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X-TRONIC FBA_3020-XTS

X-Tronic 3020-XTS Soldering Iron Station User Manual

Model: FBA_3020-XTS | Brand: X-TRONIC

1. INTRODUCTION

The X-Tronic Model 3020-XTS Digital 75 Watt Soldering Station is designed for both beginners and expert users, offering powerful and precise temperature control for various soldering applications. This unit heats up rapidly, ensuring efficiency in your work.

1.1 Safety Information

Please read and understand all safety warnings and operating instructions before using this product. Failure to do so may result in electric shock, fire, or serious injury.

- Always operate the soldering station in a well-ventilated area.
- Soldering irons reach very high temperatures. Avoid direct contact with the soldering tip.
- Always unplug the unit when not in use or before performing maintenance.
- Keep out of reach of children.
- **Proposition 65 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. For more information, go to www.P65Warnings.ca.gov.

2. INCLUDED COMPONENTS

Your X-Tronic 3020-XTS Soldering Iron Station package includes the following items:

- 1 - Soldering Station Power Unit
- 2 - Helping Hands (Attachable/Detachable)
- 1 - Soldering Iron with Ergonomic Grip
- 1 - 50g Roll of Lead Free Solder
- 1 - Spring Steel Soldering Iron Holder
- 1 - Solder Roll Holder on Side of Main Unit

- 1 - Brass Sponge Soldering Tip Cleaner with Supply of Cleaning Flux in Round Tin
- 1 - Wet Sponge Soldering Tip Cleaner
- 1 - Complete Instructions



Figure 2.1: All components included with the X-Tronic 3020-XTS Soldering Iron Station.

3. FEATURES

The X-Tronic 3020-XTS Soldering Iron Station boasts several features designed for optimal performance and user convenience:

- **75-Watt LED Digital Display:** Provides clear temperature readings and settings.
- **Quick Temp Heating:** Heats from 200°C to 480°C (392°F to 896°F) in less than 30 seconds.
- **ESD Safe:** Protects sensitive electronic components from electrostatic discharge.
- **10 Minute Sleep Timer:** Automatically reduces tip temperature after 10 minutes of inactivity to prolong tip life

and save energy.

- **°C/°F Conversion Switch:** Easily switch between Celsius and Fahrenheit temperature displays.
- **PID Technology:** Proportional-Integral-Derivative (PID) technology ensures stable and accurate temperature control.
- **Flexible Soldering Iron Cord:** 40-inch pliable cord offers ease of movement during use.
- **Integrated Helping Hands:** Two attachable/detachable helping hands for securing PCBs and small components.
- **Side Mount Solder Roll Holder:** Conveniently holds a roll of solder for easy dispensing.
- **Brass Sponge & Wet Sponge Cleaners:** Provides effective tip cleaning options.

