

# JBC

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



## Compact Soldering Station

Ref. CD-BE

## Packing List

The following items should be included:

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



**General Purpose Handle** ..... 1 unit  
Ref. T245-A



**Power Cord** ..... 1 unit  
Ref. 0009417 (100V/120V)  
0009401 (230V)



**Cartridges** ..... 2 units  
Ref. C245903 (x1)  
C245741 (x1)



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



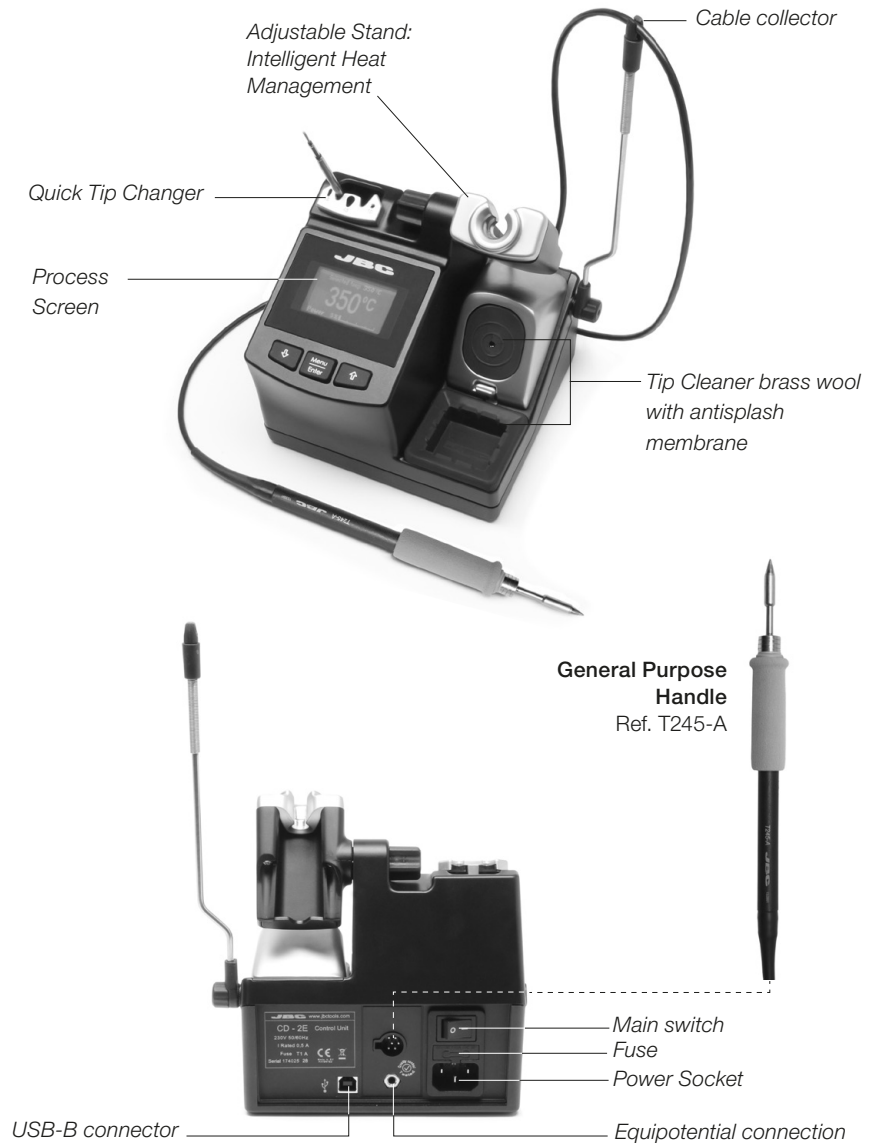
**Sponge** ..... 1 unit  
Ref. S0354



**Manual** ..... 1 unit  
Ref. 0017353

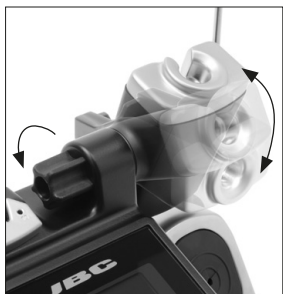


## Features



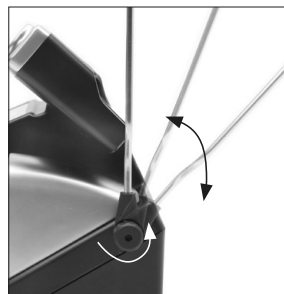
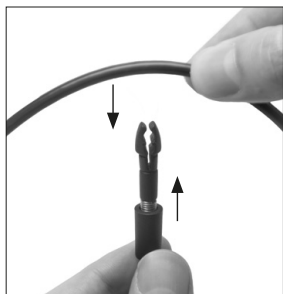
## Adjustable stand

Adjust the tool stand to suit your work position.



## Cable collector (Ref. CC3702)

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.

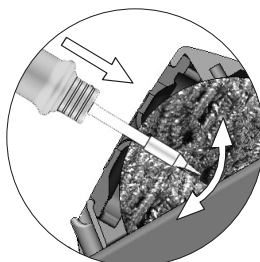
