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TOAUTO DS90

TOAUTO DS90 Soldering Station User Manual

Model: DS90 (Blue)

INTRODUCTION

Thank you for choosing the TOAUTO DS90 Soldering Station. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new soldering station. Please read this manual thoroughly before use and retain it for future reference.



Image: The TOAUTO DS90 Soldering Station, showcasing the main unit, soldering iron, solder wire holder, various soldering tips, solder sucker, and anti-static tweezers.

SAFETY PRECAUTIONS

Always observe the following safety guidelines to prevent injury or damage to the equipment:

- Ensure the soldering station is connected to a properly grounded power outlet.
- Do not touch the soldering iron tip or heating element when the unit is powered on, as temperatures can reach over 800°F (400°C).
- Use in a well-ventilated area to avoid inhaling solder fumes. Consider using a fume extractor.
- Always place the soldering iron in its stand when not in use.
- Keep flammable materials away from the soldering area.
- Disconnect the power before cleaning or performing maintenance.
- The unit features an anti-static design and grounding wire. Utilize these features to protect sensitive electronic components from electrostatic discharge (ESD).



Image: Close-up of the soldering station highlighting the external ground wire connection and the anti-static design for safe operation with sensitive electronics.

PRODUCT FEATURES

- **Dual Digital Display:** Simultaneous display of temperature in both Fahrenheit (°F) and Celsius (°C) for intuitive monitoring.
- **Fast Heating:** Equipped with a 90W high-power ceramic heating core, reaching 590°F (310°C) in approximately 5 seconds.
- **Intelligent Temperature Control (PID):** Advanced PID program ensures precise and stable temperature, with rapid compensation for consistent performance.
- **Auto Standby & Sleep:** Automatically enters standby mode after 10 minutes of inactivity and sleep mode after 20 minutes, enhancing safety and tip longevity.
- **Anti-Static Design:** Patented grounding wire and static removal sheet protect sensitive components from ESD damage.
- **Temperature Locking:** Maintains a constant temperature for reliable soldering operations.
- **Comprehensive Kit:** Includes 5 additional soldering tips, solder wire, solder sucker, anti-static tweezers, brass tip cleaner, and cleaning sponge.

HIGH-QUALITY WELDING TOOLS

ANTI-STATIC DESIGN

Temperature Adjustable

302°F- 842°F/150-450°C

meet different working requirements

90W Fast Heating Up

takes only 9 SECONDS to reach the melting point of 572°F



Image: An overview of the TOAUTO DS90 Soldering Station highlighting its key features such as dual display, anti-static design, PID control, temperature adjustability, auto standby/sleep, and temperature locking.



Image: A close-up of the soldering station's digital display, showing both Fahrenheit and Celsius temperature readings simultaneously.

SETUP

- Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in the "Comprehensive Kit" feature are present.
- Placement:** Place the soldering station on a stable, heat-resistant, and non-flammable surface. Ensure adequate ventilation around the unit.
- Solder Wire Holder:** Attach the solder wire holder to the side of the main unit if not already assembled. Mount the included lead-free solder wire onto the holder.
- Soldering Iron Connection:** Connect the soldering iron cable securely to the designated port on the front of the soldering station.

5. **Grounding Wire:** For optimal ESD protection, connect the grounding wire to a suitable ground point on your workbench or a dedicated grounding mat.
6. **Power Connection:** Plug the power cord into a standard 110V AC grounded electrical outlet.
7. **Tip Installation:** Select the appropriate soldering tip for your task and securely insert it into the soldering iron. Ensure it is fully seated.
8. **Cleaning Accessories:** Place the brass tip cleaner in its designated slot and dampen the cleaning sponge with water before placing it in its tray.



Image: A visual guide to the various components included with the soldering station, such as anti-static wiring, lead-free solder wire, elbow tweezers, and solder sucker, demonstrating their use.

