

# JBC

[www.jbctools.com](http://www.jbctools.com)

## INSTRUCTION MANUAL



## Compact Desoldering Station with Electric Pump

Ref. CS-E

# Packing List

The following items are included:



**CSV Control Unit** ..... 1 unit  
Ref. CSV-1E (120V)  
CSV-2E (230V)  
CSV-9E (100V)



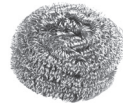
**Micro Desoldering Iron** ..... 1 unit  
Ref. DS360-A  
*C360004 already inserted*



**Power Cord** .....1 unit  
Ref. 0023714 (100V)  
0023715 (230V)  
0024092 (100V)



**Sponge** ..... 1 unit  
Ref. S0354



**Brass Wool** .....1 unit  
Ref. CL6210

## DS360-A Accessories

Ref. 0010259



**Tips** ..... 10 units  
Ref. C360002 (x5)  
C360004 (x5)



**Union Flanges** ..... 2 units  
Ref. 0011356



**Filter** ..... 2 units  
Ref. 0008473



**Cleaning brush** ..... 1 unit  
Ref. 0008297



**Solder Collector** ..... 2 units  
Ref. 0008467



**Cleaning Rods** ..... 1 unit  
Ref. 0008466



**Electric Desoldering Module** ..... 1 unit  
Ref. MS-A



**Filter Box** ..... 1 unit  
Ref. 0005966  
*It contains 50 filters*



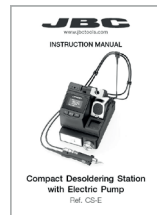
**Cotton Filter** ..... 1 unit  
Ref. 0781046  
*It contains 10 filters*