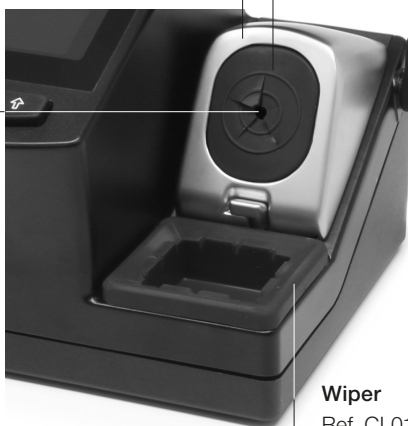
### Splashguard

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 rewetting.*



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

### Wiper

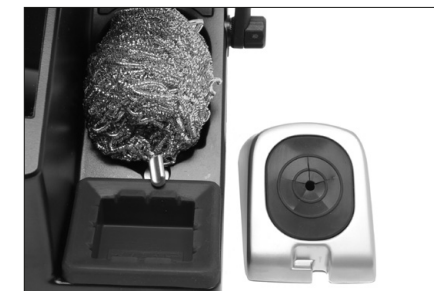
Ref. CL0160  
*A temperature resistant receptacle for removing excess solder by gently tapping or wiping.*

Removing the splashguard:

1. Unlock the splashguard.



2. Remove it.



More cleaning options (not supplied):



### Inox Wool

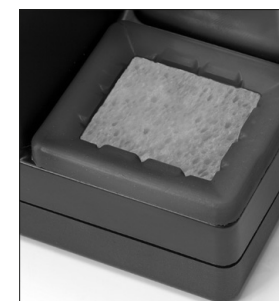
Ref. CL6205  
*Provides a superior cleaning of the tip.*



### Metal Brush

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

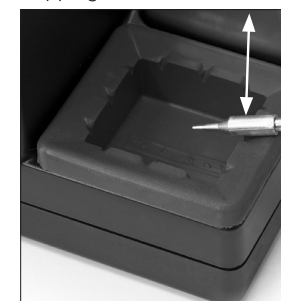
## Wiper



### Sponge

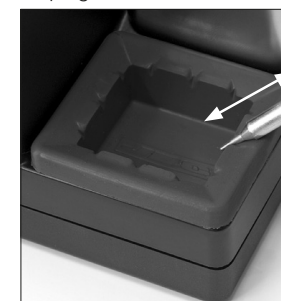
Ref. S0354  
*The least harmful cleaning method. Keep the sponge damp with distilled water when working to avoid tip wear.*

Tapping:



Tap gently to remove excess solder.

Wiping:



Use the slots to remove remaining particles.

