

## PORTABLE SOLDERING IRON

OPERATION  
INSTRUCTION

English

## Made in China

Thank you for purchasing this product. Please read the manual carefully before operating & keep this manual for future reference.

## STATEMENT:

The company reserves the right to improve & upgrade products, product specifications & design are subject to change without notice.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life should be collected & returned to an authorized recycling facility. ● Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/EU, los equipos electrónicos al final de su vida se deberán recoger y trasladar a un punto de recogida autorizado. ● Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektrische Geräte am Ende ihrer Lebensdauer gesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

## SPECIFICATION

Model	947 I	947 II	947 III	947 W	947 VII
Control Unit Dimensions	L180*W25*H25mm ±5mm				L215*W28*H28mm ±5mm
Operating Ambient Temp.	0~40°C/32~104°F				
Temperature Range	220°C~480°C/428°F~896°F				
Function Switch	NO	NO	YES	NO	YES
Temperature Control	NO	YES	YES	YES	YES
Operation Indicator	NO	YES	YES	YES	YES

## I. APPLICATIONS

This soldering iron is suitable for rework and soldering works on SMT and through-hole components such as SOP, DIP, SOIC, and more.

## II. OPERATION

1. Open the soldering iron holder, and place the soldering iron onto the holder.
2. Connect the soldering iron to an electrical outlet.
3. Turn ON the function switch, the soldering iron's heating element will begin heating. (Soldering Irons without a function button will begin heating once connected to an electrical outlet)

**CAUTION: Upon the first use of the soldering iron, set the temperature to 250°C/482°F. When the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin core solder is recommended), then set the temperature to your desired value.**

4. Turn the temperature adjustment knob to set the required temperature and begin operation once the soldering iron reaches the set temperature.
5. After use, use a damp sponge or metal wool ball to clean the soldering iron tip. Tin the soldering iron tip with a new layer of solder, then put the soldering iron back to the holder. DISCONNECT the power cord from the electrical outlet when the soldering iron is not use for an extended period.

## III. MAINTENANCE &amp; PRECAUTIONS

1. If a layer of oxidization forms on the surface of the soldering iron tip, a misconception can be created that the soldering tip cannot heat up properly to melt the solder and do the tinning. But the actual temperatures of both the heating element and soldering tip are high. In such an instance, please do not increase the temperature value confusedly but use a metal wool ball to remove the oxidization following the steps below:
  - A. Set the temperature to 300°C (572°F).
  - B. Once the temperature stabilizes, gently rub the soldering iron tip inside the metal wool ball.
  - C. When the oxidization is partially removed, continue applying solder onto the tip while rubbing it until the soldering tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace the tip with a new one.
2. DO NOT use metal files to remove the oxidization on the soldering iron tip. If the soldering iron tip deforms or rusts, replace the soldering iron tip with a new tip.
3. DO NOT apply excessive forces on the soldering tip when soldering. Doing so will not only damage the iron tip but also not improve the heat transfer.

4. When placing the soldering iron back in the holder to idle after a high-temperature operation, adjust the temperature to 250°C(482°F) or below for idling. Failure to do so, and leaving the soldering iron tip to idle in a high-temperature setting will cause the accelerated aging of the heating element, and shorten the lifespan of the heating element and soldering iron tip.
5. After every operation, always clean and tin the iron tip with a layer of solder to prevent oxidization.

## **IV. TROUBLESHOOTING**

The operation indicator turns ON, but the soldering iron is not heating up – This is an indication that the heating element is malfunctioning, you need to replace the heating element.

Tip style (specifications & sizes)

900M Series Tip Out Diam  $\phi$  6.5mm

<p>900M-T-0.8D</p> <p><math>\phi</math> 0.8mm 17mm</p> <p>0°C</p>	<p>900M-T-LB</p> <p>.2r 25mm</p> <p>-10°C/-18°F</p>	<p>900M-T-K</p> <p>5.0mm 15mm</p> <p>30°C/54°F</p>
<p>900M-T-1.2D</p> <p><math>\phi</math> 1.2mm 17mm</p> <p>0°C</p>	<p>900M-T-0.5C</p> <p><math>\phi</math> 0.5mm 45° 15mm</p> <p>0°C</p>	<p>900M-T-R</p> <p>5.0mm 17mm</p> <p>0°C</p>
<p>900M-T-1.6D</p> <p><math>\phi</math> 1.6mm 17mm</p> <p>0°C</p>	<p>900M-T-0.8C</p> <p><math>\phi</math> 0.8mm 45° 17mm</p> <p>0°C</p>	<p>900M-T-RT</p> <p>4.2mm 17mm</p> <p>0°C</p>
<p>900M-T-2.4D</p> <p><math>\phi</math> 2.4mm 17mm</p> <p>0°C</p>	<p>900M-T-1C</p> <p><math>\phi</math> 1.0mm 45° 15mm</p> <p>0°C</p>	<p>900M-T-SI</p> <p>.2r 13mm</p> <p>0°C</p>
<p>900M-T-3.2D</p> <p><math>\phi</math> 3.2mm 17mm</p> <p>0°C</p>	<p>900M-T-1.5CF</p> <p><math>\phi</math> 1.5mm 60° 15mm</p> <p>0°C</p>	<p>900M-T-I</p> <p>.2r 17mm</p> <p>-10°C/-18°F</p>
<p>900M-T-1.2LD</p> <p><math>\phi</math> 1.2mm 25mm</p> <p>-10°C/-18°F</p>	<p>900M-T-2C</p> <p><math>\phi</math> 2.0mm 45° 17mm</p> <p>0°C</p>	<p>900M-T-H</p> <p>3.5mm 7.5mm 25° 19mm</p> <p>-20°C/-36°F</p>
<p>900M-T-SB</p> <p><math>\phi</math> 2mm .2r 14mm</p> <p>0°C</p>	<p>900M-T-3C</p> <p><math>\phi</math> 3.0mm 45° 17mm</p> <p>0°C</p>	<p>900M-T-1.8H</p> <p>1.8mm 7.5mm 25° 14mm</p> <p>-10°C/-18°F</p>
<p>900M-T-B</p> <p>.5r 17mm</p> <p>0°C</p>	<p>900M-T-4C</p> <p><math>\phi</math> 4.0mm 45° 17mm</p> <p>0°C</p>	<p>900M-T-S4</p> <p><math>\phi</math> 2.0mm .25r 15mm</p> <p>0°C</p>