

JBC

www.jbctools.com

INSTRUCTION MANUAL



LCS

Lite Precision Soldering Station

This manual corresponds to the following references:

LC-1SA 120 V - N. America, Taiwan

LC-2SA 230 V - Europe

LC-2SIA 230 V - India

The following items are included:

Packing List



LC Control Unit 1 unit



Precision Purpose Handle 1 unit
Ref. T210-A



Power Cord 1 unit
Ref. 0023715 120 V - N. America, Taiwan
Ref. 0023714 230 V - Europe
Ref. 0024922 230 V - India



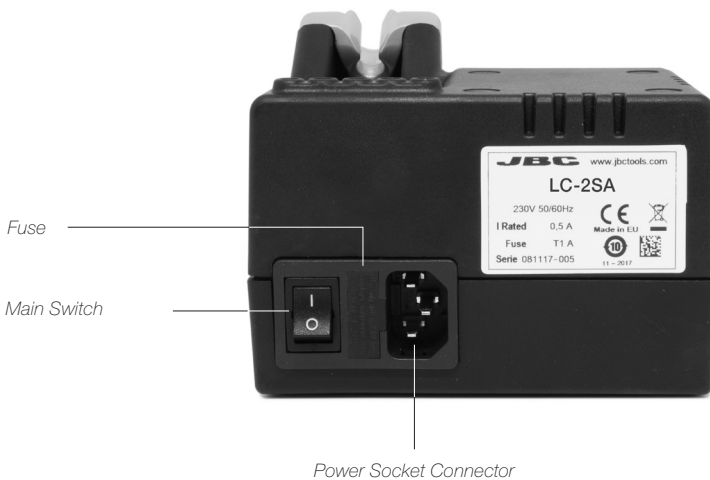
Sponge 1 unit
Ref. S2027



Manual 1 unit
Ref. 0021006

Features and Connections

Control Unit

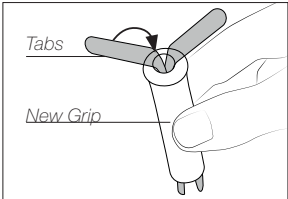


Changing Grips*

Replace the soft foam grips easily using slip-on tabs. **Note:** Choose the correct grip depending on your handle model.

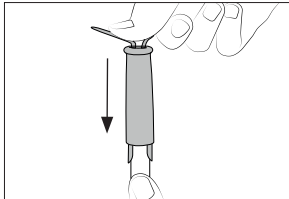
Handles	Green grips	Blue grips	Black grips
T210, T210P, T210N	T8658	T3310	T3311
T245, T245G, T245P	T6057	T1528	T1530

1. Inserting Tabs



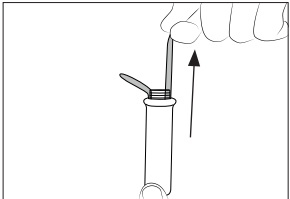
Put the slide-on tabs into the new grip.

2. Inserting Handle



Push the grip with the tabs onto the handle.

3. Removing Tabs




Hold the grip and pull the tab. Use pliers if necessary.

Replacing Sealing Plugs

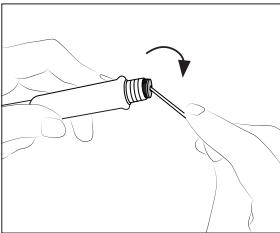
The sealing plug prevents undesirable flux vapors or particles from entering the tool. Its usage is highly recommended for intensive applications when soldering is exposed to FOD environments or for applications where the soldering iron works close to a vertical position.

Note: Choose the correct sealing plug depending on your handle model.

 Before replacing the sealing plug, unplug the power supply and make sure the device is not hot.

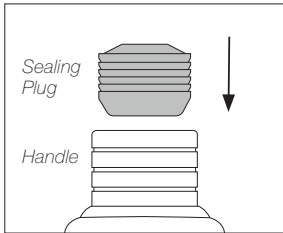
Handles	Sealing Plug
T210	OB1000
T245, T470	OB2000

1. Removing Sealing Plug



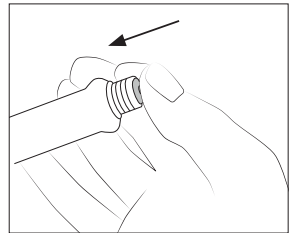
Enter a small shaft or screw-driver, not deeper than 8mm, and lift and pull the sealing plug. Never use a cartridge to do this operation.