## Compatible Handles

### For general use

Works with C245 Cartridge range

#### General Purpose Handle

Ref. T245-A



#### Blue Handle

Ref. T245-PA



#### Non-slip Handle

Ref. T245-B



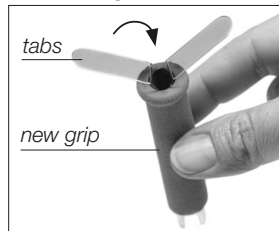
#### Soft Thermal Insulator Handle

Ref. T245-C



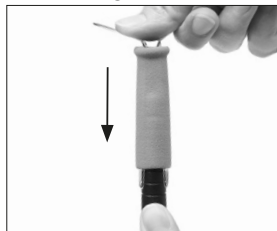
Easily replace the Grips for T245-A and T245-C using the slip-on tabs (Ref. 0016057 Supplied with 4 grips).

#### 1. Inserting tabs



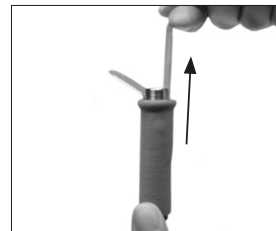
Put the slide-on tabs into the new grip.

#### 2. Inserting handle



Push the grip with the tabs onto the handle.

#### 3. Removing tabs



To remove the tabs, hold the grip and pull. Use a pliers if necessary.

*Note: All models are supplied with a 1.5 m cable.*

### For precision use

Works with C210 Cartridge range

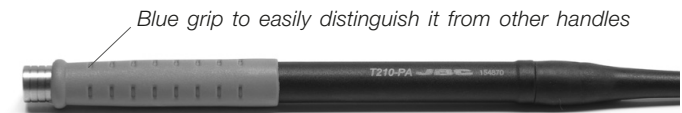
#### Precision Purpose Handle

Ref. T210-A



#### Blue Precision Handle

Ref. T210-PA



### For greater demands

**Important:** Only work with C245 cartridges when used with a CD station.

For intensive soldering jobs requiring continued high thermal power. They feature good thermal insulation and a screw which fixes the cartridge and prevents its rotation.

#### HD Purpose Handle

Ref. T470-A



#### HD Purpose Handle + 3m cable

Ref. T470-SA

#### Tri-lobed HD Handle

Ref. T470-ZA

For better handling of the tool.



#### Thermal Insulator HD Handle

Ref. T470-FA



#### Thermal Insulator HD Handle + 3m cable

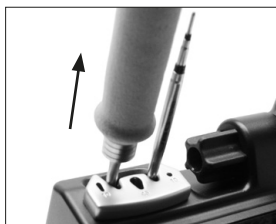
Ref. T470-MA

*Note: All models are supplied with a 1.5 m cable except those specified with 3 m.*

## Quick Tip Changer

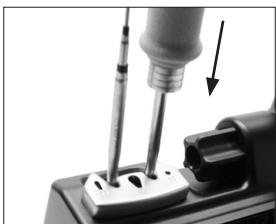
Save time and change cartridges safely without switching the station off.

### 1. Removing



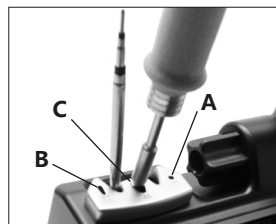
Place the handpiece in the extractor and pull to remove the cartridge.

### 2. Inserting



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

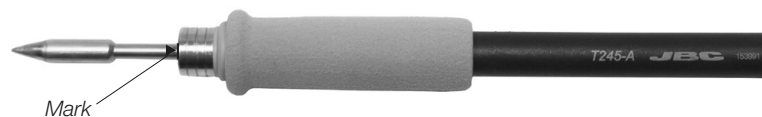
### 3. Fixing



Use the holes for fixing the cartridge\* as follows:  
**A.** For straight C210.  
**B.** For curved C210.  
**C.** For C245.

