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JBC

www.jbctools.com

INSTRUCTION MANUAL



CD-B

Soldering Station

This manual corresponds to the following references:

- **CD-1BQF** (120V)
- **CD-2BQF** (230V)
- **CD-9BQF** (100V)

Packing List

The following items are included:



CD Control Unit 1 unit



General Purpose Handle 1 unit
Ref. T245-A



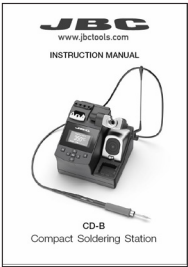
Power Cord 1 unit
Ref. 0023715 (120V)
0023714 (230V)
0024092 (100V)



Brass Wool 1 unit
Ref. CL6210

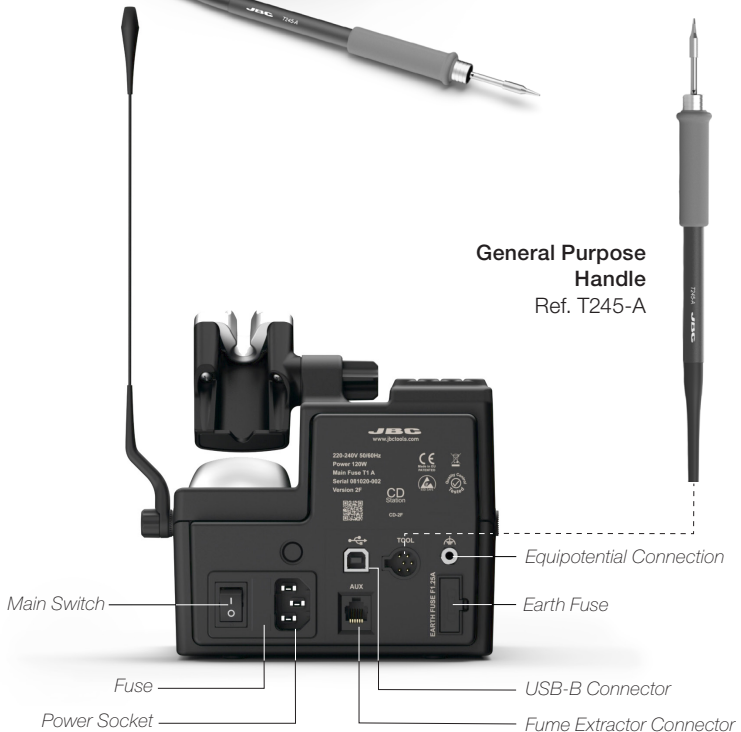


Sponge 1 unit
Ref. S0354



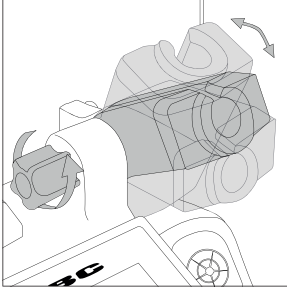
Manual 1 unit
Ref. 0023906

Features and Connections



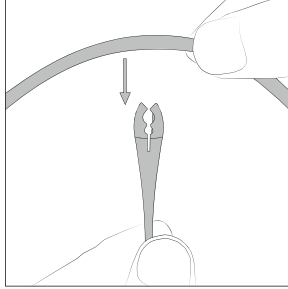
Adjustable Stand

Adjust the tool stand to suit your work position.

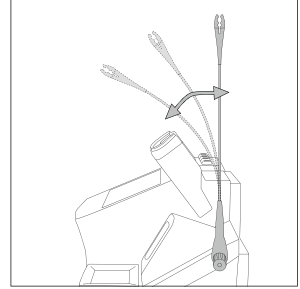


Cable Collector (Ref. CC1001)

The Cable Collector keeps the cable away from the work area and prevents that the weight of the cable from disturbing the operator while soldering.



Insert the cable into the clip and then insert into the Cable Collector. Do not leave the cable longer than necessary to reach the work area freely.



The Cable Collector is flexible. It accompanies and adapts to the movements during the soldering process.

Tip Cleaner

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

Splashguard

Ref. 0017576

When using the brass wool, it prevents splashing of solder particles.

