

Operation Manual

Antistatic Soldering Station

61538



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

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If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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Do you wish to pick goods up? Our pick-up address is:

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Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

General safety instructions



Attention: The device may only be used with a residual current circuit breaker with a tripping rated current of up to 30 mA (according to VDE 0100 Part 702 and 738).

This device is not intended to be used by people (including children) with limited physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised or instructed by a person responsible for their safety on how to use this device. Children should be supervised to ensure that they do not play with the device.

During the operation of the device, the temperature of the soldering iron is between 100 °C and 480 °C. This could result in injury or damage to equipment in the work area if the soldering station is not handled carefully.

Please observe the following principles when working with the device:

- After opening the delivery package, please check that each part of the device is in a good condition and that there is no visible damage caused during transit. If there is obvious damage, please do **not** put the device into operation and contact your dealer **immediately**.
- Switch off the device and disconnect the mains plug if you move the device.
- Avoid exposing parts of the device to increased mechanical stress (impact, shock, etc.).



Attention:

- Perform a visual inspection of the device before every use. Do not use the device if safety devices are damaged or worn. Never disable safety devices.
- Only use the device for the purpose specified in these instructions for use.
- You are responsible for the safety in the work area.
- If the cable or plug is damaged due to external influences, the cable must under no circumstances not be repaired, but must be replaced with a new one by a qualified technician.
- The voltage of 230 V AC specified on the type label of the device must correspond to the existing mains voltage.
- Never lift, transport or attach the device to the power cord.
- Make sure that the electrical plug connections are protected from flood and moisture.
- Disconnect the mains plug before carrying out any work on the device.
- Avoid exposing the device to a direct jet of water.
- The operator is responsible for compliance with local safety and installation regulations (ask a qualified electrician if necessary).
- If the device should fail, repair work may only be carried out by a qualified electrician.



Warning: Read all safety instructions and notes. Failure to follow the safety precautions and instructions may result in electric shock, fire and/or serious injury. Keep all safety information and instructions for future reference.

Electrical connection

The electrical connection is made at a 230 V ~ 50 Hz socket outlet with earthing fuse protection at least 10 A.

Commissioning

Place the unit on a level, stable surface with a temperature not higher than 40 °C. Position the unit horizontally so that it may operate correctly. Then connect it to the power supply.

Safety precautions

Using the machine, you should follow the following basic measures to avoid electric shock, injuries, or damages caused by fire.

- To ensure personal safety, please turn off the main power switch after you have completed your work. Always unplug the power cord when the machine is not in use for a longer time.
- You must use approved and recommended original parts. Otherwise, this will lead to consequences and the warranty will void.
- Machine failures must only be repaired by the manufacturer or an authorized service partner. Do not repair the product on your own.
- This product is grounded by a three-wire plug. It must always be plugged into a fitting socket that is grounded as well. The plug must never be changed in any kind or used with a socket without grounding.
- When the soldering iron or soldering station is switched on, the temperature is likely to reach 400 °C. Do not use the station near flammable gases or objects. The emitted heat is very high and can cause serious burns. Never do touch the hot pipe and avoid exposition of heat to the human body.
- Please ensure that the environment is safe for work when turning on the soldering iron. Never leave the station unattended when it is switched on.
- When the soldering iron is in work, never install a new nozzle while it is working or still hot. The heat pipe and nozzle must have time to cool down after being switched off. After the parts had time to cool down, another nozzle may be installed.
- If you want to box the station after use, let it cool down first.
- Do not use the soldering iron outside. Never try to clear the residual flux of the working surface with the soldering iron. This will cause serious damage to the iron.
- The machine will produce smoke during operation. Please be sure that the piece where it is operated is properly ventilated.



Warning!