OPERATING INSTRUCTIONS

1. **Power On:** Flip the power switch located on the front of the unit to the "ON" position. The digital display will illuminate.
2. **Temperature Adjustment:** Use the rotary knob to set the desired temperature. The display will show both Fahrenheit and Celsius readings. The temperature range is 302°F to 842°F (150°C to 450°C).
3. **Temperature Lock:** Press the "LOCK" button to engage the temperature lock function. This prevents accidental temperature changes during operation. Press again to unlock.
4. **Heating:** The soldering iron will rapidly heat to the set temperature. The display will show the current temperature.
5. **Soldering:** Once the desired temperature is reached, the iron is ready for use. Apply the tip to the joint to be soldered, then feed solder wire onto the heated joint.
6. **Auto Standby/Sleep:**
 - If the iron is not used for 10 minutes, it will automatically enter standby mode, reducing the tip temperature to a safe level.
 - After 20 minutes of inactivity, the unit will enter sleep mode, further reducing power consumption and increasing safety.
 - To resume operation from standby or sleep, simply pick up the soldering iron. It will quickly return to the set temperature.
7. **Power Off:** When finished, place the soldering iron in its stand and turn off the power switch. Allow the iron to cool completely before storing.

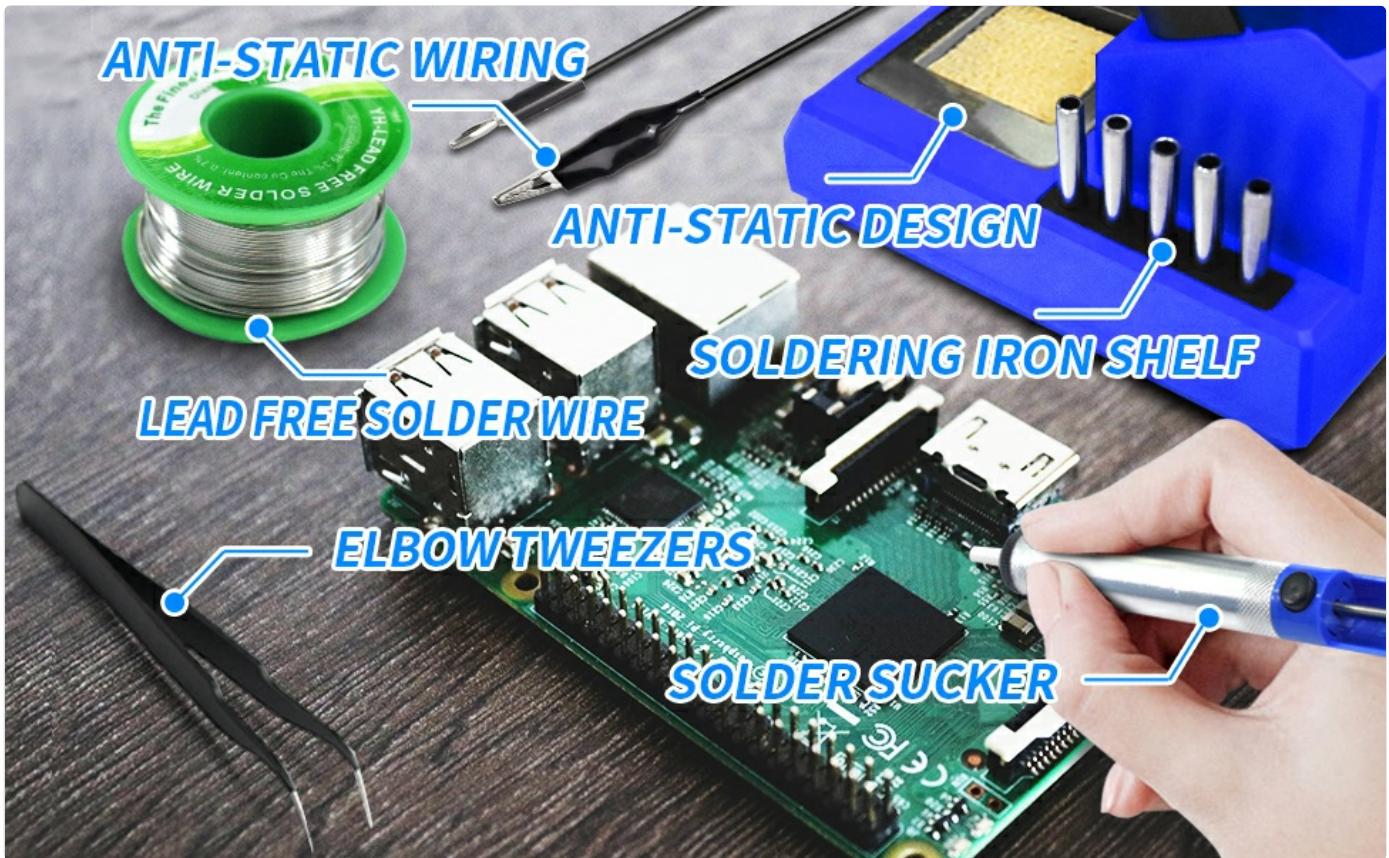


Image: A visual representation of the auto standby (10 minutes) and auto sleep (20 minutes) functions, showing the soldering iron in its holder and the display indicating the mode.