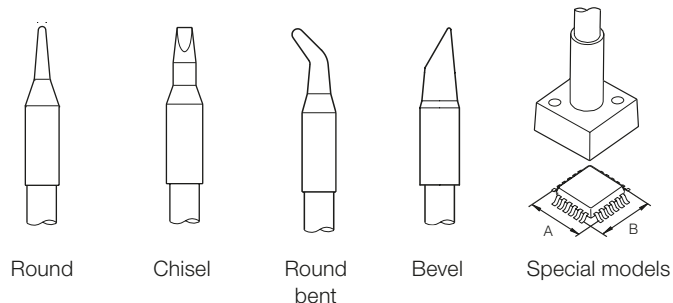
### \*Important

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



### Compatible cartridges

The CD stations work with C245 cartridges and T245/T470 handpieces or C210 cartridges with T210 handpieces. Find the model that best suits your soldering needs in [www.jbctools.com](http://www.jbctools.com)



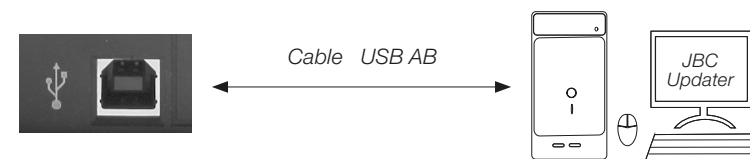
## USB Connector

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)

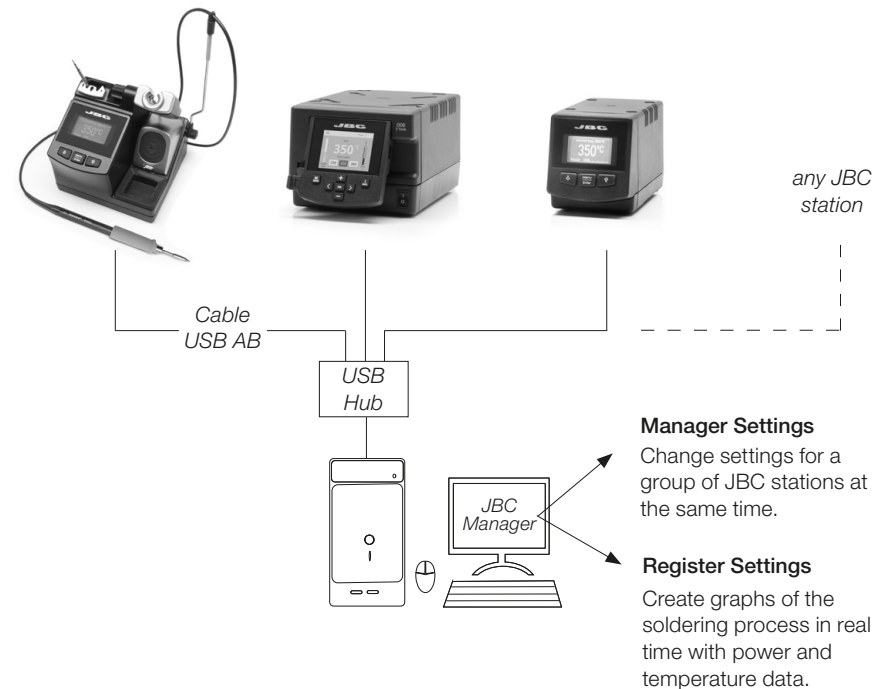
Update the station software via USB connection:



### 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

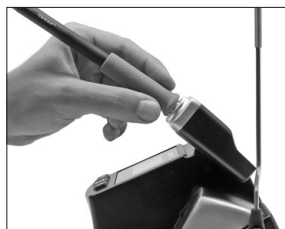
This revolutionary technology is able to recover tip temperature extremely quickly. This allows the user to work at a lower temperature. As a result, tip life increases up to 5.

#### 1. Work



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

#### 2. Sleep

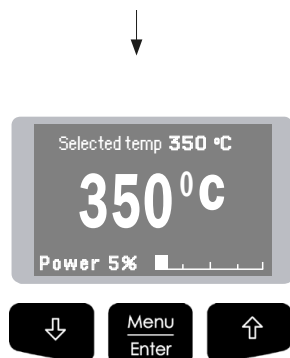


When the tool is in the stand, the temperature falls to the preset sleep temperature.