**Suction Filter** ..... 1 unit  
Ref. 0821830

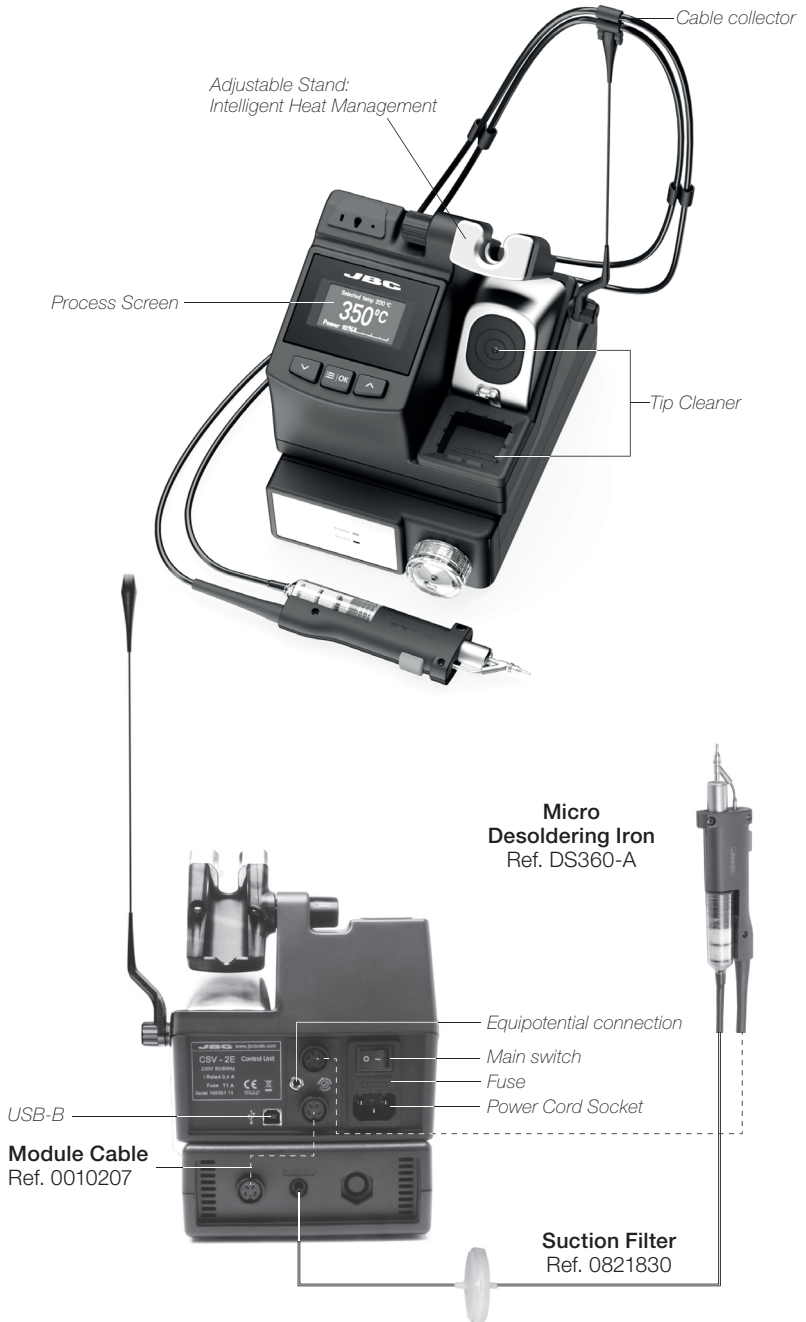


**Module Cable** ..... 1 unit  
Ref. 0010207



**Manual** ..... 1 unit  
Ref. 0024550

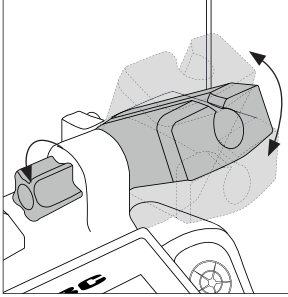
# Features





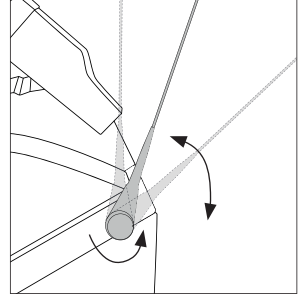
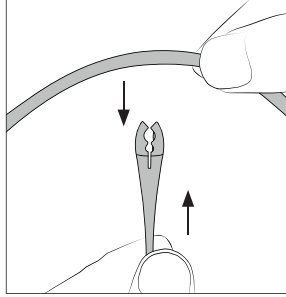
## Adjustable stand

Adjust the tool stand to suit your work position.



## Cable collector (Ref. CC1001)

Place the cable on the collector so that the working area is free of cable.



## Tip Cleaner

Select the option to suit your needs and improve the thermal transfer of the tip.

### Splashguard

Ref. 0017576

*It prevents splashing of solder particles when using the brass wool.*

### Antisplash Membrane

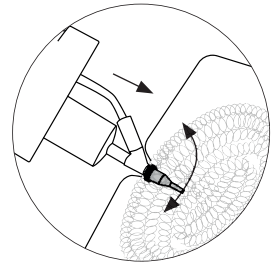
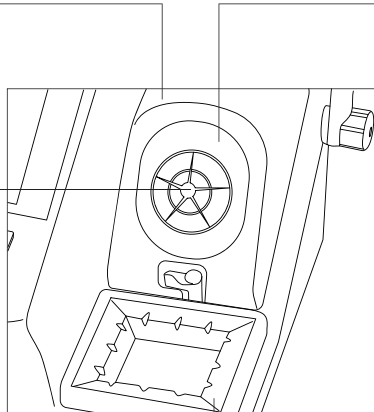
Ref. 0017574

*Prevents splashing to maintain the work area clean.*

### Brass Wool

Ref. CL6210

*Very effective cleaning method. Leaves a small layer of solder on the tip preventing oxidation between cleaning and reflowing.*



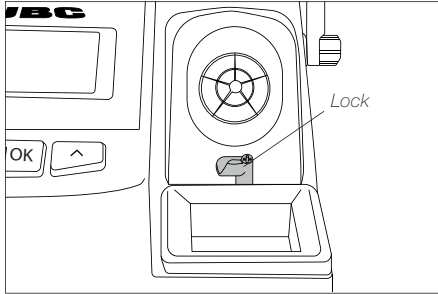
*If the tip is very dirty, JBC recommends first cleaning it with the wiper to remove excess solder.*