2. Mounting Position



Note: The chamfered side has to be positioned towards the handle.

3. Inserting Sealing Plug



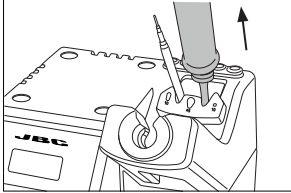
Push the sealing plug inside the handle until the sealing plug and handle edges are aligned.

* not included, sold separately

Quick Tip Changer

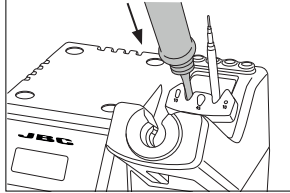
Save time and change cartridges safely without switching the station off.

1. Removing



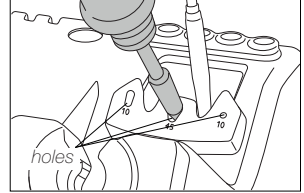
Place the handpiece in the extractor and pull to remove the cartridge.

2. Inserting



Place the handpiece on top of the new cartridge and press down slightly.

3. Fixing



Depending on the shape of the tip, use one of the holes for fixing the cartridge.

***Important:** It is essential to insert the cartridges as far as the mark for a proper connection.



Compatible Cartridges

LCS stations work with C245 cartridges and T210 handles.

Find the model that best suits your soldering needs in www.jbctools.com



Conical



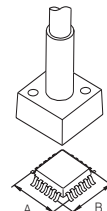
Chisel



Conical
Bent



Bevel

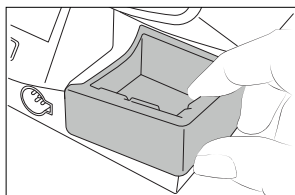


Special
Models

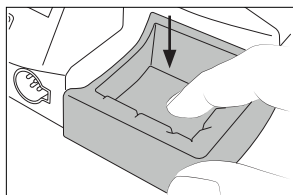
Accessories*

Wiper for LC Control Units Ref.CL1170

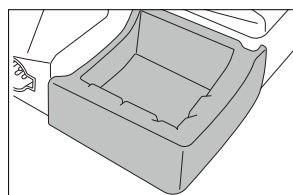
Placing the Wiper



1. Take out the worn wiper and insert the new one.



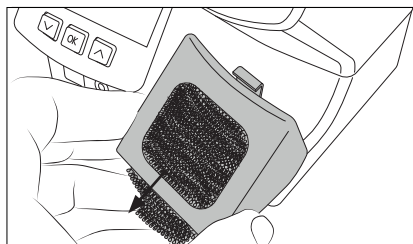
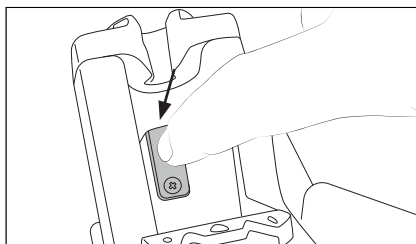
2. Press the wiper down to center it in place.



3. Make sure that the wiper is inserted correctly.

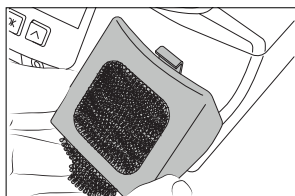
Dome for LC Control Units Ref. CL0768

Removing the Dome

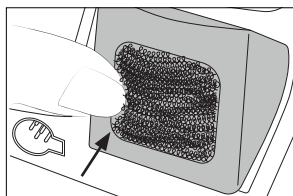


To remove the dome press the back tab and pull the dome out .