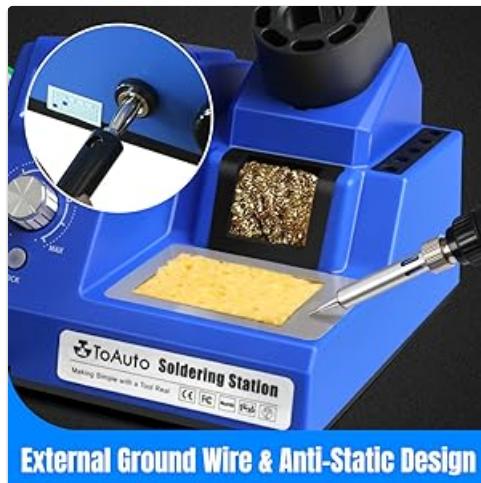


Image: An illustration demonstrating the rapid heating capability of the 90W soldering iron, showing it reaching operating temperature quickly.

MAINTENANCE

- **Tip Cleaning:** Regularly clean the soldering tip using the brass tip cleaner or a damp sponge. This removes oxidation and old solder, ensuring efficient heat transfer.
- **Tip Tinning:** After cleaning and before storing, always tin the tip with a small amount of fresh solder. This protects the tip from oxidation and extends its lifespan.
- **Replacing Tips:** Ensure the soldering iron is cool before attempting to replace tips. Unscrew the retaining collar, remove the old tip, insert the new tip, and re-secure the collar.
- **Unit Cleaning:** Wipe the main unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Solder Sucker Maintenance:** Periodically disassemble and clean the solder sucker to ensure proper suction.

