

CircuitSpecialists

CSI 4550 C €

DC POWER Soldering Station

Instruction Manual

Thank you for purchasing the CSI Soldering Station.

Please read the manual before using the unit.

Keep manual in accessible place for future reference.

This manual is designed to familiarize and instruct the technician with the proper operation and maintenance of the equipment. The "Care and Safety Precautions" section explains the hazards of using any type of soldering or reworking device. Please read carefully and observe the guidelines in order to maximize usage and

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PRODUCT DESCRIPTION

The CSI4550 is a performance DC powered soldering iron which is equipped with a quick heating ceramic heater for fast response and heat recovery. The composite tip designs allows easy tip change and best in class performance.

PACKAGE INCLUSION

1 unit CSI4550 Main Station with Soldering Iron

1 pc. DC power supply

1pc. Lite-2B

1pc. Heat resistant pad

1pc. 30x30mm sponge

SAFETY PRECAUTIONS



CAUTION: Improper usage can cause serious injury to personnel and/or damage to equipment and work area. For your own safety, please observe the following precautions.

- Check each component after opening the package to make sure everything is in good condition. If there are any suspected damage, do not use the item and report the issue to your vendor.
- Turn OFF the main power switch and unplug the device from power source when moving the device.
- Do not strike or subject the main unit (and all its components) to physical shock. Use carefully to avoid damage to any part.
- Handle with care.
 - Never drop or sharply jolt the unit.
 - Contains delicate parts that may break if the unit is dropped.
- Make sure the equipment is always grounded. Always connect power to a grounded receptacle.
- Temperature may reach as high as 480°C when switched ON.
 - Do not use the device near flammable gases, paper and other flammable materials.
 - Do not touch heated parts, which can cause severe burns.
 - Do not touch metallic parts near the tip.
- Disconnect the plug from the power source if the unit will not be used for a long period.
 - Turn off power during breaks, if possible.
- Use only genuine replacement parts.
 - Turn off power and let the unit cool down before replacing any part.
- The unit may produce a small amount of smoke and unusual odor during initial usage. This is normal and should not yield any negative result when reworking.
- Soldering process produces smoke — use on well ventilated places.
- Do not alter the unit, specifically the internal circuitry, in any manner.

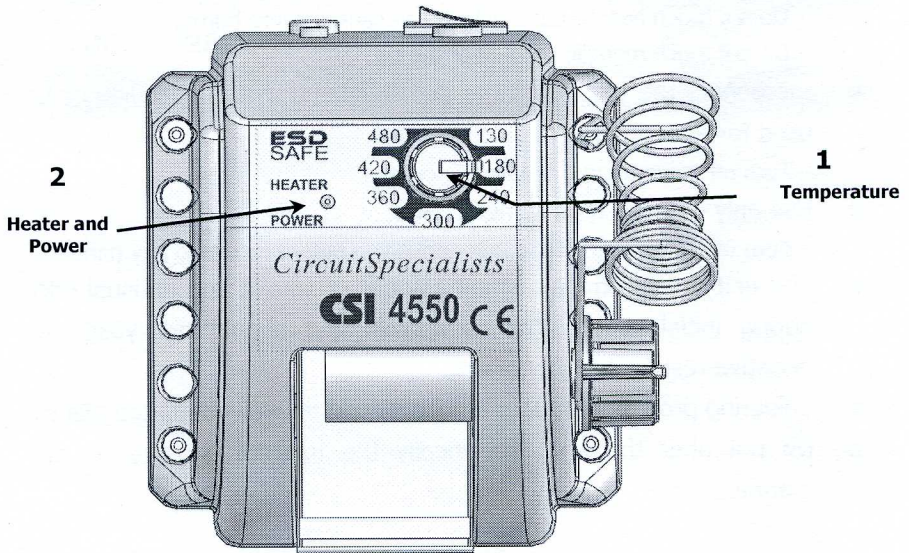
SPECIFICATION

Voltage Input :	12-24V DC
Station Dimensions:	110(w) x98 (h) x 155 (d) mm
Weight:	1.5Kg
Power Consumption:	Max of 70W @ 24V DC
Temperature Range:	130°C - 480°C
Heating Element	Ceramic heater