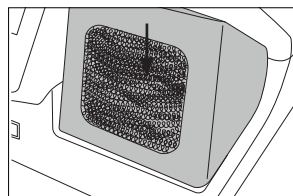
Placing the Dome



1. Take the dome and the worn brass wool out. Put the new brass wool in the dome.



2. Insert the dome with the new brass wool in place.



3. Press the dome down to fix it in place. Make sure that the dome is inserted correctly.

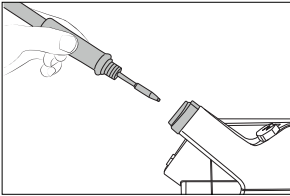
*Not included, sold separately.

Operation

The JBC Exclusive Heating System

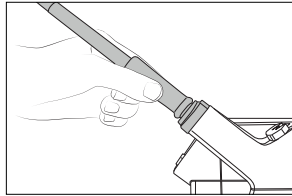
This revolutionary technology can recover tip temperature extremely quickly. It allows the user to work at a lower temperature. As a result, tip life increases by 5.

1. Work



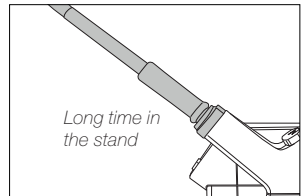
When the tool is lifted from the stand the tip will heat up to the selected temperature.

2. Sleep



When the tool is in the stand, the temperature falls to the preset sleep temperature.

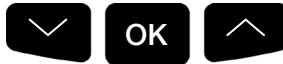
3. Hibernation



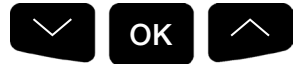
After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



- Change temperature (from 90 to 450°C)
- Select temperature levels
- Fix one temperature



- Change Sleep temperature
- Set Sleep delay (from 0 to 9 min or no Sleep)

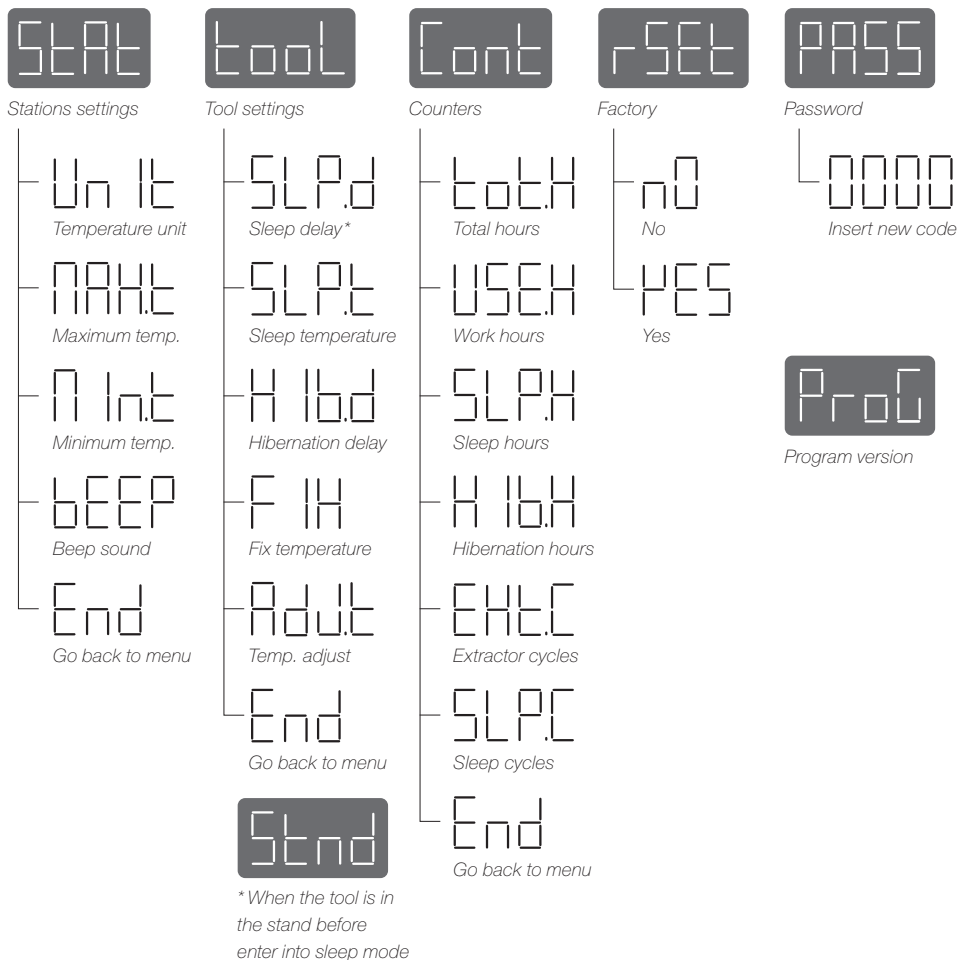


- Change Hibernation delay (from 0 to 60min or no Hibernation)