### Wiper Ref. CL0160

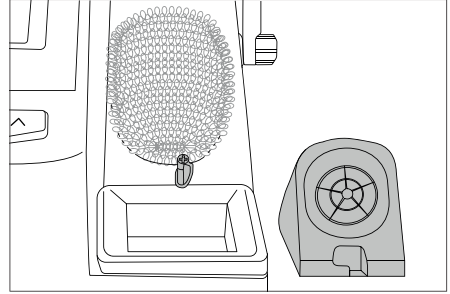
*A temperature resistant receptacle for removing excess solder by gently tapping or wiping.*

## Removing the Splashguard

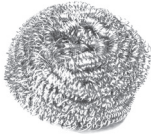
1. Unlock the splashguard.



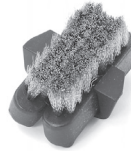
2. Remove it.



More cleaning options (not supplied):



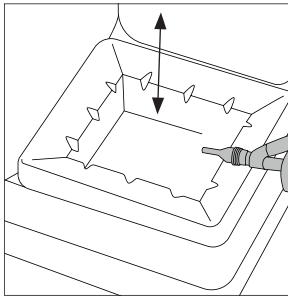
**Inox Wool**  
Ref. CL6205  
Provides a superior cleaning of the tip.



**Metal Brush**  
Ref. CL6220  
When used carefully, it provides a more thorough cleaning.

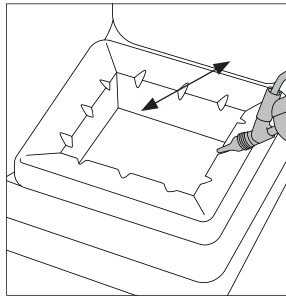
## Wiper

Ref. CL0160



## Tapping:

Tap gently to remove excess solder.

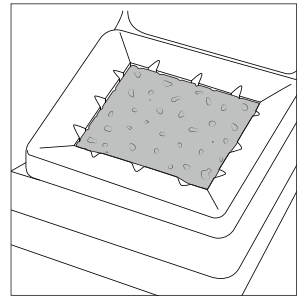


## Wiping:

Use the slots to remove remaining particles.

## Sponge

Ref. S0354

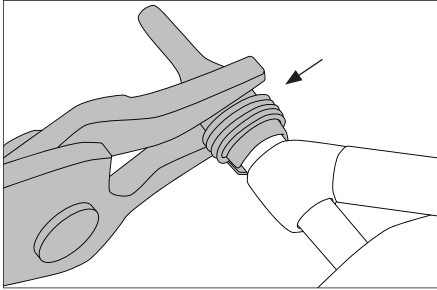


The least harmful cleaning method. Keep the sponge damp with distilled water when working to avoid tip wear.

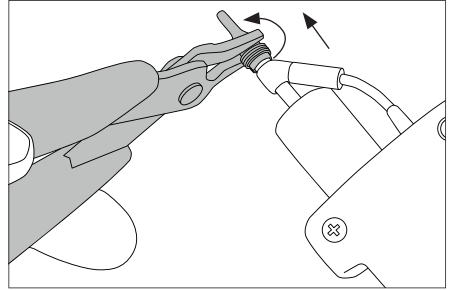
## Changing the Tip

Tip's fasten area.

Do not hold it on the spring clamp.



To remove the tip, use a pair of flat-nosed pliers, twist the tip and pull.

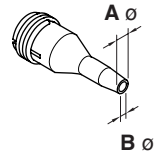


**!** **Important:** This operation should be done while the tip is hot and at a minimum temperature of 250°C, so that any tin left inside is still molten.

## Compatible Tips

The **DS360** uses **C360** tips.

