



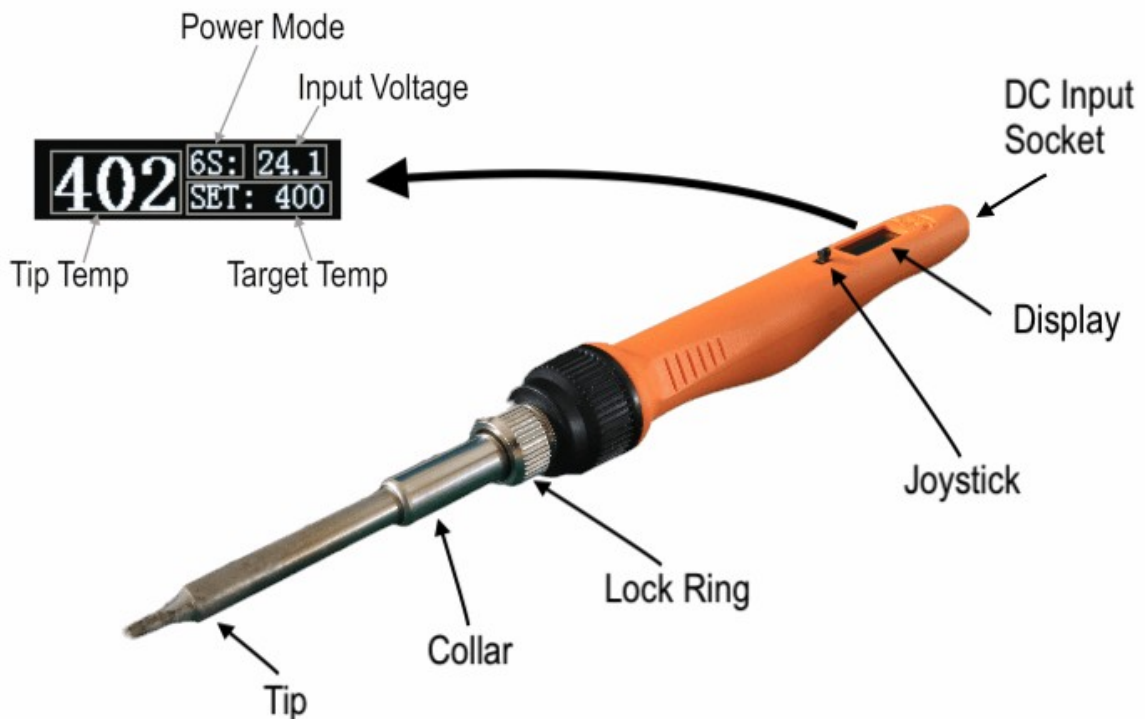
Series 5000 DC Soldering Iron

User Manual

Thank you for purchasing the SolderGo Series 5000 DC soldering iron.
Please read this user manual carefully before operating the soldering iron.
Keep this manual for future reference.

1. PACKAGE CONTENTS *Please check that all items are included in the package.*

SolderGo Series 5000 Soldering Iron	1
SolderGo T12 BC2 Tip	1
Solder Go DC Cable	1 (optional)



2. SPECIFICATION *Specification and design are subject to change without notice.*

• SolderGo 5000 Series Soldering Iron

Dimensions (w/o cable)	21 (W) x 21 (H) x 218 (L) mm [0.82 x 0.82 x 8.58 in.]
Weight (w/o cable)	41 grams [1.43 oz]
Temperature Range	180°C to 450°C [356°F to 842°F]
DC Input	9.0 to 26.0V
Power Consumption	72W

3. WARNINGS, CAUTIONS AND NOTES

In this manual, critical points are marked with warnings, cautions, and notes to draw the operator's attention to significant items. These markers are defined as follows:

⚠ WARNING: Non-compliance with this WARNING could lead to severe injury or even death.

⚠ CAUTION: Non-compliance with this CAUTION may result in injury to the operator, or damage to the items involved.

⚠ WARNING

When the power is turned ON, the tip temperatures may range from 180-450°C (356-852°F). To prevent harm to personnel and equipment in the workspace, please adhere to the following guidelines:

- Do not touch the tip or the metal parts near the tip
- Do not allow the tip to come close to, or touch, flammable materials.
- Inform others in the area that the unit is hot and should not be touched
- Turn the power off when not in use, or left unattended.
- Turn the power off when changing parts or storing the iron.
- This appliance is not meant to be used by individuals (including children) who have limited physical, sensory, or mental abilities, or insufficient experience and knowledge, unless they have received appropriate guidance or instruction on how to use the appliance safely from a person responsible for their well-being.
- Children should be supervised to ensure that they do not play with the appliance.
- In case the power cord or any part of the iron is damaged, refrain from using it and replace the affected part with a new one.

⚠ CAUTION

- Do not use the iron for applications other than soldering.
- Do not strike the iron against hard objects to remove excess solder. This will damage the iron.
- Do not modify the iron.
- Use only SolderGo replacement parts
- Do not allow the iron to become wet, or use it with wet hands
- Remove power and iron cables by holding the plug. Not the wires.
- Be sure the work area is well ventilated. Soldering produces smoke.
- During the use of the iron, refrain from any action that could result in bodily harm or physical damage.

4. INITIAL SETUP

Ensure the tip is located in the iron, the collar is in place and the locking ring is securing the tip into place.

Connect the cable to the iron at the DC input socket.

Plug the cable in to the power source.

Move the joystick left and right to set the target temperature.

Some good starting temperatures for main types of solder.

Lead FREE Based Solder: 316°C to 343°C [600°F to 650°F]

Lead Based Solder: 343°C to 371°C [650°F to 700°F]

Start at the lower temperature for the type of solder you are using then slowly increase the temperature until you have a satisfactory solder.