Antisplash Membrane

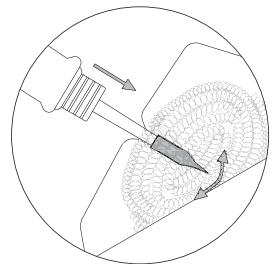
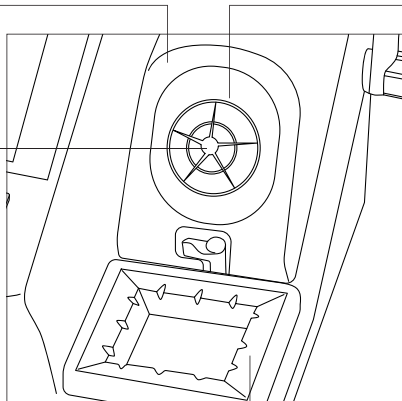
Ref. 0017574

Prevents splashing and keeps 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.

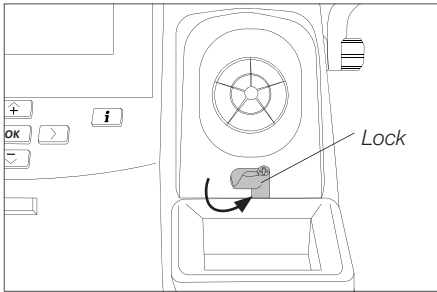
Wiper

Ref. CL0160

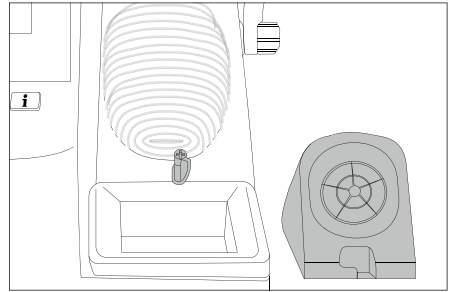
A temperature resistant receptacle for removing excess solder by gently tapping or wiping.

Removing the Splashguard

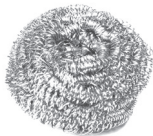
1. Unlock the splashguard.



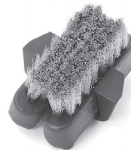
2. Lift off.



More cleaning options (not supplied):



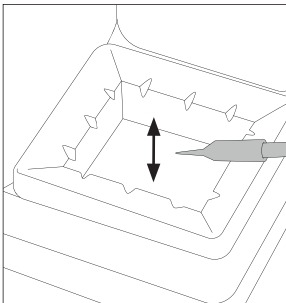
Inox Wool
Ref. CL6205
Stronger cleaning method than brass wool.



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

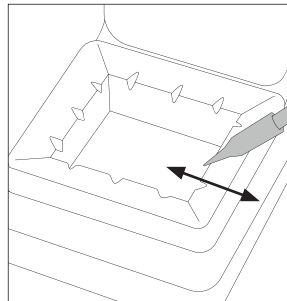
Wiper

Ref. CL0160



Tapping:

Tap gently to remove excess solder.

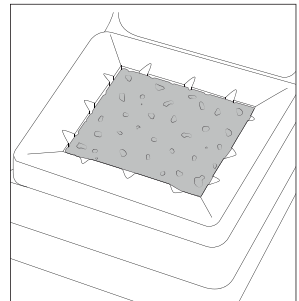


Wiping:

Use the slots to remove remaining particles.

Sponge

Ref. S0354



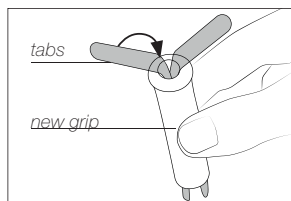
The softest cleaning method. Keep the sponge damp with distilled water when working to avoid tip wear.

Changing the Grips

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

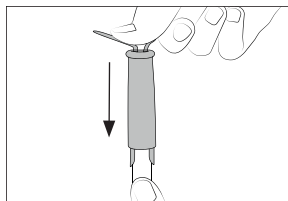
Handles: T245-A / T245-C / T245-GA	T210-A / T210-NA	T245-PA	T210-PA
Grip ref.: 0016057 (green)	0018658 (green)	0021528 (blue)	0023310 (blue)

1. Inserting Tabs



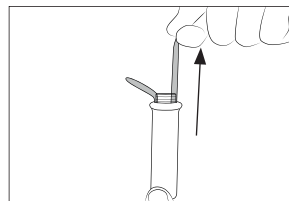
Put the slide-on tabs into the new grip.

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.

