

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.horizonhobby.com or towerhobbies.com and click on the support tab or resources tab for this product.

MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

14+ AGE RECOMMENDATION: Not for children under 14 years. This is not a toy.

Safety Precautions and Warnings

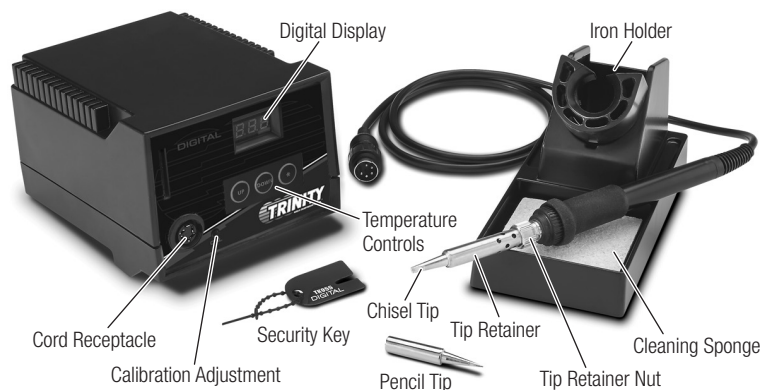
CAUTION: When the power is ON, the tip temperature is between 200°C / 400°F and 480°C / 899°F. Mishandling may lead to burns or fire. To prevent damage to the unit and ensure a safe working environment, please comply with the following precautions:

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

- Do not touch the metallic parts while operating.
- Always store the soldering station in the holder when not in use.
- Do not use the soldering station near flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- Turn the power OFF during breaks and after use.
- Before replacing parts or storing the soldering station, turn the power OFF and allow the soldering station to cool to room temperature.
- Do not use the soldering station for applications other than soldering.
- Do not hit the soldering station against the work bench or other objects to remove residual solder.
- Do not modify the soldering station.
- Use only genuine replacement parts.
- Do not bend or damage the security key. If the key becomes bent, do not force it into the soldering station.
- Do not allow the soldering station to become wet. Do not use the soldering station when your hands are wet.
- Use the soldering station in a well ventilated area as the soldering process produces smoke.

Packing List

- TRIR0955 Soldering Station
- Iron Holder with Sponge
- Pencil Tip
- Soldering Iron with Tip
- 2 Security Keys



Setup and Operation

1. Place the optional graphic wrap on the digital soldering station. Scan the QR code to download the optional wrap.
2. Plug the soldering iron cord assembly to the receptacle. Secure it by rotating the retaining clip clock-wise.
3. Install the desired tip.
4. Saturate the cleaning sponge with water, and place it into the holder.
5. Plug the power cord into a grounded outlet.
6. Turn the power switch ON. The heater LED flickers when the temperature has stabilized.



Setting the Temperature

CAUTION: While setting the temperature, ensure the heating element is OFF. When the power is ON, the tip temperature is between 200°C / 400°F and 480°C / 899°F. Mishandling may lead to burns or fire.

1. Insert the slotted end of the security key into the key slot. The left-most display digit (100s digit) flashes, indicating the station is in the temperature setting mode and the 100s digit can be adjusted.
2. Press the **UP** or **DOWN** button to select the desired value.
3. Press the ***** button when the desired value is displayed. The middle digit (10s digit) in the display flashes.
4. Press the **UP** or **DOWN** button to select the desired value.
5. Press the ***** button when the desired value is displayed. The right digit (1s digit) in the display flashes.
6. Press the **UP** or **DOWN** button to select the desired value.
7. Press the ***** button to:
 - A. Enter the temperature setting into the internal memory.
 - B. Display the temperature setting.
 - C. Start the heater control.

Security Key

If the security key remains in the unit, press and hold the ***** button for longer than 1 second. The soldering station enters temperature setting mode. Pressing the ***** button for less than 1 second displays the current temperature setting for two seconds and then shows the tip temperature.

Reinsert the security key to change the temperature setting.

Parameter Adjustments

The following parameters can be adjusted while in parameter input mode:

- A. °C or °F temperature display
- B. Heater error temperature tolerance
- C. Display room temperature for tip calibration

Parameter Input Mode

1. Turn OFF the power switch.
2. Press and hold the **UP** and **DOWN** buttons simultaneously.
3. Turn ON the power switch.
4. Continue pressing the **UP** and **DOWN** buttons until display shows 1C or 1F. The station is in parameter input mode.
5. To change temperature units, use the **UP** and **DOWN** buttons to change between 1C (for Celsius) or 1F (for Fahrenheit).
6. When the desired temperature unit is displayed, press the ***** button. The station is now in the heater error temperature tolerance setting. The temperature displays with the 100s digit flashing.

IMPORTANT: Heater Error Temperature Tolerance: If power is sent to the soldering station and the tip temperature falls below the heater error temperature tolerance, the temperature display flashes. This indicates a possible heater malfunction.

EXAMPLE: The temperature is set to 400°C, and the heater error temperature tolerance is set to 50. If the tip temperature drops below 350°C while power is sent to soldering station, the display flashes, indicating a possible heater malfunction.