- If the supply cord is damaged, it has to be replaced with a new electricity cable; this work is only allowed to be done by a qualified technician.
- This tool must be placed on its stand when it is not in use.
- Be careful when using the appliance in places where there are combustible materials; do not apply the station to the same place for a long time.
- Be aware that heat may be conducted to combustible materials that are out of sight. Never leave the device unattended when it is switched on.
- This device is not intended for use by people (including children) with reduced physical, sensory or mental capabilities or lack of experience or knowledge. Unless they are supervised or have been instructed regarding the use of the device by a person responsible for their safety, they are not allowed to work with the station.



Maintenance and use of the tips

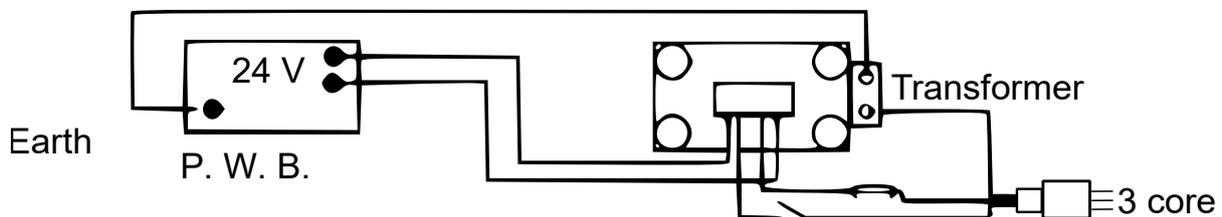
Tip temperature	High soldering temperatures can degrade the tip. Use the lowest possible soldering temperature. The excellent thermal recovery characteristics ensure effective soldering at low temperatures. This protects the soldered items from thermal damage, too.
Cleaning	As oxides and carbides from the solder and flux can form impurities on the tip, clean the tip regularly with a cleaning sponge. These impurities can lead to defective joints or reduce the tips heat conductivity. When using the soldering iron continuously, be sure to loosen the tip and remove all oxides at least once a week. This helps to prevent seizures and reduction of the tip temperature.
When not in use	Never leave the soldering iron rest at a high temperature for longer periods of time, as the solder plating of the tip will be covered with oxide, which can greatly reduce the thermal conductivity of the tip.
After use	Clean the tip and coat it with fresh solder.

- When the soldering iron is used for the first time, you should pay attention to the monitor to see the temperature. Wait until the temperature is able to melt a tin wire. Put a thin layer of tin on the gold-plated part of the iron tip and then increase the temperature to the required height. Keep in mind that the iron tip needs protection by a thin layer of tin if you want to use it for a longer period of time to be able to achieve an optimal soldering function.
- When it comes to a thin layer of oxide on the surface of the iron tip, this might result in incorrect low temperature indication. It might become unable to melt tin although the heating elements of the station have a high temperature. If this happens, do not increase the temperature without knowing if the iron tip is oxidised. Please turn the power off and clean the iron tip with a sponge. If this does not help, wait until the temperature of the iron has dropped to room temperature. Then you can gently clean off the oxide with sandpaper. After this, repeat the process explained firstly.
- Please pay attention when you put the iron back into its holder at a high temperature. In this case, you should adjust the temperature button below 250 °C. If the idle time should exceed 20 min, please turn the power supply off. Otherwise, the soldering iron would have a too high temperature for too long. The heat will generate an accumulated temperature which leads to accelerated ageing of the heating element and other components. Furthermore, this will lead to faster oxidation weakening the soldering efficiency. It also might lead to plastic melting off the handle or heating elements having a short circuit.
- If the tip deformation or erosions becomes too heavy, please replace the tip with a new one.
- While soldering, do not apply too much pressure on the iron tips. More pressure will not increase the thermal conductivity and will result in damages of the iron tip.