Find the model that best suits your needs in [www.jbctools.com](http://www.jbctools.com)

**C360-001**

$\varnothing A = 1 \text{ mm (0.039 in)}$   
 $\varnothing B = 0.8 \text{ mm (0.031 in)}$   
 $\varnothing \text{ max. pin} = 0.4 \text{ mm (0.016 in)}$

**C360-002**

$\varnothing A = 1.2 \text{ mm (0.047 in)}$   
 $\varnothing B = 0.8 \text{ mm (0.031 in)}$   
 $\varnothing \text{ max. pin} = 0.6 \text{ mm (0.024 in)}$

**C360-003**

$\varnothing A = 1.4 \text{ mm (0.055 in)}$   
 $\varnothing B = 1 \text{ mm (0.039 in)}$   
 $\varnothing \text{ max. pin} = 0.8 \text{ mm (0.031 in)}$

**C360-004**

$\varnothing A = 1.4 \text{ mm (0.055 in)}$   
 $\varnothing B = 1 \text{ mm (0.039 in)}$   
 $\varnothing \text{ max. pin} = 0.8 \text{ mm (0.031 in)}$

**C360-007**

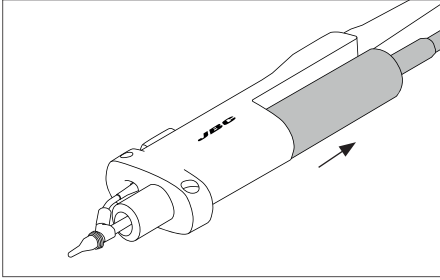
$\varnothing A = 1.9 \text{ mm (0.075 in)}$   
 $\varnothing B = 1.4 \text{ mm (0.055 in)}$   
 $\varnothing \text{ max. pin} = 1.2 \text{ mm (0.047 in)}$

**C360-006**

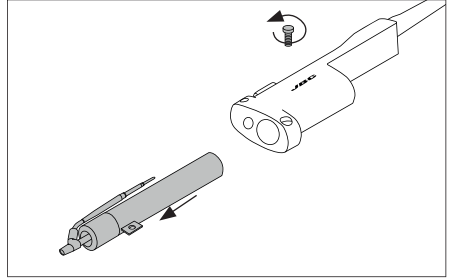
$\varnothing A = 3 \text{ mm (0.118 in)}$   
 $\varnothing B = 1.5 \text{ mm (0.059 in)}$   
 $\varnothing \text{ max. pin} = 1.3 \text{ mm (0.051 in)}$

## Changing the heating element (Ref. DSV-DS)

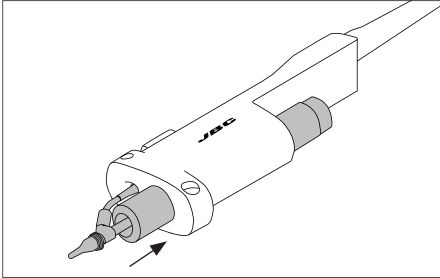
1. Remove the filter before changing the heating element.



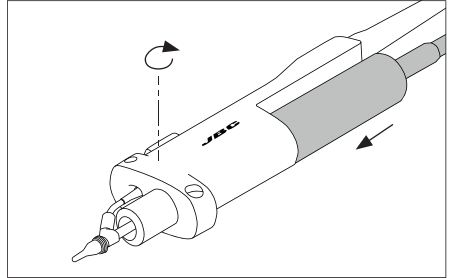
2. Remove the fixing screw and take out the heating element.



3. Insert the new heating element.



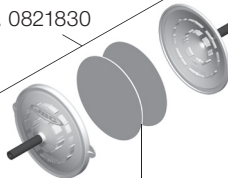
4. Tighten the fixing screw and insert the filter.