You want the tip to be hot enough to melt the solder efficiently, if it is too hot you will see splattering from the flux core solder and potentially damage what you are trying to solder.

 **CAUTION:**

- Turn off the power before connecting the lead.
- Make sure the iron has cooled before changing the tip.
- Use only SolderGo iron tips.

5. OPERATION – MENU

Deep Sleep Mode.

To switch the iron off hold the joystick down for 3 seconds, the iron will be in deep sleep to switch it back on hold the joystick down for 1 second.

If the iron is left and not moved for 30 minutes it will go in deep sleep mode, to switch it back on hold the joystick down for 1 second.

Menu

To enter the menu push the joystick down once, use the joystick left and right to scroll through the menu items.

CLBR – FLIP – SLP – BRGT – TEMP – MODE – RES

You can return to the main operating screen by selecting the Arrow or not selecting anything for 5 seconds will automatically return to the main screen.

CLBR – Calibration

In this menu you can use an external thermocouple and calibrate the iron to the external thermocouple. The iron will go through a routine and ask you to input two temperatures once you have done this it will use the algorithm to make an adjustment.

FLIP – Flip screen for Left or Right Handed.

In this menu you can select if you want the screen the other way up for Left or Right handed operation.

SLP – Sleep Time

In this menu this is where you can select the sleep time in seconds. When the iron is not moved for this set time it will turn the tip off and display the word SLEEP. As soon as you pick the iron up it will detect the movement and raise the tip temperature to the set temperature.

****** If you notice a small rattle noise inside the iron this is the mechanical motion sensor to detect movement.***

BRGT – Screen Brightness

In this menu you can set the brightness of the screen.

TEMP – Temperature unit setting.

In this mode you can set the units of temperature for Centigrade °C or Fahrenheit °F

MODE – Power Mode Settings

In this menu you can set which source you are connecting the iron to.

The options are

PSU – Power Supply or USBcPD Input

Lipo – Lithium Cells (detect 3S, 4S, 5S and 6S)

Pb – Lead Acid Battery (detect 12V and 24V)

In each case once you have told the iron what you are connecting to it will detect what type and make some internal settings, if your battery becomes low it will display [LoBAT] on the screen at 20% battery capacity and if your battery reaches 5% capacity it will shut down the tip to avoid damaging the battery and display [ChBAT]

RES – Reset

You can use this to reset everything back to the factory default settings.

6. PARAMETER SETTINGS

MODE = PU (PSU - USBcPD)


SLP = ON 60 (60 seconds to sleep)

BRGT = 20 (20% screen brightness)

FLIP – Right Handed

TEMP – Centigrade °C

Start set temperature = 300oC

 **CAUTION:** If you are connecting to a battery, set the mode to the type of battery you are using.

7. MAINTENANCE


Regular and appropriate maintenance prolongs the life of the product. The quality and quantity of solder and flux, as well as the temperature, are essential for effective soldering. Follow the service procedure that is appropriate for the conditions of use.

 WARNING
--

Due to the soldering iron's ability to reach extremely high temperatures, it is essential to work with caution. Unless otherwise specified, always switch OFF the power and unplug the device before carrying out any maintenance procedures.

Tip Maintenance

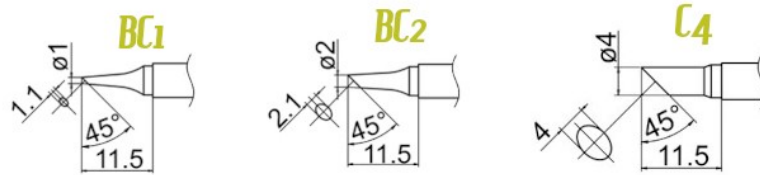
1. Adjust the temperature to 482°F (250°C).
2. After the temperature stabilizes, use the cleaning sponge to clean the tip and inspect its condition.
3. If the solder-plated section of the tip is covered with black oxide, use fresh solder with flux, clean the tip again, and repeat until all oxide is removed. Finally, apply fresh solder to the tip.
4. If the tip is distorted or significantly worn, replace it with a new one.

 **CAUTION:** Do not file the tip, it contains a heating element and temperature sensor that may be damaged if filed.

8. Tip Styles

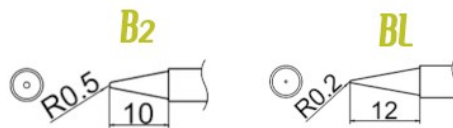
Tip shape BC1, BC2 and C4

These tips have a cone like shape that is cut at an angle which can be used for drag soldering and pre-tinning of lead wires.



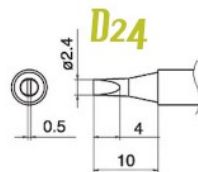
Tip shape B2 and BL

An all round type tips which can be used from any direction, easy to hold at any position and possible to solder most surfaces from small to large.



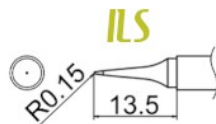
Tip shape D24

This tip has a flat blade like a screwdriver and is capable of soldering in the two ways of line and face, used for any general soldering work.



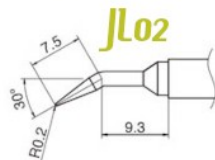
Tip shape ILS

Ultra-fine tip which is suitable for soldering at narrow pitches ideal for micro components such as surface mount components.



Tip shape JLo2

An all round type tip with a bend towards the end making it capable of soldering the tip in 2 ways of face and point. Ideal for drag soldering and correction of bridging.



Tip shape K and KU

These tips have a knife shape and can be used in three ways of line, face and point. Used for narrow pitches, correction and drag soldering.