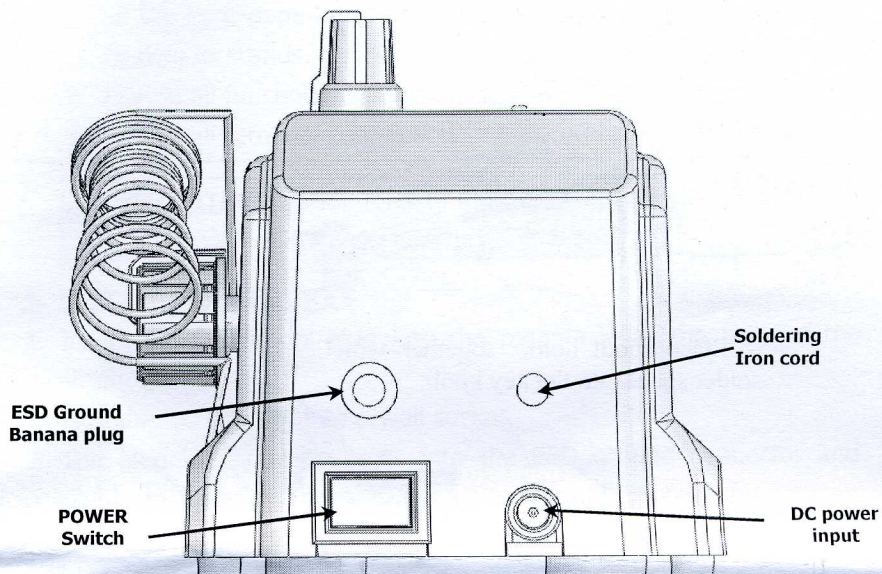
FUNCTIONS and FEATURES

- ESD safe Soldering station with ground connection.
- Composite tip design.
- Compatible with Lead free applications.
- High power heating element for fast heat recovery.

CONTROL PANEL GUIDE TOP

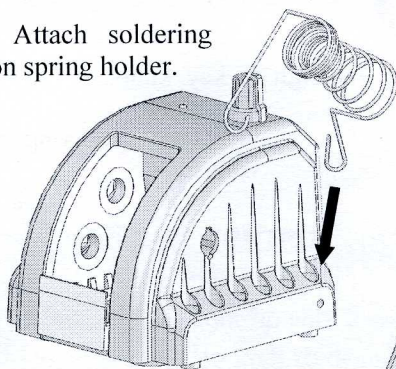


CONTROL PANEL GUIDE BACK

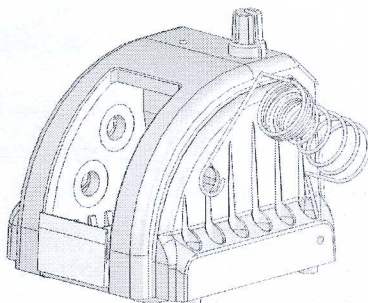


ASSEMBLY GUIDE

1. Attach soldering iron spring holder.

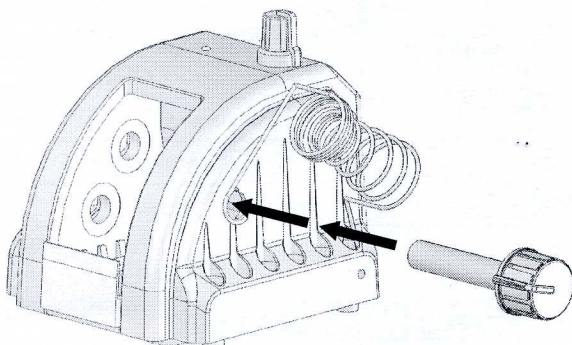


2.

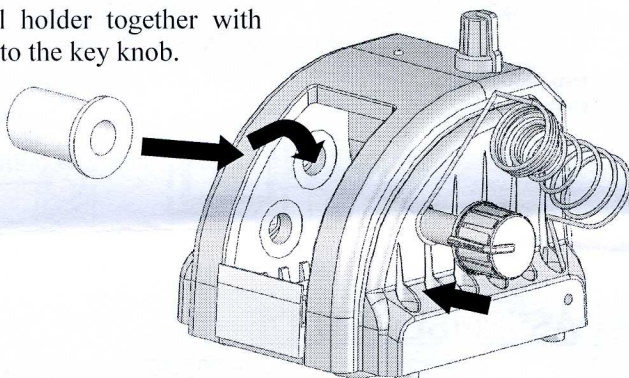


ASSEMBLY GUIDE

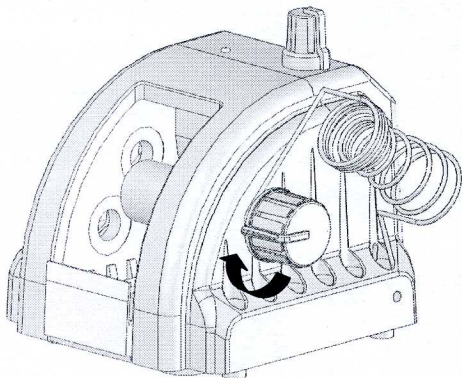
3. Insert key knob half way, take note of key direction.



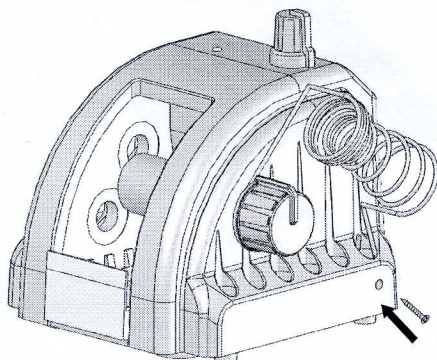
4. Place spool holder together with solder spool into the key knob.