## Changing the Pump Filters

**Important:** Do not use sharp pointed objects to open the suction filter.

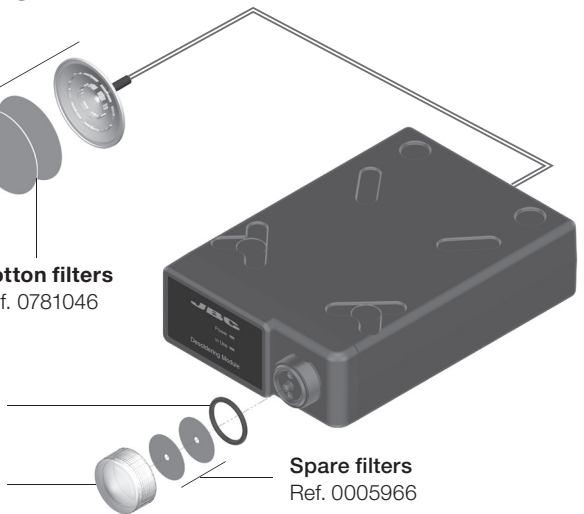
**Suction filter**  
Ref. 0821830



**Cotton filters**  
Ref. 0781046

**O Ring**  
Ref. 0007717

**Filter cover**  
Ref. 0004710



**Spare filters**  
Ref. 0005966

## USB Connector

Download the latest software from our website to improve your soldering station.

### JBC Updater

[www.jbctools.com/software.html](http://www.jbctools.com/software.html)

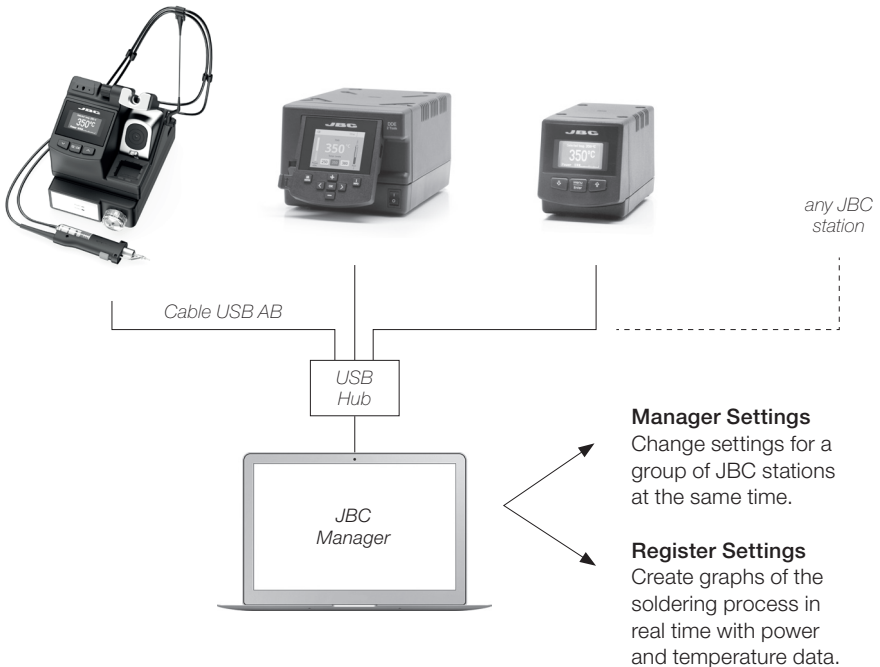
Update the station software via USB connection:



### JBC Manager

[www.jbctools.com/manager.html](http://www.jbctools.com/manager.html)

Manage and monitor as many stations as your PC can handle by using the JBC Manager. You can export data to another PC.

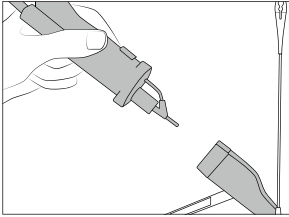


# Operation

## The JBC Exclusive Heating System

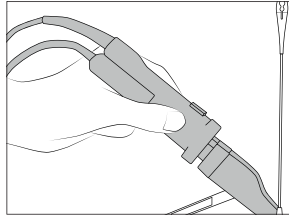
This revolutionary technology is able to recover tip temperature extremely quickly. This allows the user to work at a lower temperature. As a result, tip life increases up to 5.