7. To change heater error temperature tolerance, use the steps in the **Setting the Temperature** section. The temperature setting for the heater error temperature tolerance must be within the following range: **°C:** 30–150°C; **°F:** 60–300°F. If a temperature value outside this range is selected, the display flashes the 100s digit. If this happens, re-enter a temperature within the range.
8. After entering the heater error temperature tolerance, the soldering station displays the room temperature compensation value.

IMPORTANT: Room Temperature Compensation Value: The room temperature compensation value is the measured temperature of the soldering iron tip. This value is used to calibrate the tip temperature when the soldering iron is replaced.

To calibrate the tip use the following steps:

- A. Allow the soldering station to cool to room temperature for one hour.
 - B. Use a thermometer to measure the room temperature.
 - C. Use a small regular or a cross point screw driver to adjust the screw marked **CAL** on the soldering station until the display indicates the room temperature measured by the thermometer.
9. Press the ***** button to exit the parameter input mode. The soldering temperature displays for two seconds. Power is then supplied to the heater, and normal operation mode begins.

Use

1. For the longest tip life, select the lowest temperature required to properly do the job.
 2. Once the iron has reached the desired temperature, wipe the tip on the cleaning sponge to remove any build up.
 3. Once the tip is clean, coat it with a thin layer of fresh solder. This is called tinning the tip.
 4. Use a minimal amount of solder to properly do the job.
- IMPORTANT:** Extra solder requires extra heat and might cause the item being soldered to overheat.
5. When finished, wipe the tip clean and tin it with fresh solder. Turn OFF the soldering iron, and let it cool before storing.

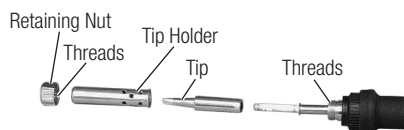
Care

1. Clean the tip regularly using the cleaning sponge. This removes impurities and reduces the oxidation, which can limit heat transfer.
2. Allow the soldering iron to cool after every four hours of use. Remove the tip holder retaining nut, and wipe the threads clean with a dry rag. Re-install the retaining nut finger tight. This will reduce the oxidation build-up that could cause the nut to seize onto the retainer.
3. When not in use, do not leave the unit turned on for long periods of time. Prolonged heating can degrade the tip, even when not in use.
4. Always keep the cleaning sponge moist when using the soldering iron. If the sponge is dry, it will not clean the tip properly and can burn.

- To help reduce oxidation, always wipe and tin the tip with fresh solder when you are finished soldering.
- Check the condition of the tip. Tip life can vary depending upon the temperature used. Replace the tip if it becomes deformed or if solder no longer sticks to it.

Replacing the Tip

- Turn OFF, unplug, and allow the soldering iron to cool to room temperature.
- Loosen and remove the retaining nut.
- Remove the tip holder.
- Remove and dispose of the old tip.
- Wipe the threaded section of the iron and the retaining nut with a dry rag.
- Install the new tip, holder, and retaining nut. The nut should only be tightened to finger tight.
- Plug in and turn ON the soldering iron. When it reaches the desired temperature, wipe the new tip clean on the cleaning sponge, and tin it with fresh solder.



Error Messages

--- = System Error

After the power is ON, the system checks the memory and the programs. If an abnormality is found, --- displays and all operation stops.

S - E = Sensor Error

If there is a possibility of a failure in the sensor or anywhere in the sensor circuit, **S - E** displays, and power to the soldering iron is cut off.

Flashing of temperature display = Heater Error

If power is being sent to the soldering iron and the tip temperature falls below the heater error temperature tolerance, the temperature display flashes. This indicates a possible heater malfunction. **Example:** The temperature is set to 400°C, and the heater error temperature tolerance is set to 50. If the tip temperature drops below 350°C while power is being sent to soldering iron, the display begins to flash indicating a possible heater malfunction.

Replacement Parts

TRIR0960	Replacement 908 Iron TK-950 / 955
TRIR0965	Replacement Sponge TK-950 / 955
TRIR0968	Chisel Tip 3.2mm TK-950 / 955
TRIR0969	Chisel Tip 2.4mm TK-950 / 955
TRIR0970	Pencil Tip 1.0mm TK-950 / 955

Optional Accessories

TRIR0975	Rosin Core Lead Free Silver Solder
TRIR0976	Rosin Core Silver Solder 100g

1-Year Limited Warranty

What this Warranty Covers – Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the “Product”) will be free from defects in materials and workmanship for a period of 1 year from the date of purchase.

What is Not Covered – This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.

Purchaser’s Remedy – Horizon’s sole obligation and purchaser’s sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER’S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability – HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law – These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and Services – Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer

your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services – If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/service-center_render-service-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements – For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service – Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier’s checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon’s Terms and Conditions found on our website http://www.horizonhobby.com/content/service-center_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender’s choice and at the sender’s expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

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Contact Information

Country of Purchase	Horizon Hobby	Email Address/ Phone Number	Address
United States	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	2904 Research Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 877-504-0233	
	Sales	websales@horizonhobby.com 800-338-4639	



Supplier’s Declaration of Conformity

Trinity Digital Soldering Station | TRIR0955

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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