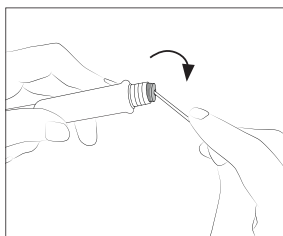
Sealing Plug Replacement

The sealing plug prevents undesirable flux vapors or particles from entering inside 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 vertical position. **Note:** Choose the correct sealing plug depending on your handle model.

Handles: T245 / T470	T210
Sealing plug ref.: OB2000	OB1000

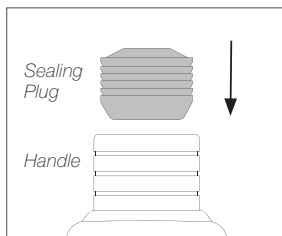
⚠ Before replacing the sealing plug, unplug the power supply and make sure the device is not hot.

1. Removing Sealing Plug



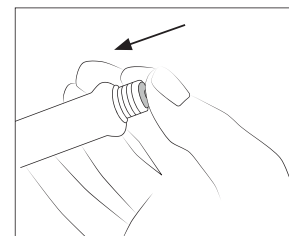
Enter, not deeper than 8mm, a small shaft or screwdriver, lift and pull the sealing plug. Never use a cartridge to do this operation.

2. Mounting Position



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

3. Inserting Sealing Plug

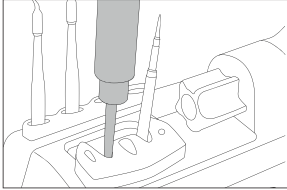


Push the sealing plug inside the handle until the sealing plug and handle edges are aligned.

Quick Tip Changer

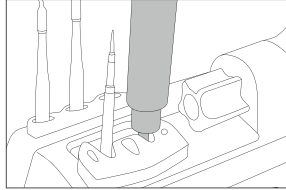
Save time and change cartridges safely without switching the station off.

1. Removing



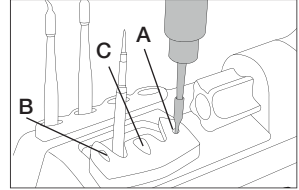
Place the handpiece in the extractor and pull to remove the cartridge.

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:

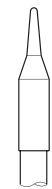
- A.** For straight C210.
- B.** For curved C210.
- C.** For C245.

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



Compatible Cartridges

The CD-B stations work with C245 cartridges and T245 handles.
Find the model that best suits your soldering needs in www.jbctools.com



Conical



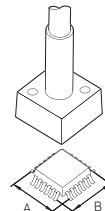
Chisel



Conical
Bent



Bevel



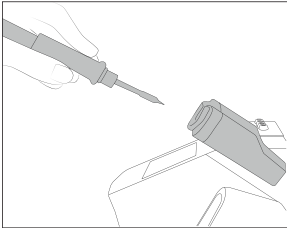
Special
Models

Operation

The JBC Most Efficient Soldering System

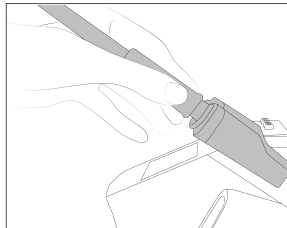
This revolutionary technology is able to recover tip temperature extremely quickly. This allows the user to work at a lower temperature. As a result, tip life increases by 5.

1. Work



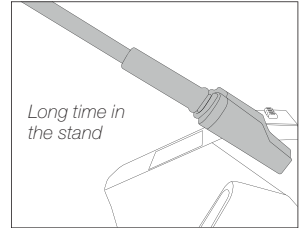
When the tool is lifted from the stand the tip will heat up to the selected temperature.

2. Sleep

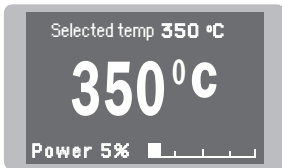


When the tool is in the stand, the temperature falls to the preset sleep temperature.