#### 3. Hibernation



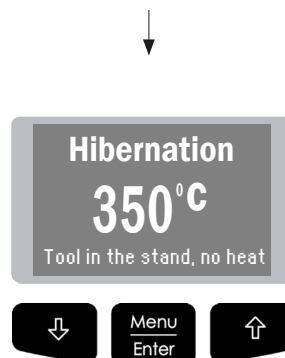
After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



- 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)

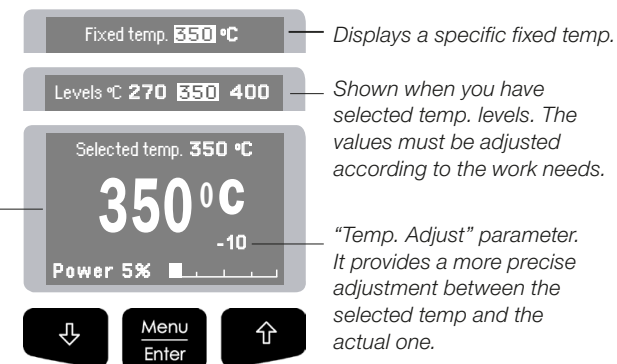


- Change Hibernation delay (from 0 to 35 min)

## Control Process

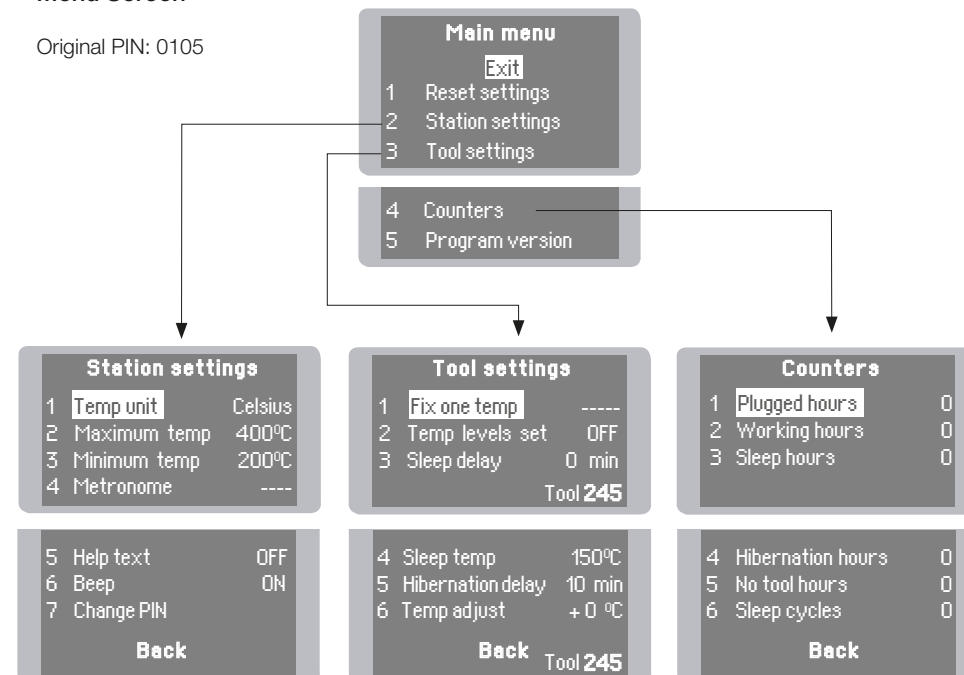
### Work Screen

The work screen provides useful information of tool status in real time.



### Menu Screen

Original PIN: 0105







## 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 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).	 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
<b>Fix one temperature</b> 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
<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.	This allows a quick change between 3 different temperatures. Set them according to the allowed values for your soldering applications.	N/a
<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.	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.	 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).
<b>Sleep temperature</b> 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.	

## 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. Retinning 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>

## Temp Adjustment

It provides a more precise adjustment between the selected temperature and the actual one.