Control Process

Menu

- By pressing **OK** during three seconds will enter in **Program**.
- Moves by the options with the up and down keys.







Troubleshooting

Station troubleshooting available on the product page at www.jbctools.com

Parameters

Be careful when using these parameters. They can reduce tip life if not used properly. Please follow the recommended guidelines:

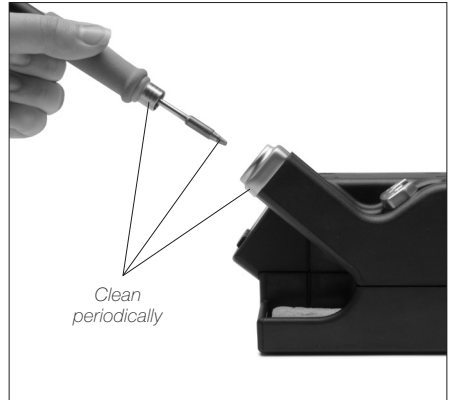
Parameter description	Recommendations	Warnings
Temperature unit Celsius (°C) or Fahrenheit (°F)	N/a	
Maximum temperature Set the maximum temperature to work with. Max. temp by default is 400°C (750°F). This is considered high enough to work with most lead-free applications.	The station temperature range is 90-450°C (190-840°F). Change the temperature limits when working with less common applications such as low / high melting point soldering (HMP) or plastics (e. g. riveting).	 Working with temperatures over 400°C (750°F) can damage the PCB and its components. Even in short time periods of tip contact with the soldering joint, the flux may not work properly and could reduce tip life. If the solder joint requires more power (e.g. multilayered or high dissipation boards), JBC recommends using other aids like preheaters.
Minimum temperature Set the minimum temperature to work with. Min. temp. by default is 200°C (392°F). This is considered to be a proper starting point for leaded applications.		
Beep Enable/disable the beep sound of the keypad.	N/a	N/a
Sleep delay Set the time that the tool will remain at the selected temperature when in the stand before entering sleep mode. The tip temperature will then drop to the Sleep temperature.	Because our tools reach the working temperature from the Sleep mode in a few seconds, this parameter is preset to 0 min. Once the tool is returned to the stand the temperature will drop to the sleep temperature, extending tip life and avoiding oxidation. Retinning the tip before placing the tool in the stand will protect the tip and extend its life.	 Setting these parameters to higher values will unnecessarily accelerate oxidation and shorten tip life especially when working with temperatures up to 450°C (840°F).
Sleep temperature This is the set temperature the tip reaches when returned to the stand.	The sleep temperatures are set to achieve a balance between preventing oxidation and reaching the working temperature in a few seconds.	

Parameter description	Recommendations	Warnings
Hibernation Delay Set the time the tool will remain at Sleep temperature before entering the Hibernation mode. The power supply is cut off and the tip remains at room temperature.	Protects the tip from oxidation during long periods of inactivity while the tool is in the stand. Retinning the tip before placing the tool in the stand helps prevent oxidation and extends the life of the tip.	 Increasing the default value will accelerate oxidation and shorten the tip life.
Fix one temperature Fix a value within the temperature range of the station (90 - 450°C / 190 - 840°F).	Ideal for soldering more than one component at a specific temperature. The station will reject any attempt to change the temperature.	N/a
Temp Adjustment It provides a more precise adjustment between the selected temperature and the actual one.	Set values within $\pm 50^{\circ}\text{C}$ ($\pm 90^{\circ}\text{F}$) to achieve zero error. JBC strongly recommends the use of TID-A or TIA-A Thermometers to obtain precise readings.	 When you change the cartridge type, the parameter should be reset to 0°C/F or to the value needed for this cartridge. E.g. If a correction of +20°C (+36°F) is set for the C245966 (thick type) and you change the cartridge for a C245030 (which is thinner) without resetting, they would be working at a temperature of +20°C (+36°F) lower for the C245030.
Change password Change the default security password number (0105).	The password must be entered every time a parameter is changed.	N/a