### 1. Work



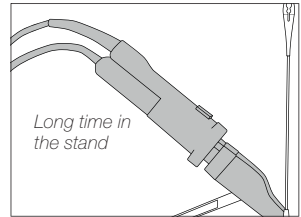
When the tool is lifted from the stand the tip will heat up to the selected temperature.

### 2. Sleep

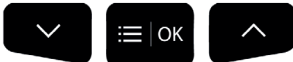
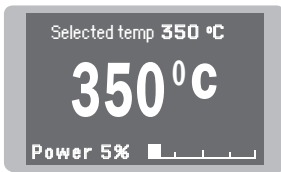


When the tool is in the stand, the temperature falls to the preset sleep temperature.

### 3. Hibernation



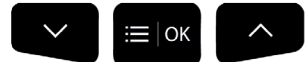
After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



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



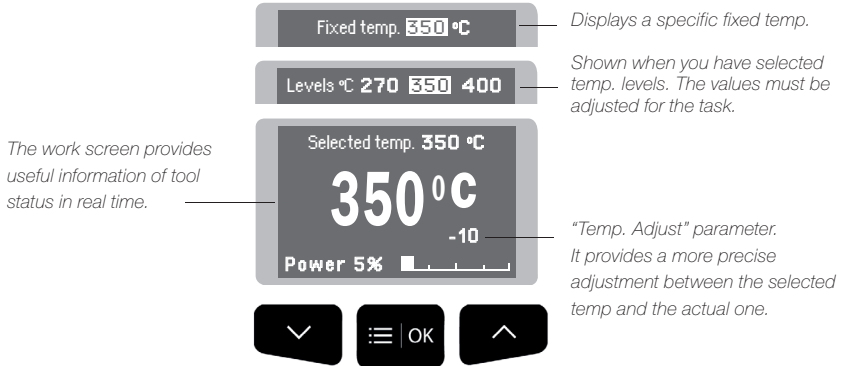
- Change Sleep temperature
- Set Sleep delay (from 0 to 9 min or no Sleep)



- Change Hibernation delay (from 0 to 35 min)

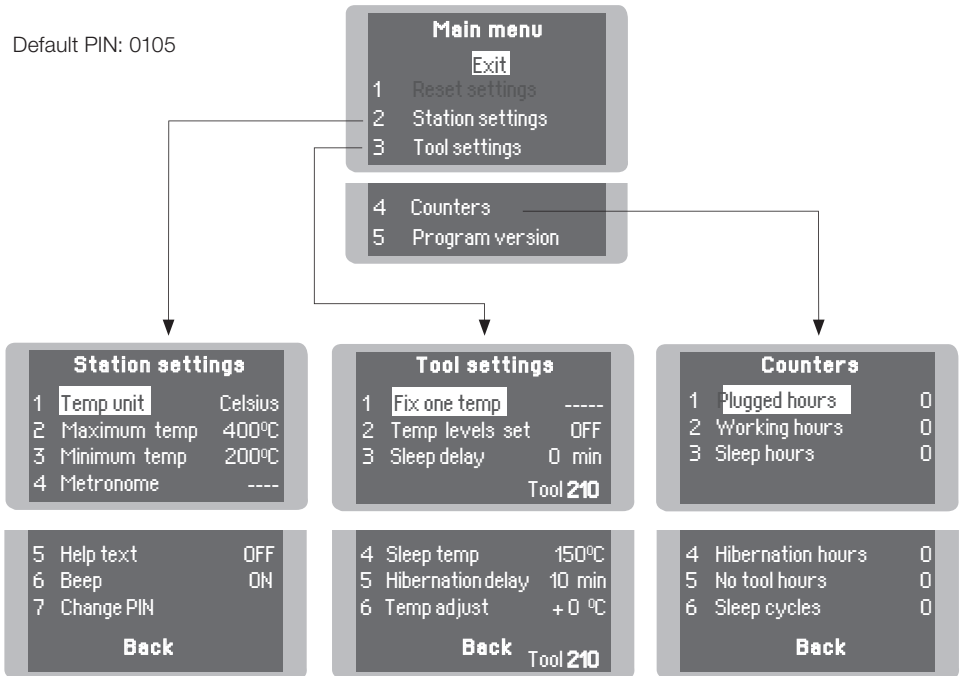
## Control Process

### Work Screen



### Menu Screen

Default PIN: 0105




### Troubleshooting

Station troubleshooting available on the product page at [www.jbctools.com](http://www.jbctools.com)