5PCS welded ceramic heater, weld firmly
long service life, easy to replace

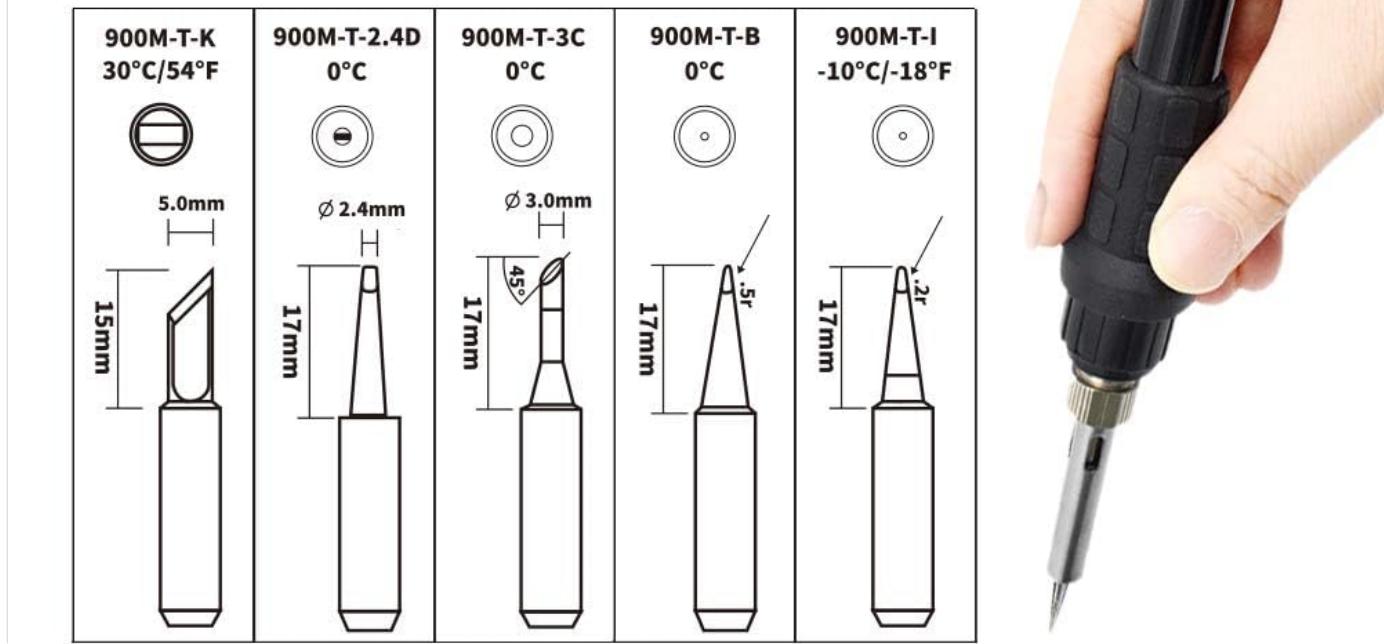


Image: A display of the five different types of soldering tips included with the kit, along with their dimensions and typical uses, emphasizing their welded ceramic heater for long service life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Iron not heating / No display	Power switch off; Power cord disconnected; No power from outlet.	Ensure power switch is ON; Check power cord connection; Verify outlet has power.
"SE" error on display	Sensor failure.	Turn off the unit, unplug, wait a few minutes, then plug back in and restart. If the error persists, contact customer support.
"HE" error on display	Heating element failure.	Turn off the unit, unplug, wait a few minutes, then plug back in and restart. If the error persists, contact customer support.

Problem	Possible Cause	Solution
Poor solder joints / Solder not melting	Incorrect temperature setting; Oxidized tip; Dirty tip; Insufficient power.	Increase temperature; Clean and tin the tip; Ensure proper tip contact with joint; Verify unit is receiving full power.
Iron not entering standby/sleep	Iron not placed correctly in stand; Sensor malfunction.	Ensure iron is fully seated in its holder; If issue persists, contact customer support.