Maintenance

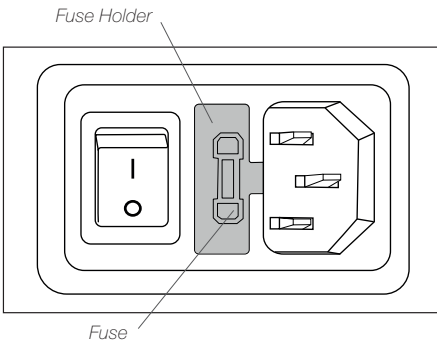
Before carrying out maintenance, always allow the equipment to cool.

- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool's status.
- Maintain the tip surface clean and tinned prior to storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.

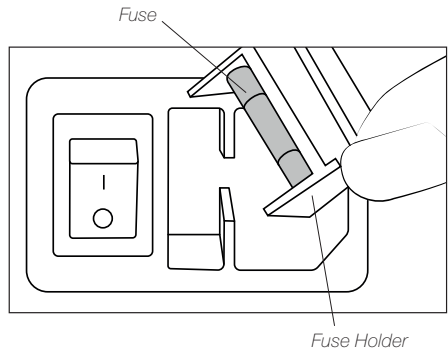


- Periodically check all cables and tubes.
- Replace a blown fuse as follows:

1. Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



2. Press the new fuse into the fuse holder and replace it in the station.



- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.

Safety



It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.

- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause a fire.
- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Do not work on electrically live parts.
- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip or nozzle, the metal part of the tool and the stand may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflammable products to ignite.
- Avoid flux coming into contact with skin or eyes to prevent irritation.
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.
- Utmost care must be taken with liquid tin waste which can cause burns.
- This appliance can be used by children over the age of eight and also persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning the use of the appliance and understand the hazards involved. Children must not play with the appliance.
- Maintenance must not be carried out by children unless supervised.

有害物质含量表

产品中有害物质的名称及含量

部件名称	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
烙铁头	○	○	○	○	○	○
手柄	○	○	○	○	○	○
电源线	○	○	○	○	○	○
主机	○	○	○	○	○	○
电源插座	○	○	○	○	○	○
保险丝	○	○	○	○	○	○
主开关	○	○	○	○	○	○
电位连接	X	○	○	○	○	○
变压器	○	○	○	○	○	○
线路板	X	○	○	○	○	○
○ 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。 X 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。						

Notes

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Notes

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Specifications

LCS

Lite Precision Soldering Station

LC-1SA 120V 50/60Hz. Input fuse: 2A. Output: 23.5V

LC-2SA 230V 50/60Hz. Input fuse: 1A. Output: 23.5V

LC-2SIA 230V 50/60Hz. Input fuse: 1A. Output: 23.5V

- | | |
|--------------------------------------|---------------------------------|
| - Output Peak Power: | 40 W |
| - Selectable Temperature: | 90 - 450 °C / 190 - 840 °F |
| - Idle Temp. Stability (still air): | ± 1.5 °C / ± 3 °F |
| - Tip to ground resistance: | <2 ohms |
| - Tip to ground voltage: | <2 mV RMS |
| - Ambient operating temp: | 10 - 50 °C / 50 - 120 °F |
| - Total Net Weight: | 1.98 kg / 4.37 lb |
| - Total Package Dimensions / Weight: | 220 x 213 x 160 mm / 2.66 kg |
| (L x W x H) | 8.66 x 8.39 x 6.30 in / 5.86 lb |

Complies with CE standards

ESD Safe

JBC

Warranty

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour.

Warranty does not cover product wear or misuse.

In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

Get 1 extra year JBC warranty by registering here:

<https://www.jbctools.com/productregistration/>

within 30 days of purchase.



This product should not be thrown in the garbage.

In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.



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