5. Turn key knob 90 degrees to lock and align the key knob.



6. Secure Soldering iron spring with screw



OPERATING GUIDELINES

REMINDERS:

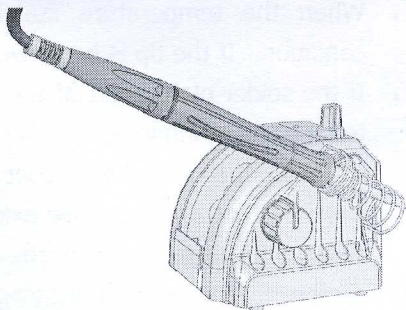
1. Make sure the equipment is placed on a flat stable surface and all the heat-generating components placed on their respective holders or stands.
2. Ensure all function switches are in the OFF position.
3. Ensure all terminal connections are properly secured.



IMPORTANT: Please refer to the **CONTROL PANEL GUIDE** page for panel directory.

A. INITIAL PROCEDURES

1. Insert the DC power plug into the receptacle at the back of the station.
2. Plug the DC adaptor into a wall socket.
3. The plug in a banana jack into the ESD ground connector and secure to a proper ground plane for proper ESD protection.
4. Follow instructions on assembly guide.
5. Place soldering iron to the soldering iron stand as shown .
6. Dampen the sponge with water and squeeze excess water before using. The tips maybe damaged when used with dry sponge.
7. The unit is now ready for use.



B. TEMPERATURE CONTROL

1. Turn the power ON.
2. Power lamp will light up with a red or orange glow.
3. Adjust temperature knob to desired set temperature.
4. The power lamp remains lighted in orange when the tip temperature has not reached the set temperature.
5. You may start soldering when the Heater lamp starts interchanging between red and orange, which indicates set temperature has been reached.

CARE AND MAINTENANCE

1. **Tip Temperature :** High temperature shortens tip life and may cause thermal shock to components. Always use the lowest possible temperature when soldering. Standard temperature settings are 350 to 400 degrees Celsius.
2. **Cleaning :** Always clean the soldering tip before use to remove any residual solder or flux adhering to it. Use a clean and moist cleaning sponge. Contaminants on the tip have many detrimental effects including reduced heat conductivity which contribute to poor soldering performance.
3. **After usage:** Always clean the tip and coat it with fresh solder after use. This guards against oxidation and pro-longs tip life.
4. **System Care:** Never allow the unit to stay idle at high temperature for extended periods. Utilize the automated sleep feature to conserve energy, pro-long tip and heating element life. If unit will not be used for long periods it is advised to power down the unit and unplug from the mains.
5. **Inspecting and cleaning the tip:**
 - ◆ Set the temperature to 250°C.
 - ◆ When the temperature stabilizes, clean the tip and check its condition. If the tip is badly worn or deformed, replace it.
 - ◆ If the solder plated part of the tip is covered with black oxide, apply fresh solder containing flux and clean the tip again. Repeat until all the oxide is removed then coat the tip with fresh solder.
 - ◆ Never file the tip to remove oxide.
 - ◆ Remaining oxides such as the yellow discoloration on the tip shaft can be removed with isopropyl alcohol.

BASIC TROUBLESHOOTING GUIDE

PROBLEM 1: THE UNIT HAS NO POWER

1. Check if the unit is switched ON.
2. Check the power cord and make sure there are no disconnections.
3. Verify that the unit is properly connected to the power source.

PROBLEM 2: TEMPERATURE IS NOT INCREASING

CASE 1: Tip temperature does not increase

SOLUTION:

The soldering iron tip is not connected or its connection is loose pull out the composite tip and insert back into position.

PROBLEM 3: SOLDER IRON TIP IS OVERHEATING

Description: Solder iron tip is getting too hot.

SOLUTION:

Adjust temperature lower. Turn off station and replace with another tip.

PROBLEM 4: OTHER PROBLEMS NOT MENTIONED IN THIS DOCUMENT

SOLUTION: Contact authorized service station.

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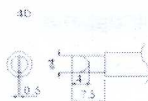
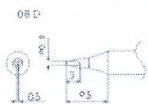
SOLDERING IRON TIPS WITH HEATING ELEMENT

Sold Separately

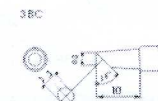
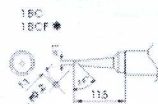
Lite Series Tips



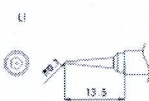
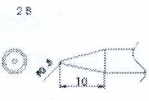
Bevel Type



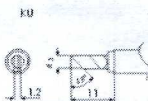
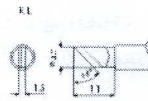
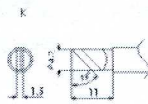
Chisel Type



Conical Type



Blade Type



Flow Type



Sharp-Bent Type



* These tips are fitted on the soldering surface only.