# Parameters


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

## Station Settings



Parameter description	Recommendations	Warnings
<b>Temperature unit</b> Celsius (°C) or Fahrenheit (°F)	N/a	
<b>Maximum temperature</b> 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 180-450°C (356-840°F). Change the temperature limits when working with less common applications such as low / high melting point soldering (HMP) or plastics (e. g. riveting).	 In most cases, 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 seriously reduce tip life. If the solder joint requires more power (e.g. multilayered or high dissipation boards), JBC strongly recommends using other aids like preheaters.
<b>Minimum temperature</b> 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.		
<b>Metronome</b> This activates a beep sound. Frequencies vary from 1 to 50 seconds.	Useful for setting a work rate in repetitive jobs. The beep lets you know the length of time the tip must be in contact with the soldering joint.	N/a
<b>Help text</b> Activate this parameter to receive info from the system.	N/a	N/a
<b>Beep</b> Enable/disable the beep sound of the keypad.	N/a	N/a
<b>Change pin</b> Change the default security PIN number (0105).	The PIN must be entered every time a parameter is changed.	N/a



## Tool Settings

Parameter description	Recommendations	Warnings
<p><b>Fix one temperature</b> Fix a value within the temperature range of the station (180-450°C / 3560-840°F).</p>	<p>Ideal for soldering more than one component at a specific temperature. The station will reject any attempt to change the temperature.</p>	<p>N/a</p>
<p><b>Temperature levels set</b> Similar to “Fix one temp” parameter. In this case, the user can set up to 3 values for different power requirements.</p>	<p>This allows a quick change between 3 different temperatures. Set them according to the allowed values for your soldering applications.</p>	<p>N/a</p>
<p><b>Sleep delay</b> 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.</p>	<p>Because our tools reach the working temperature from the default Sleep mode in only a few seconds, this parameter is preset to 0 min. Once the tool is returned to the stand the temperature will automatically 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.</p>	<div style="background-color: #e0e0e0; padding: 10px;"> <p> 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).</p> </div>
<p><b>Sleep temperature</b> This is the set temperature the tip reaches when returned to the stand.</p>	<p>The sleep temperatures are set to achieve a balance between preventing oxidation and reaching the working temperature in a few seconds.</p>	

