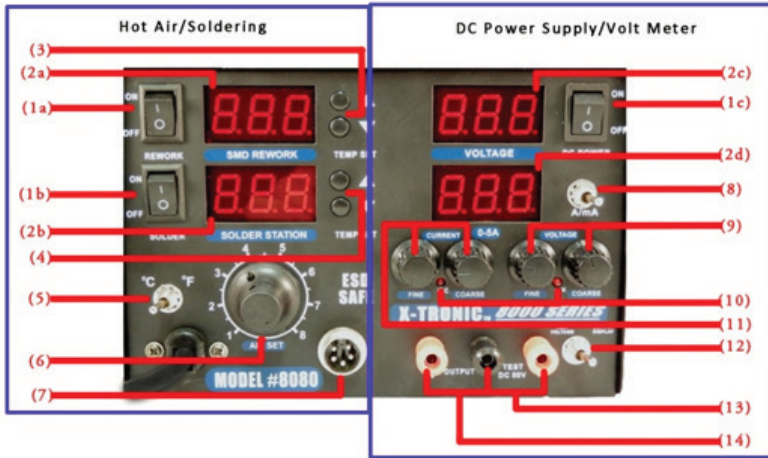
1. Unpack all of the contents of the X-Tronic # 8080-XTS Kit.
2. Plug the soldering iron into the correct connector and secure it using the attached nut.
3. Attach the hot air gun holder to the side of the main unit using the 2 screws included.
4. Place the hot air gun into the holder before applying power to the unit.
5. Ensure all of the connections are secure and the fuse in the rear of the unit is in good working order before applying the power.
6. Plug in the power cord to a GROUNDED AC wall outlet.
7. Select the proper unit of temperature measurement to be displayed (°C – °F) using the selection switch.
8. Power on the unit using the Power Switch on the back of the unit.
 - a. Soldering Iron
 - i. Turn on the soldering iron power.
 - ii. Adjust the temperature to the desired temperature using the Soldering Iron Temp Adjustment buttons.

NOTE: See maintenance section for proper setup, use and cleaning of the soldering iron tip.

- b. Hot Air Gun
 - i. Attach the desired nozzle to the hot air gun.
 - ii. Turn on the hot air power switch located on the front of the machine.
 - iii. Adjust the temperature to the desired temperature using the Hot Air Temp Adjustment Buttons.
 - iv. Adjust the air flow to the desired air flow using the Air Flow Control knob.

NOTE: Please be sure to use an air setting above 4 when using hot air temperatures of over 300°C. Failure to do so could result in overheating of the hot air heating element and cause premature failure.

User Interface



1. Power Switch
 - a) Hot Air b) Soldering Iron c) Power Supply
2. Display
 - a) Hot Air b) Soldering Iron c) Voltage - d) Current
3. Hot Air Temp Adjustment
4. Soldering Iron Temp Adjustment
5. °C - °F Selection Switch
6. Air Flow Control Knob
7. Soldering Iron Input Connection
8. A/mA Selection Switch
9. Voltage Adjustment Knobs
10. Steady State Indicator LEDs
11. Current Adjustment Knobs
12. Output/Test Voltage Selection Switch
13. Test Voltage Input
14. Output Supply Voltage

Operating Guidelines

1. Before turning on the unit, ensure that the hot air gun is in the holster and the soldering iron is connected properly. The hot air gun needs to be in this position **EVERY TIME** the unit is started.
2. Ensure there are no obstructions or blockages in the hot air gun and/or attachments.
3. After using the hot air gun, place it back into the holster, and allow the unit to initiate the cool down procedure until the display reads "---". Then power can be turned off.
4. When using the small nozzle attachment for the hot air gun, set airflow to the maximum value to keep the hot air heating element from overheating and breaking.
5. When using the soldering iron for the first time, be sure to allow the iron to come to the proper temperature then clean and tin the tip to provide longer life expectancy.
6. When "---" is displayed on the LED display, the outlet temperature of the hot air gun is below 100°C, the handle has been properly replaced into the holster, and the unit is in standby mode.
7. Do not use excessive force when installing/removing hot air nozzles or soldering iron tips.
8. Do not over tighten the bolt on the hot air attachments.
9. Store any spare heating elements in a cool, dry, safe place to avoid damage for future use. The ceramic heating elements are extremely fragile.
10. Upon first use, the tube on the soldering iron may discolor a bit due to the combination of the material composition and high heat. This is perfectly normal and expected behavior.
11. Upon first use, white smoke may be visible from the hot air gun and will go away shortly after heating. If the unit keeps smoking, refer to troubleshooting section or contact the manufacturer.