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)
 - ^ v Steps ± 5
 - < > Steps ± 50

- Through menu settings:
- Select temperature levels
 - Fix one temperature



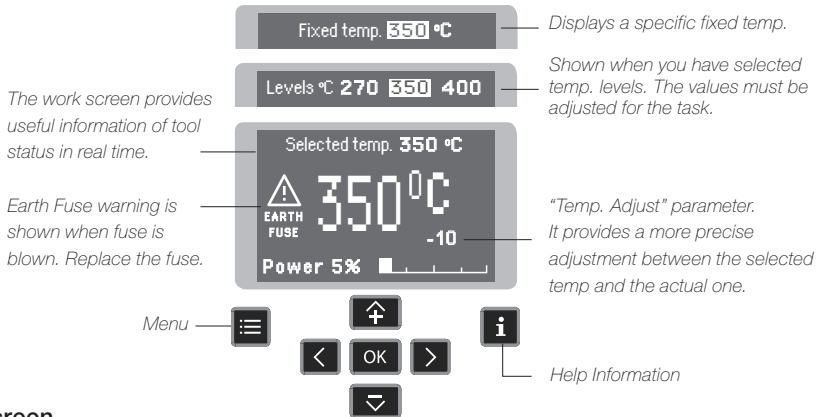
- Through menu settings:
- Change Sleep temperature
 - Set Sleep delay (from 0 to 9 min or no Sleep)



- Through menu settings:
- Change Hibernation delay (from 0 to 35 min)

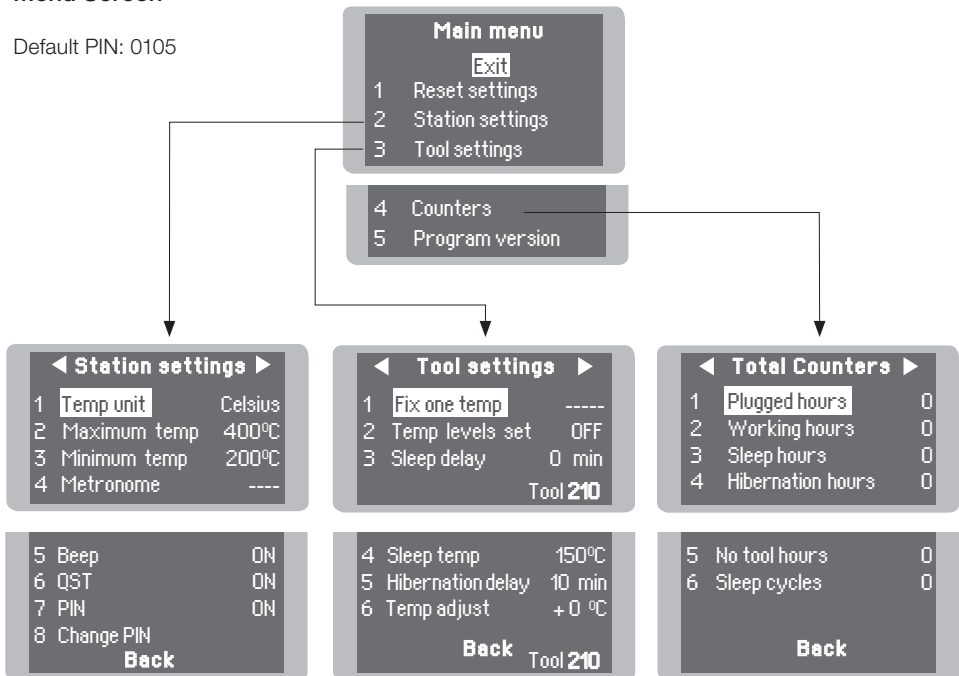
Control Process

Work Screen



Menu Screen

Default PIN: 0105



Troubleshooting

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

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
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).	 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.
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.		
Metronome 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
Beep Enable/disable the beep sound of the keypad.	N/a	N/a
QST Enable/disable QST.	N/a	N/a
Pin Enable/disable pin prompt.	N/a	N/a
Change Pin 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
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
Temperature Levels Set	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
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 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).
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.	

Tool Settings

Parameter	Description	Recommendations	Warnings
Hibernation Delay	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.	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.	 Increasing the default value will accelerate oxidation and shorten the tip life.
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 a thick cartridge and then the user changes to a thinner one without resetting the temperature adjustment, he would be working at a higher temperature than needed for this thinner cartridge, which does not need any temperature adjustment.