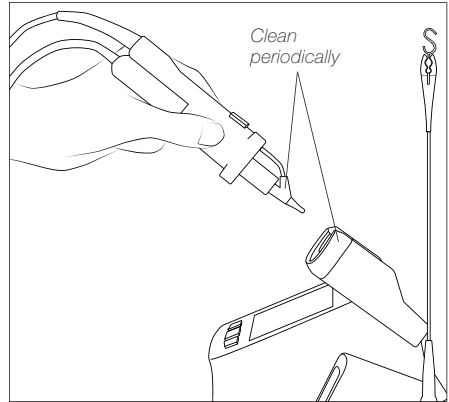
## Tool Settings

Parameter description	Recommendations	Warnings
<p><b>Hibernation Delay</b> Set the time the tool will remain at Sleep temperature before entering the Hibernation mode. At this time, the power supply is cut off and the tip remains at room temperature.</p>	<p>This function completely protects the tip from oxidation during long periods of inactivity while the tool is in the stand. Retinuing the tip before placing the tool in the stand also helps prevent oxidation and extends the life of the tip.</p>	<p> Increasing the default value will accelerate oxidation and shorten the tip life.</p>
<p><b>Temp Adjustment</b> It provides a more precise adjustment between the selected temperature and the actual one.</p>	<p>Set values within <math>\pm 50^{\circ}\text{C}</math> (<math>\pm 90^{\circ}\text{F}</math>) to achieve zero error. JBC strongly recommends the use of TID-A or TIA-A Thermometers to obtain precise readings.</p>	<p> When the user changes the cartridge type, the parameter should be reset to <math>0^{\circ}\text{C}/\text{F}</math> or to the value needed for this cartridge. E.g. If a correction of <math>+20^{\circ}\text{C}</math> (<math>+36^{\circ}\text{F}</math>) is set for the C245966 (thick type) and then the user changes the cartridge for a C245030 (which is thinner) without resetting, they would be working at a temperature of <math>+20^{\circ}\text{C}</math> (<math>+36^{\circ}\text{F}</math>) lower for the C245030 which does not need any temperature adjustment.</p>

## Maintenance

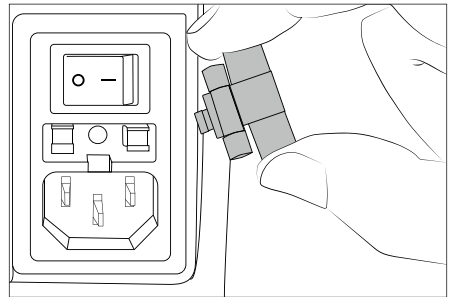
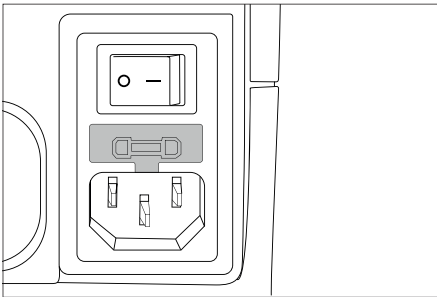
Before carrying out maintenance, always allow the equipment to cool.

- 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 status.
- Maintain 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.** Insert the new fuse into the fuse holder and return it to the station.



- Replace any defective or damaged pieces. Only use original JBC spare parts.
- 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 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, 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 the contact of flux 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 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。



## Specifications

**CS-1E** 120V 50/60Hz. Input fuse: 2A. Output: 23,5V. Control Unit model: **CSV-1E**  
**CS-2E** 230V 50/60Hz. Input fuse: 1A. Output: 23,5V. Control Unit model: **CSV-2E**  
**CS-9E** 100V 50/60Hz. Input fuse: 2A. Output: 23,5V. Control Unit model: **CSV-9E**

- Output Peak Power CD-BE: 40W
- Temperature Range: 180 - 450 °C (360 - 840 °F)
- Idle Temp. Stability (still air):  $\pm 1.5^{\circ}\text{C}$  ( $\pm 3^{\circ}\text{F}$ ) / Meets and exceed IPC J-STD-001
- Temp accuracy:  $\pm 3\%$  (using reference cartridge)
- Temp adjustment:  $\pm 50^{\circ}\text{C}$  ( $\pm 90^{\circ}\text{F}$ ) Through station menu setting
- Tip to ground voltage: Meets and exceed
- Tip to ground resistance: ANSI/ESD S20.20-2014 IPC J-STD-001F
- USB connector station-PC
- Ambient operating temp: 10 - 50 °C (50 - 122 °F)
- Control Unit Weight: 4 Kg (8.82 lb)
- Control Unit Dimensions: 150 x 175 x 145 mm (5.9 x 6.9 x 5.7 in)

### **MS-A**

- Weight: 1,2 kg (2.6 lb)
- Dimensions: 145 x 55 x 225 mm (5.7 x 2.2 x 8.9 in)
- Vacuum: 75% / 570 mmHg / 22.4 inHg
- Flow rate: 9 SLPM
  
- Total Package: 495 x 295 x 255 mm / 5.47 kg  
19.5 x 11.6 x 10 in / 12.06 lb

Complies with CE standards.  
ESD protected housing.

# JBC

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## 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.**

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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.



[www.jbctools.com](http://www.jbctools.com)

0024550-0720