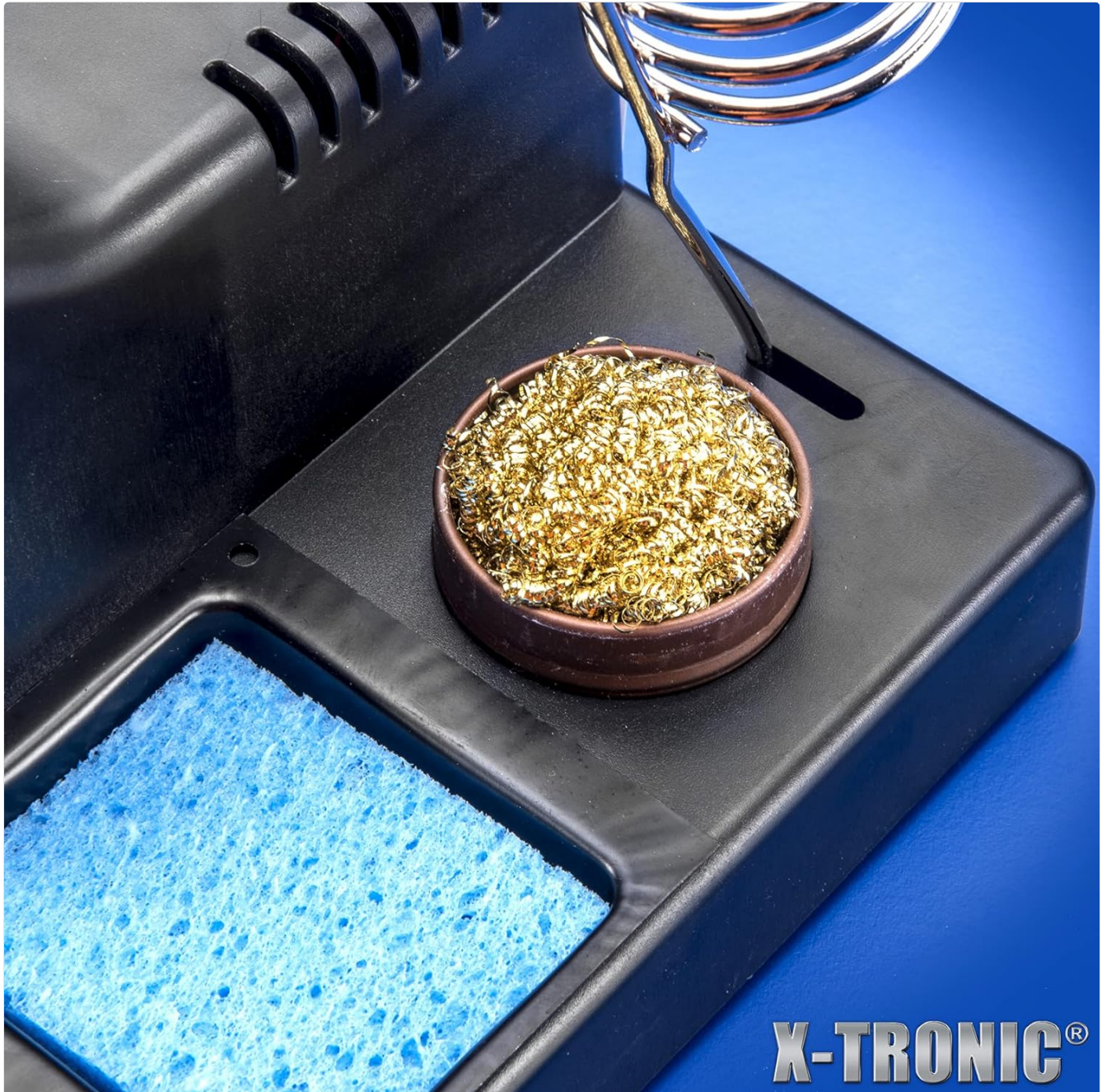


Figure 3.1: The digital control panel for temperature adjustment and display.

4. SETUP

4.1 Unpacking

Carefully remove all components from the packaging. Inspect for any damage that may have occurred during shipping. Retain packaging for future storage or transport.

4.2 Assembly

1. Place the main soldering station unit on a stable, heat-resistant surface.
2. Attach the spring-style soldering iron holder to the designated slot on the unit.
3. Insert the brass sponge and wet sponge into their respective compartments. Ensure the wet sponge is moistened with water before use.
4. If desired, attach the two helping hands to the side ports of the main unit.
5. Mount the solder roll onto the side solder roll holder.
6. Connect the power cord to the main unit and then to a grounded electrical outlet.