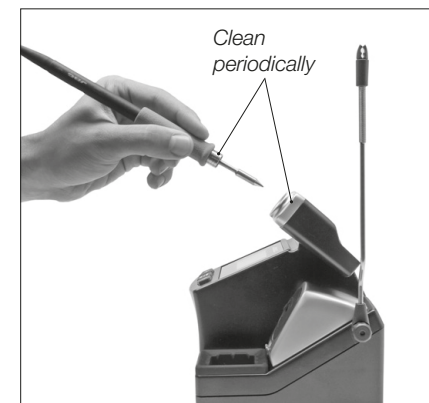
Set values within  $\pm 50^{\circ}\text{C}$  ( $\pm 90^{\circ}\text{F}$ ) to achieve zero error. JBC strongly recommends the use of TID-A or TIA-A Thermometers to obtain precise readings.

⚠ When the user changes the cartridge type, the parameter should be reset to  $0^{\circ}\text{C}/\text{F}$  or to the value needed for this cartridge. E.g. If a correction of  $+20^{\circ}\text{C}$  ( $+36^{\circ}\text{F}$ ) 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  $+20^{\circ}\text{C}$  ( $+36^{\circ}\text{F}$ ) lower for the C245030 which does not need any temperature adjustment.

## Maintenance

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

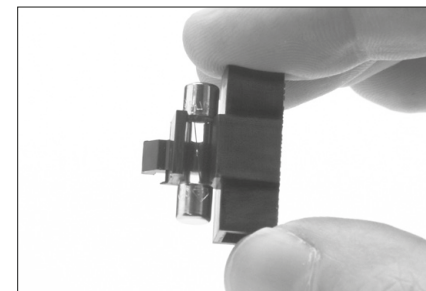
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool status.
- Maintain 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. 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 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.
- Use a "non residue" classified flux and avoid 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 off 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.

## Specifications

- CD-1BE** 120V 50/60Hz. Input fuse: 2A. Output: 23,5V. Control Unit model: **CD-1E**  
**CD-2BE** 230V 50/60Hz. Input fuse: 1A. Output: 23,5V. Control Unit model: **CD-2E**  
**CD-9BE** 100V 50/60Hz. Input fuse: 2A. Output: 23,5V. Control Unit model: **CD-9E**
- Weight: 2.6 Kg (5.7 lb)
  - Dimensions: 150 x 175 x 145 mm
  - Output Peak Power CD-BE: 130W
  - Temperature Range: 90-450°C (190°-840°F) (±5%)
  - Idle Temp. Stability (still air): ±1.5 °C / ±3 °F
  - Tip to ground resistance: <2 ohms
  - Tip to ground voltage: <2mV RMS
  - Ambient operating temp: 10-40 °C / 50-104 °F
  - USB connector station-PC

Complies with CE standards  
ESD protected housing "skin effect"

## 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 due to use or mis-use. In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

## 保修

JBC的2年保修涵盖了该设备所有的制造缺陷，包括更换损坏的零件和人工。保修不包括因使用或误用而产生的产品损坏。为了使保修有效，设备邮资已付返回到购买时的经销处返修。

## Garantía

Esta garantía de 2 años cubre este equipo contra cualquier defecto de fabricación, incluyendo la sustitución de partes defectuosas y mano de obra. La garantía no cubre el desgaste del producto por uso o mal uso. Para que esta garantía sea válida, el equipo debe ser devuelto, a portes pagados, al distribuidor donde se compró.

## Garantie

Die 2-Jahres-Garantie von JBC erstreckt sich auf das Gerät bei Herstellungsfehlern, einschließlich Fehlern der Verarbeitung und dem Ersatz defekter Teile und deren Austausch. Die Garantie gilt nicht für Produktverschleiß durch normale Nutzung oder durch falsche Anwendung. Damit die Garantie Gültigkeit erlangt, muß das Gerät an den Händler, bei dem es gekauft wurde, zurückgesandt werden (Porto bezahlt).



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 must be collected and returned to an authorized recycling facility.

Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada.

Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

本产品不应被扔在垃圾筒内。根据欧洲指令2012/19/EU，电子设备在其寿命结束后必须被收集并返回到授权回收工厂。