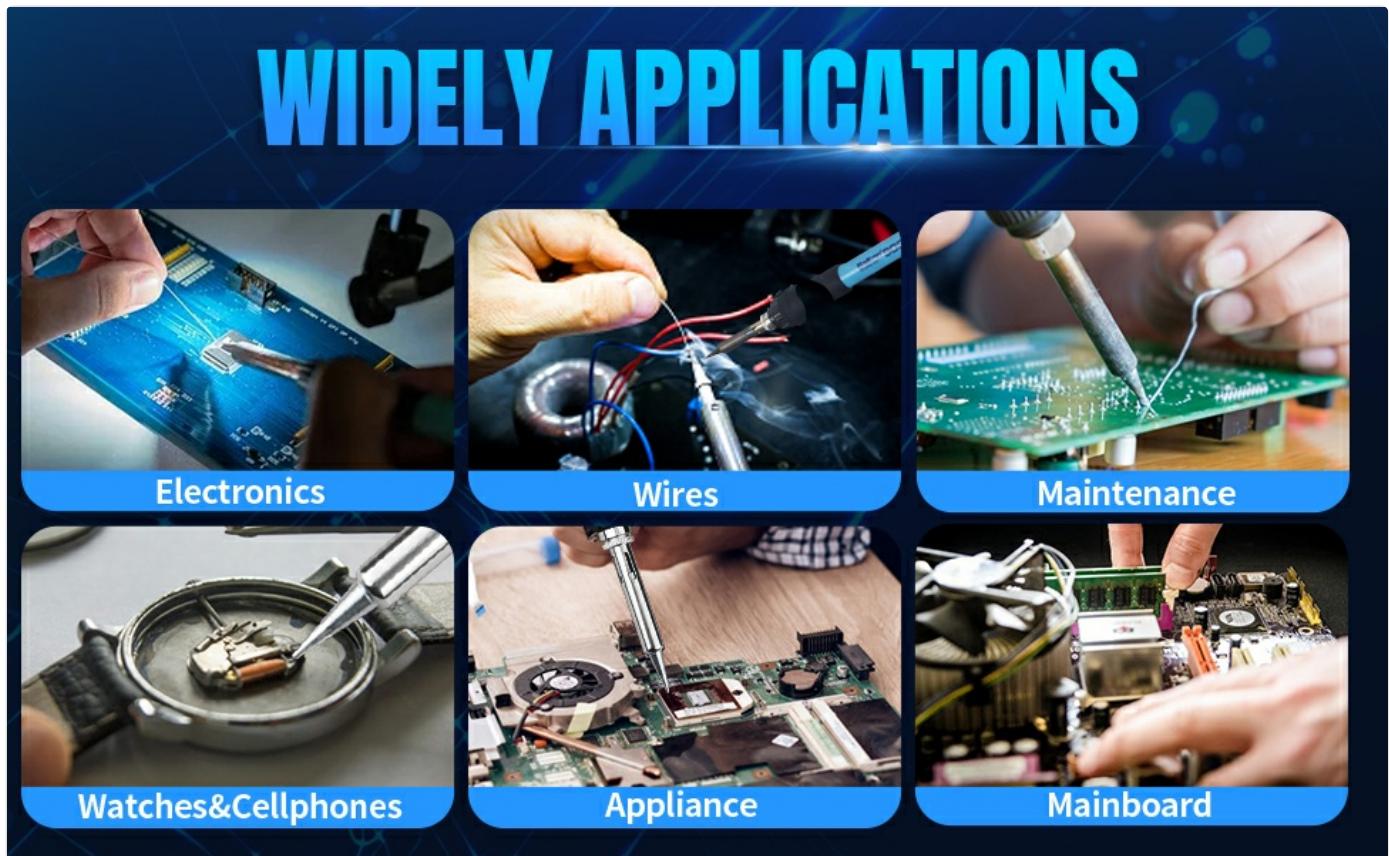


Image: The soldering station display showing error codes "SE" (Sensor fails) and "HE" (Heating element failure), indicating potential issues with the unit's components.

SPECIFICATIONS

Feature	Detail
Model	DS90 (Blue)
Power	90 Watts
Voltage	110 Volts
Temperature Range	302°F - 842°F (150°C - 450°C)
Temperature Stability	±2°C
Display Type	LED Dual Digital Display (°F / °C)

Feature	Detail
Auto Standby	10 minutes inactivity
Auto Sleep	20 minutes inactivity
Dimensions (L x W x H)	7.87 x 5.51 x 7.09 inches (153x165x99mm)
Item Weight	1.76 pounds (0.8 kg)
Cord Length	1 Meter
Certifications	CE, FCC, ESD, RoHS Safe
Included Components	Soldering Station, Soldering Iron, 5 x Soldering Tips, Solder Wire, Solder Sucker, Anti-static Tweezers, Brass Tip Cleaner, Cleaning Sponge, Instruction Manual

WARRANTY AND SUPPORT

TOAUTO provides a **1-year warranty** for this product from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

Additionally, TOAUTO offers **lifetime technical support** for the DS90 Soldering Station. If you encounter any issues or have questions regarding the operation, maintenance, or troubleshooting of your unit, please do not hesitate to contact our support team.

A **30-day return policy** is also available from the date of purchase. Please refer to your purchase documentation for specific return instructions.

For support, please visit the official TOAUTO store or contact customer service through your point of purchase.

TOAUTO Official Store: [TOAUTO Store on Amazon](#)

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Related Documents - DS90

	<p>Secret Jardin DF16 Extractor Instruction Manual</p> <p>This document provides comprehensive instructions for the Secret Jardin DF16 Extractor, covering setup, user interface controls, technical specifications including airflow and tent compatibility, thermal sensor operation, combining multiple units, and essential safety precautions. It details model DF16E350 and compatible filters like DF16F150, DF16F250, and DF16F350 for various grow room sizes (DS60, DS90, DS120).</p>
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[Secret Jardin DF16 Extractor Instruction Manual](#)

Comprehensive instruction manual for the Secret Jardin DF16 Extractor, covering setup, user interface, technical data, safety guidelines, and conformity declarations for models like DF16E350 and DF16E150.



[Interstate Batteries XTZ5S-BS Compatibility Guide](#)

A comprehensive compatibility guide for Interstate Batteries XTZ5S-BS, detailing its application across various ATV, Motorcycle, and Scooter models from brands like BRP, Honda, Kawasaki, KTM, Suzuki, and Yamaha.



[Hoco Wireless Speaker Certificate of Conformity - EAEU Compliance](#)

Official register entry for Hoco wireless speakers, detailing conformity to EAEU Technical Regulation TR TS 020/2011 on electromagnetic compatibility. Includes manufacturer, applicant, and certification body details.