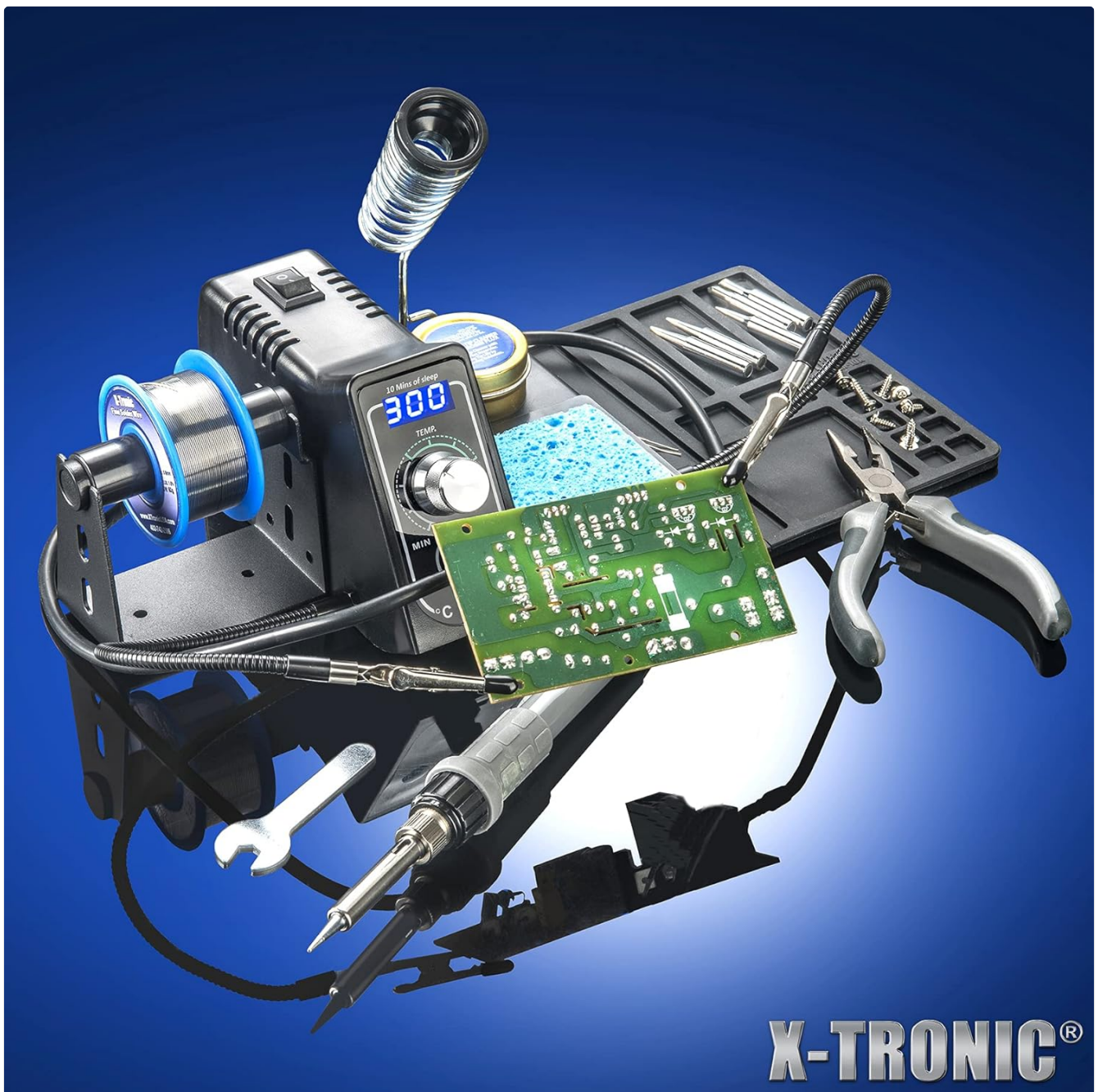


Figure 4.1: The soldering station fully assembled and ready for use.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

To power on the unit, flip the main power switch located on the top of the station. The LED display will illuminate. To power off, flip the switch back to the OFF position.

5.2 Temperature Adjustment

Use the rotary knob on the control panel to set the desired temperature. The LED display will show the set temperature and then the actual tip temperature as it heats up or cools down. You can switch between Celsius (°C) and Fahrenheit (°F) using the toggle switch below the knob.



Figure 5.1: The ergonomic soldering iron with a fine tip.

5.3 Soldering Techniques

Ensure the soldering tip is clean and tinned before each use. Apply a small amount of solder to the tip to improve heat transfer. Place the heated tip onto the joint to be soldered, then apply solder to the joint itself, not directly to the

iron. Allow the solder to flow smoothly and evenly. Remove the iron and allow the joint to cool naturally.

5.4 10 Minute Sleep Feature

The soldering station is equipped with a 10-minute sleep timer. If the iron is not moved for 10 minutes, the unit will automatically reduce the tip temperature to a lower, safe temperature to prevent oxidation and prolong tip life. Moving the iron will instantly bring it back to the set operating temperature.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your soldering station.

6.1 Tip Cleaning

Regularly clean the soldering tip to remove excess solder and oxidation. Use the brass sponge for dry cleaning, which helps preserve the tip's plating. For more thorough cleaning, use the wet sponge (ensure it is damp, not soaking wet) to wipe the tip. Always re-tin the tip with a small amount of fresh solder after cleaning.

X-Tronic 3020-XTS

Accessories

- Brass Sponge & Rosin Flux
- 100% Silicone Tool/Parts Mat
- Set of 2 Helping Hands



Figure 6.1: Brass sponge and wet sponge for maintaining soldering tip cleanliness.

6.2 General Cleaning

Keep the main unit and accessories clean by wiping them with a dry, soft cloth. Avoid using abrasive cleaners or solvents that could damage the unit's finish or internal components.

7. TROUBLESHOOTING

If you encounter issues with your X-Tronic 3020-XTS Soldering Iron Station, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Iron not heating up / Display shows "181"	Loose connection, faulty heating element, or internal issue.	Ensure the power cord is securely plugged in. Verify the iron's connection to the main unit. If the issue persists, contact X-Tronic customer support.
Temperature fluctuates significantly	Poor tip contact, dirty tip, or environmental factors.	Clean and re-tin the soldering tip. Ensure the tip is properly seated in the iron. Avoid drafts or sudden temperature changes in the work area.
Solder not melting easily	Incorrect temperature setting, oxidized tip, or unsuitable solder.	Increase the temperature setting. Clean and re-tin the tip thoroughly. Ensure you are using appropriate solder for your application.

If you are unable to resolve the issue using the troubleshooting steps above, please contact X-Tronic customer support for further assistance.

8. SPECIFICATIONS

Specification	Value
Model Number	FBA_3020-XTS
Wattage	75 Watts (60W for iron, 15W for motherboard)
Voltage	110 Volts (AC)
Temperature Range	200°C - 480°C (392°F - 896°F)
Temperature Stability	±3.6°F
Display Type	LED Digital Display
Sleep Feature	10 Minute Automatic Sleep
ESD Safe	Yes
Item Weight	1 Pound
Product Dimensions	6 x 5.5 x 8 inches
Material	High Impact Polystyrene & Metal
UPC	892198000586

9. WARRANTY AND SUPPORT

9.1 Warranty

X-Tronic products come with a **3-Year Warranty**. Terms and conditions may apply. Please refer to the warranty card included with your product or visit the official X-Tronic website for full details.



Figure 9.1: The X-Tronic 3020-XTS Soldering Station, backed by a 3-Year Warranty.

9.2 Customer Support

X-Tronic is a US-based brand committed to customer satisfaction. We offer **Lifetime Support** from our experienced technicians. For any questions, technical assistance, or warranty claims, please contact X-Tronic customer service through the contact information provided in your product documentation or on the official X-Tronic website.