Safety Precautions

1. Never use the soldering iron or the hot air gun near any flammable substance, material, or gas.
2. Never touch the metallic components of the soldering iron or the hot air gun while they are in use. The items may be extremely hot and will cause serious burns instantly. Allow the unit to properly cool to room temperature before attempting to touch them.

3. Never point the hot air gun towards any flammable material or human skin. There is very hot air exiting the outlet that may cause serious burns or damage.
4. Do not use pliers or any other tool to manipulate hot air nozzles.
5. Do not try to reform nozzle attachments into other shapes.

DC Power Supply & Voltmeter

Product Set Up

1. DC Power Supply

- a. Ensure all connections are secure and fuse in the rear of unit is in good working order before applying power
- b. Plug in power cord to a GROUNDED AC wall outlet
- c. Select Output Display using Output/Test Voltage Selection Switch
- d. Select proper A/mA, using A/mA selection Switch, to be used
- e. Attach proper output connectors to output terminals
- f. Ensure all output connections are secure
- g. Ensure all adjustment knobs are turned counter clockwise before powering on unit for first time
- h. Power on unit
- i. Use Adjustment Knobs to set desired Voltage/Current

2. Voltmeter

- a. Ensure all connections are secure and fuse in the rear of unit is in good working order before applying power
- b. Plug in power cord to a GROUNDED AC wall outlet
- c. Select Test Voltage using Output/Test Voltage Selection Switch
- d. Select proper A/mA, using A/mA selection Switch, to be used
- e. Attach proper output connectors to test input terminals
- f. Ensure all input connections are secure
- g. Continue to probe desired points for unknown voltage

Operating Guidelines

1. Before turning on the unit, ensure that all input and output connection are correct and secure
2. Before using DC Power Supply or Volt Meter, ensure all selection switches are in correct positions
3. Use Adjustment knobs to desired output Voltage/Current
4. Ensure a 2in. space is available on all sides of unit to ensure proper cooling
5. To obtain a negative voltage, reverse the polarity on the output terminals of the power supply

Safety Precautions

1. Keep unit free from dirt and dust
2. Keep sides of unit free from obstructions
3. If unit is overheating or exhaust fan is not turning on, Consult manufacturer. Fan should turn on when unit temperature reaches 45°C
4. Do not short Positive and Negative terminals
5. Do not subject units to loads greater than 5A
6. Do not subject Voltmeter function to voltages greater than 30V

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.

Soldering Tip Care

1. For first use, allow the tip to rise to a stable temperature. Clean the tip on the damp sponge and tin the tip (apply a small amount of fresh solder to the tip).
2. Never hit the soldering iron or tip on anything to remove excess solder.
3. Do not use extreme temperature with the soldering iron tips, doing so will shorten the life span of the tip.
4. Clean the tip before each use, using the copper cleaning brush for better temperature stability during cleaning.
5. Always clean and re-tin the tip after each use. This will aid in the prevention of oxidation on the tip and help extend the life span.
6. Do not allow the soldering iron or the tips to sit idle at high temperatures for extended periods of time.
7. Never use a file or other abrasive materials to remove oxidation from the tips.
8. To remove oxidation, simply flood the tip with fresh solder and wipe it clean on the damp sponge or copper cleaning pad. This may need to be repeated several times for badly oxidized parts.
9. To remove the yellowing on the tip shaft, which is perfectly normal especially after first use, clean with 90% Isopropyl alcohol.

Install/Remove Soldering Iron Tip

1. Turn off the power to the unit and unplug from the power source.
2. Allow the soldering iron and tip to reach room temperature.
3. Loosen the nut at base of the metallic shaft of the soldering iron.
4. Slide the metallic tube off of the soldering iron and tip.
5. Slide the tip off of the heating element.
6. Repeat in the reverse order for installation. *Do not overtighten the nut on the soldering iron.*

Install/Remove Hot Air Attachment

1. Turn the power off to the unit and unplug it from the power source.
2. Allow the hot air gun and attachment to reach room temperature before proceeding.
3. Do not use excessive force when installing/removing hot air attachments. Loosen the screw and nut from the attachment by holding the nut with a pair of pliers and turning the screw counterclockwise.
4. Slide the attachment off of the metallic shaft of the hot air gun.
5. Repeat in the reverse order for installation. *Do not overtighten the screen and nut on the hot air gun.*