Technical data

Power (W)	40
Intake voltage (V)	220 (AC)
Frequency (Hz)	50
Output voltage (V)	24 (AC)
Temperature range (°C)	250–480
Temperature stability (°C)	± 2 (static)
Temperature range of iron (°C)	100–480
Heating element voltage (V)	24 (AC) ± 10 %
Frequency (Hz)	50
Ground resistance tip (Ω)	< 2
Ground voltage tip (mV)	< 2
Weight (kg)	1.71
Operating temperature (°C)	0–40
Storage temperature (°C)	-20–80
Storage humidity (%)	35–45
Display type	LED

Wiring diagram



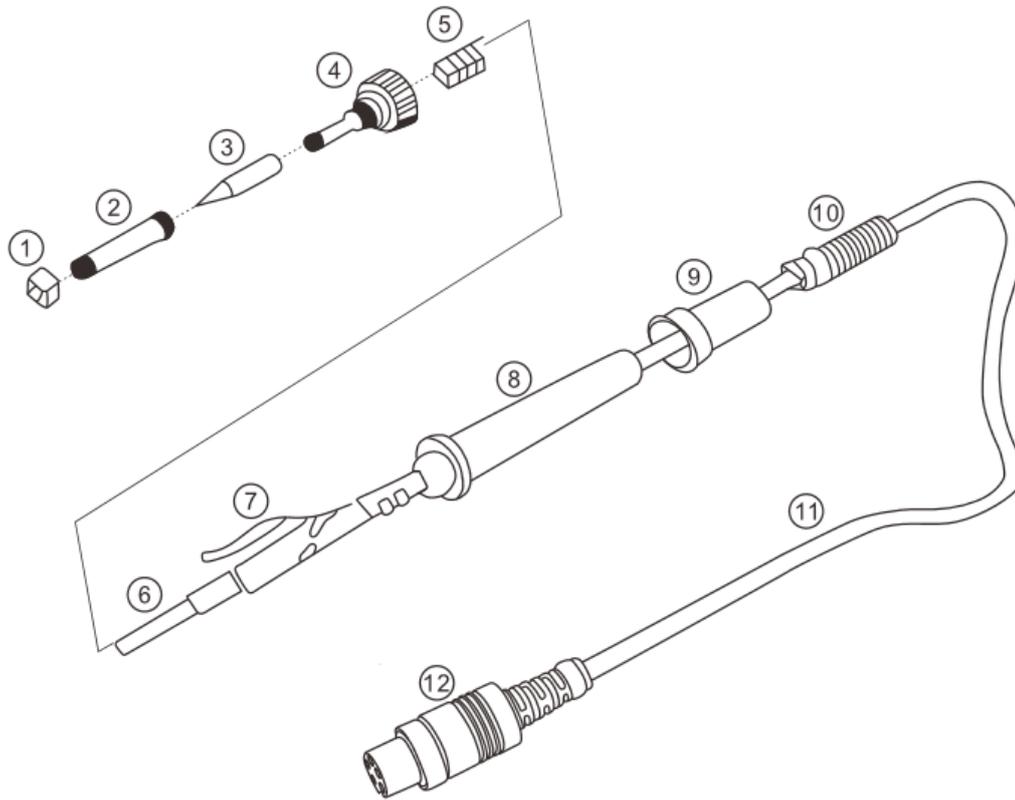
Replacement of the soldering tip

- Switch off the station and pull the plug of the soldering iron **(12)** out of the station.
- Loosen the ring nut **(1)** by turning it counter-clockwise.
- Pull off the soldering tip housing **(2)** and the soldering tip **(3)**. Now you can insert the new soldering tip.

Replacement of the heating element

- Follow the steps to replace the soldering tip.
- Now turn the plastic cap **(4)** counter-clockwise to detach it from the handpiece. You can now pull the heating element **(6)** with the circuit board **(7)** out of the handle.
- Pay attention to the earthing spring **(5)**, the connection must not be damaged.
- The heating element must be de-soldered and replaced with a new heating element. Please make a note of how the heating element was soldered to the circuit board in order to solder the new heating element on correctly.

Components



Nº	Name	Nº	Name
1	Nut	7	Circuit board
2	Steel tube	8	Handle cover
3	Soldering tip	9	Hand protection
4	Plastic cap	10	Spool
5	Earthing spring	11	Handle cable
6	Heating core	12	Connection plug

Compatible tips (6.5 mm diameter)

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

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiITec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiITec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities or the store where you purchased the article.

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