Precision Soldering Station

Ref. CD-SD
Packing List

The following items should be included:

CD Control Unit .................................................. 1 unit
Precision Handpiece ............................................. 1 unit
Cartridges .............................................................. 2 units
Brass wool .............................................................. 1 unit
Sponge ................................................................. 1 unit
Power Cord ............................................................. 1 unit

CD Control Unit
Ref. CD-1D (120V)
CD-2D (230V)
CD-9D (100V)

Precision Handpiece
Ref. T210-A

Cartridges
Ref. C210001
C210008

Brass Wool
Ref. CL6210

Sponge
Ref. S0354

Power Cord

Manual
Features

CD Control Unit
Ref. CD-1D (120V)
CD-2D (230V)
CD-9D (100V)

Quick Tip Changer

Adjustable Stand: Intelligent Heat Management

Process Control

Tip Cleaning System

USB-B connector

Power Cord Socket

Equipotential connection

Main switch

Fuse

Cable collector

Precision Handpiece
Ref. T210-A

350°C
Adjustable stand

Adjust the tool stand to suit your work position.

Cable collector

Place the cable on the collector and adjust its position to avoid tangles.
Tip Cleaning System
Select the option that best suits your tip cleaning needs.

Splashguard

Brass Wool
Ref. CL6210
Very effective cleaning method. Leaves a small layer of solder on the tip preventing oxidation between cleaning and rewetting.

More options for the splashguard (not supplied):

Inox Wool
Ref. CL6205
Provides a superior cleaning on the tip.

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

Tip Wipe

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 the excess of solder.

Wiping:
Use the slots to wipe off any remaining particles.
Quick Tip Changer

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

1. Removing

Place the handpiece in the extractor and remove the cartridge.

2. Inserting

Place the handpiece on top of the new cartridge, press it down slightly and remove the handpiece from the extractor.

3. Fixing

Press the cartridge* to the fixing holes according to the following:
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 correct connection.

Compatible cartridges

The CD stations can use both the C245 and the C210 cartridges only with the appropriate handpiece: T245/T470 or T210. Find the model that best suits your soldering needs in www.jbctools.com
USB Connector
Download the latest softwares from our website to improve your soldering station.

JBC Updater
www.jbctools.com/software.html
Update the station software via USB connection:

JBC Manager
www.jbctools.com/manager.html
Manage and monitor stations connected to a Windows PC by using the JBC Manager:

Manager Settings
Change settings for a group of JBC stations at the same time.

Register Settings
Create graphs of the soldering process in real time with power and temperature data.
Operation

The JBC Exclusive Heating System
This revolutionary technology is able to recover the tip temperature extremely quickly. This allows the user to work at a lower temperature. As a result, the tip life increases x5 times.

1. Work
Lift tool from the stand and the tool tip will heat up to the selected temperature.

2. Sleep
When the tool is in the stand, the temperature reduces to 180ºC / 360ºF (preset sleep temperature).

3. Hibernation
After longer periods of inactivity (pre-set to 30 minutes), the power is cut off and the tool cools down to room temperature.

· Change temperature (from 200 to 400ºC)
· 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)
Process Control

Work Screen

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

Menu Screen

Original PIN: 0105

Station settings
1 Temp unit Celsius
2 Maximum temp 400°C
3 Minimum temp 200°C
4 Help text OFF
5 Beep ON
6 Change PIN

Tool settings
1 Fix one temp ------
2 Temp levels set OFF
3 Sleep delay 0 min
4 Sleep temp 180°C
5 Hibernation delay 30 min
6 Temp adjust +0 °C

Counters
1 Plugged hours 0
2 Working hours 0
3 Sleep hours 0
4 Hibernation hours 0
5 No tool hours 0
6 Sleep cycles 0

Displays a specific fixed temp.

Shown when you have selected temp. levels.
Compatible Handpieces

For precision uses
C210 Cartridge range

Precision Handpiece
Ref. T210-A

Precision Blue Grip Handpiece
Ref. T210-PA
This allows you to differentiate the handpiece used in soldering jobs with leaded alloys from the lead-free soldering jobs.

For general uses
C245 Cartridge range

Handpiece
Ref. T245-A

Blue Grip Handpiece
Ref. T245-PA
This allows you to differentiate the handpiece used in soldering jobs with leaded alloys from the lead-free soldering jobs.

Soft Touch Handpiece
Ref. T245-B
Anti-slip and soft touch grip.
For greater demands  
**Important:** Only work with C245 cartridges when used with a CD station.

Handpieces for intensive soldering jobs requiring a continuous high thermal power. Soft touch and anti-slip grips. They feature a larger width grip and a screw which fixes the cartridge and prevents its rotation and movement.

<table>
<thead>
<tr>
<th>Handpiece</th>
<th>Handpiece with cable 3m</th>
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<tbody>
<tr>
<td>Ref. T470-A</td>
<td>Ref. T470-SA</td>
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**Tri-lobed Handpiece**  
Ref. T470-ZA  
For a greater manual control of the tool

**Thermal Insulation Handpiece**  
Ref. T470-FA  
**Thermal Insulation Handpiece with cable 3m**  
Ref. T470-MA  
Foam grip for soldering jobs with high thermal requirements.

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

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

- Clean the station’s 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.

- Check periodically that the metal parts of the tool/stand are clean so that the station can detect when the tool is in the stand.

- 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 connections.

- Replace the fuse if it is blown according to the following guidelines:

Remove the fuse by pulling the black cap. If necessary use a tool to lever it off.

Press the new fuse into the 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 removing it, hold the plug, not the wire.

- Do not work on electrically live parts. Antistatic handle of soldering irons is electrically conductive.

- 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 inflamable products to ignite even when out of sight.

- 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 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 shall not be carried out by children unless supervised.
## Technical Specifications

- Total unit weight: 2.6 Kg (5.7lb)
- Size: 150 x 175 x 145 mm
- Temperature selection from 90°C (190°F) to 450°C (840°F) (±5%).
- Output Peak Power CD-SD: 40W.
- Safety transformer, mains separator and double isolation.
- **CD-1SD** 120V 50/60Hz. Input fuse: 2A. Output: 23.5V. Control Unit model: **CD-1D**
- **CD-2SD** 230V 50/60Hz. Input fuse: 1A. Output: 23.5V. Control Unit model: **CD-2D**
- **CD-9SD** 100V 50/60Hz. Input fuse: 2A. Output: 23.5V. Control Unit model: **CD-9D**
- Input Fuse 1A (230V), 2A (120V and 100V)
- Tip to ground resistance <2 ohms
- Tip to ground voltage <2mV RMS
- Ambient operating temp: 10-40 ºC / 50-104 ºF
- USB interface 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.

This product should not be thrown in the garbage. In accordance with the European directive 2002/96/EC, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.