USB Connector

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

JBC Updater

www.jbctools.com/software.html

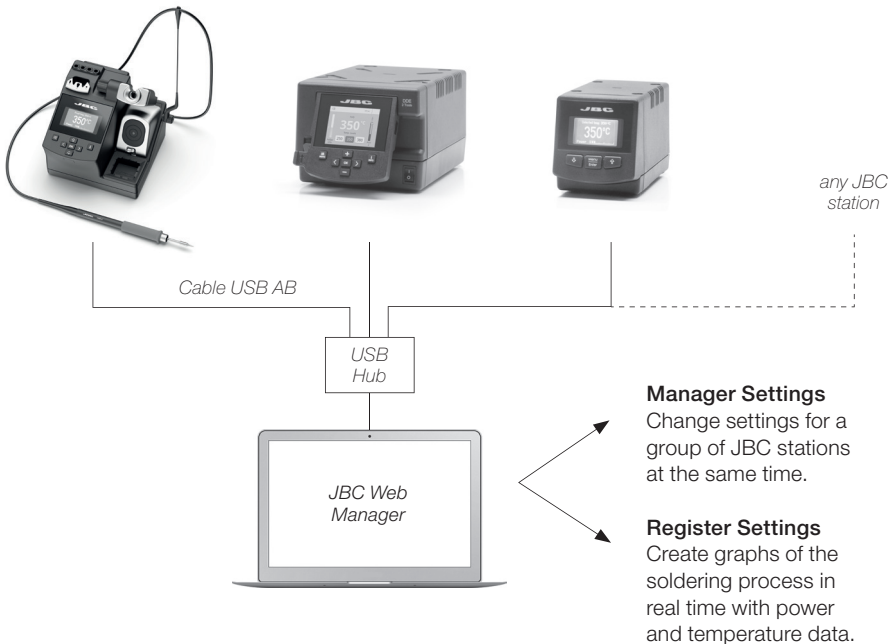
Update the station software via USB connection:



JBC Web Manager

www.jbctools.com/manager.html

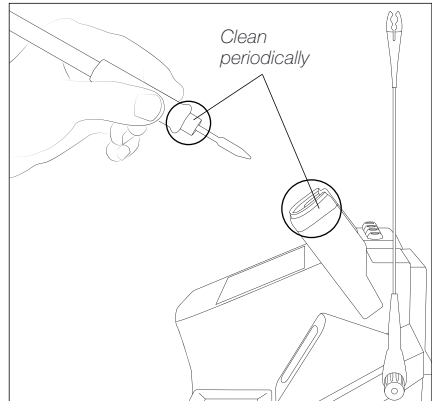
Manage and monitor as many stations as your PC can handle by using the JBC Web Manager. You can export data to another PC.



Maintenance

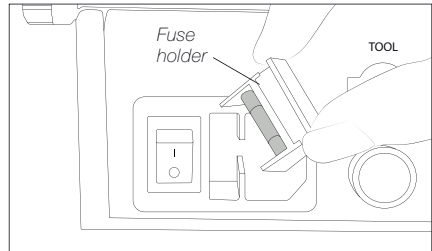
Before carrying out maintenance, always switch the device off and disconnect it from the mains. Allow the equipment to cool down.

- 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.

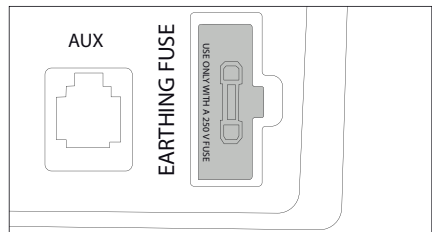


- Periodically check all cables and tubes.
- Replace any defective or damaged pieces. Only use original JBC spare parts.
- Replace a blown fuse as follows:

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.



- When this warning appears on the main screen Earthing Fuse must be replaced



- 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.

Specifications

CD-1BQF 120V 50/60Hz. Input fuse: T2A. Output: 23.5V.

CD-2BQF 230V 50/60Hz. Input fuse: T1A. Output: 23.5V.

CD-9BQF 100V 50/60Hz. Input fuse: T2A. Output: 23.5V.

- Output Peak Power: 130W
- Temperature Range: 90 - 450 °C / 190 - 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/resistance: Meets and exceed
ANSI/ESD S20.20-2014 IPC J-STD-001F
- Earthing Fuse: F 1.25A
- Connections: USB connector station-PC
RJ12 Connector
- Ambient operating temp: 10 - 50 °C / 50 - 122 °F
- Control Unit Dimensions / Weight: 170 x 176 x 145 mm / 2.8 kg
(L x W x H) 6.7 x 9.7 x 5.7 in / 6.17 lb
- Total Net Weight: 3 kg / 6.61 lb
- Total Package Dimensions / Weight: 234 x 234 x 258 mm / 3.15 kg
(L x W x H) 9.2 x 9.2 x 10.2 in / 6.94 lb

Complies with CE standards

ESD protected housing "skin effect"

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.

CE EAC

www.jbctools.com