Troubleshooting Guide

Nothing appears to happen when turning on the unit	<ul style="list-style-type: none">• Check to ensure that the unit is plugged in• Make sure that the plug used is grounded• Check for a blown fuse on the main power input and replace it if needed• Make sure the main breaker in the house is not tripped• Contact the manufacturer
Soldering Iron not heating.	<ul style="list-style-type: none">• Ensure unit is plugged into a grounded outlet• Ensure that the proper power switch is on• Ensure the soldering iron is securely attached to the unit• Replace the heating element• Contact the manufacturer
Hot air gun not getting hot	<ul style="list-style-type: none">• Ensure the unit is plugged into a grounded outlet• Ensure the correct power switch is turned on• Replace the heating element• Contact the manufacturer

No/insufficient airflow	<ul style="list-style-type: none"> • Ensure there are no blockages in the nozzle or hot air gun shaft • Adjust the air flow knob to a higher setting • Contact the manufacturer.
Noisy unit	<ul style="list-style-type: none"> • Ensure the unit is on a flat, level surface • Ensure all of the screws and brackets are secure • Contact the manufacturer
Excessive vibration coming from the unit	<ul style="list-style-type: none"> • Ensure the screws from the bottom of the unit have been removed • Ensure the unit is on a flat level surface • Contact the manufacturer

Replacing Heating Elements

Soldering Iron

1. Turn off the unit and unplug it from the power source.
2. Allow the unit to reach room temperature before proceeding.
3. Disconnect the soldering iron from the unit.
4. Loosen the nut on the metallic shaft.
5. Slide the metallic shaft off of the soldering iron.
6. Remove the soldering iron tip and inner shaft.
7. Unscrew the plastic nut from the top of the soldering iron.
8. Push the cord through the bottom of the soldering iron while pulling the heating element out of the top of the soldering iron, exposing the circuit board
9. Unsolder the existing heating element, taking note of the wire color and location.
10. Remove the heating element.
11. Replace the heating element.
12. Solder the new element leads in the correct location.
13. Pull the cord out the bottom of the soldering iron while pushing the new heating element into the top, aligning it with the notches.
14. Replace the plastic nut to the top of the soldering iron and tighten.
15. Replace the inner, small metallic shaft.

16. Replace the tip over the heating element.
17. Replace the outer metallic shaft of the soldering iron.
18. Replace the metallic nut and tighten.

Hot Air Gun

1. Turn off the unit and unplug it from the power source.
2. Allow the unit to reach room temperature before proceeding.
3. Remove any attachments that are on the hot air gun.
4. Remove the 3 screws on the hot air gun.
5. Slide the silicone tubing off of the hot air gun.
6. Pull the two halves of the hot air gun apart (they are glued together).
7. Slide the metallic shaft off of the heating element.
8. Remove the fiberglass paper from the heating element.
9. De-solder the broken heating element, paying special attention to wire color and placement.
10. Solder the new heating element leads in the correct places.
11. Wrap the new heating element in mica paper.
12. Slide the metallic shaft over the heating element and place it back into the hot air gun. Line up the holes with the standoff present in the gun.
13. Put the two sides of the hot air gun back together, lining up with the holes on the metallic shaft.
14. Reinsert the 3 screws and tighten them.
15. Reattach the silicone hose.

X-TRONIC INTERNATIONAL, INC. 3-YEAR WARRANTY

All X-Tronic Products come with 3-Year Guarantee, valid only in the 48 Contiguous United States. If you purchase this product and ship it to a destination outside of the 48 Contiguous United States this warranty becomes null and void. This Guarantee covers the main unit itself. Consumable parts such as soldering tips, heating elements, nozzles, etc. are not covered by this warranty.

The first 30 Days are covered by a Money Back or Replacement Guarantee from the date of the receipt of the product. If your product becomes damaged in shipment or is found to be defective in any way during this period, we will replace or issue a complete refund for your product upon return. We will pay all shipping involved during this first 30-day period.

The remainder of the 3 Years (after the first 30 days) is covered by a FREE REPAIR Guarantee (parts and labor included). If anything becomes defective during this period we will fix the issue and provide a full service inspection to your product, shipping (to & from) will be paid by the buyer. Please email us at Info@XTronicUSA.com to set up a service request.

Returns of New/Unused Products

If you have Buyer's Remorse and decide that you do not want the product, it must be returned NEW & UNUSED in the original box and you will pay the return shipping. PLEASE NOTE: There will be a 10% Restocking Fee and original Shipping Costs (if applicable) will not be refunded. **Used product cannot be returned.**

How To Register Your Warranty

Go to www.XTronicUSA.com. Click on "Register Your Warranty" tab and fill out the form. This is a fully secure website. Your information will never be sold or misused in any way. This registration site is strictly for order verification that will be used to speed up the process should you ever need to use your Warranty for service.

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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



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