

# JBC

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

English



## Premium Precision Soldering station

Ref. DIR-D



## Packing List

The following items should be included:

**DI Control Unit** ..... 1 unit

**Stand** ..... 1 unit

**Precision Handpiece** ..... 1 unit

**Tip Cleaning Stand** ..... 1 unit

**Sponge** ..... 1 unit

**Cartridge** ..... 1 unit

**Stand Cable Connection** ..... 1 unit

**Power Cord** ..... 1 unit

### DI Control Unit

Ref. DI-1D (120V)  
DI-2D (230V)  
DI-9D (100V)



### Stand

Ref. AD-SD



### Precision Handpiece

Ref. T210-A



### Tip Cleaning Stand

Ref. CL9885



### Sponge

Ref. S0354



### Cartridge

Ref. C210001



### Stand Cable Connection

Ref. 0011283



### Power Cord

Ref. 0009417 (100V/120V)  
0009401 (230V)

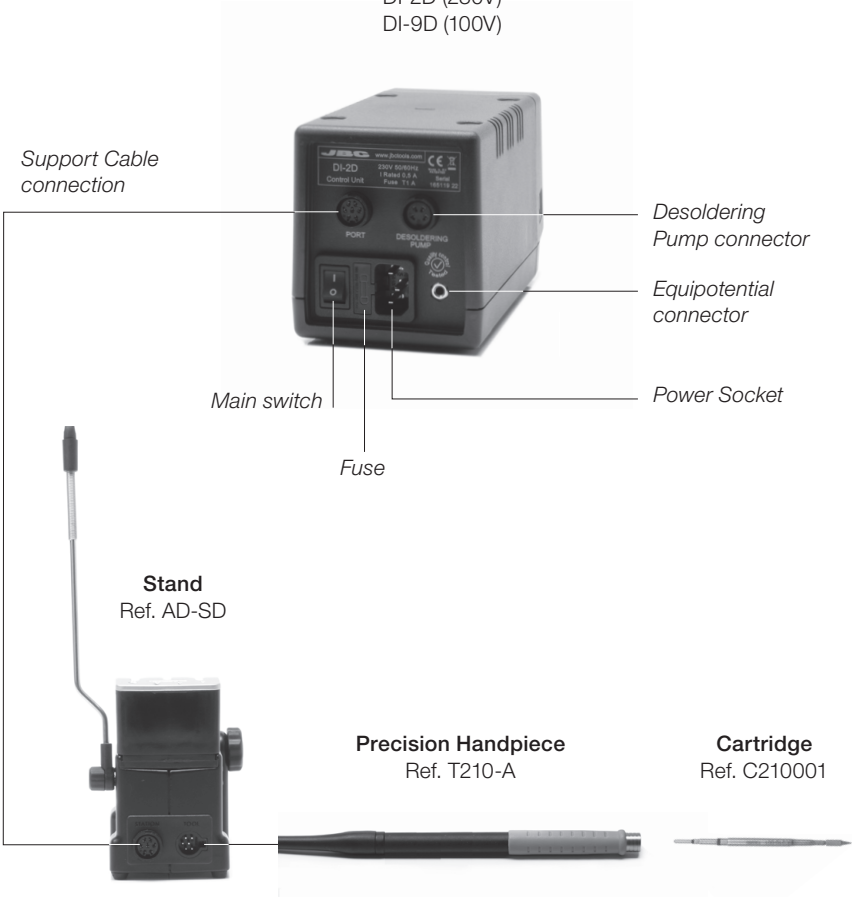


### Manual



# Features

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



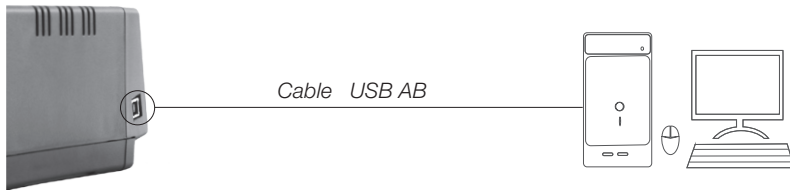
## USB Connector

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

### JBC Updater

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

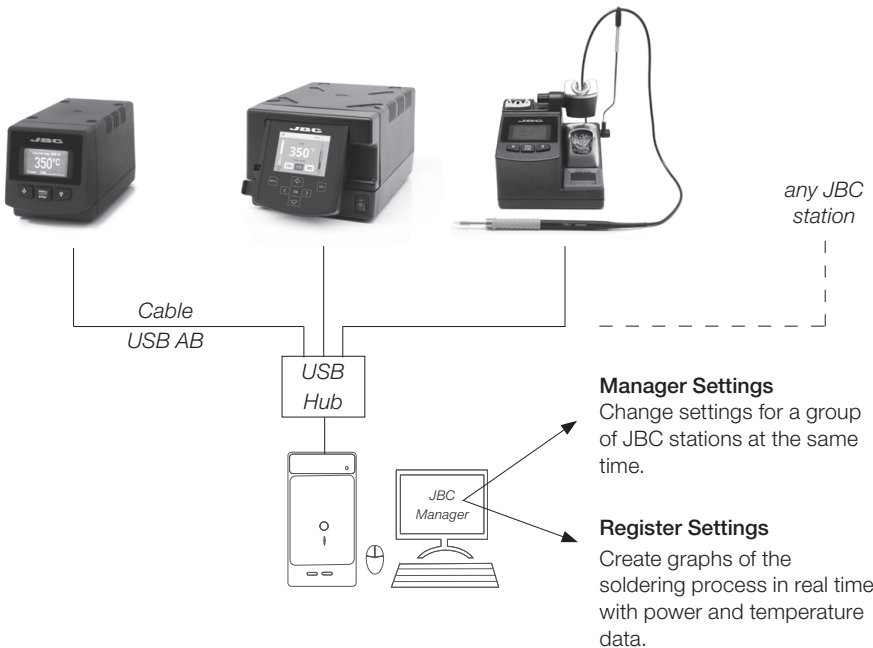
Update the station software via USB connection:



### JBC Manager

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

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



# Operation

## The JBC Exclusive Heating System

This revolutionary technology is able to recover tip temperature extremely quickly.

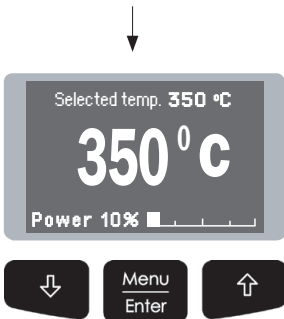
This allows the user to work at a lower temperature.

As a result, tip life increases x5 times.

### 1. Work



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



· Change temperature  
(from 90 to 450°C)

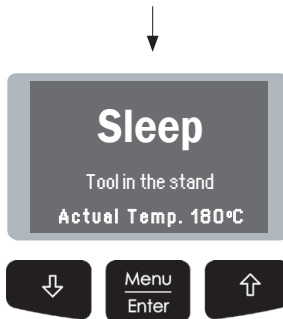
Menu:

- Select temperature levels
- Fix one temperature
- Set temperature limits

### 2. Sleep



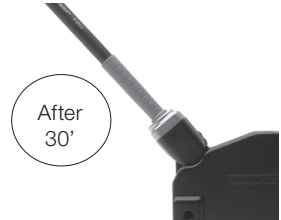
When the tool is in the stand, the temperature reduces to 180°C / 360°F (preset sleep temperature).



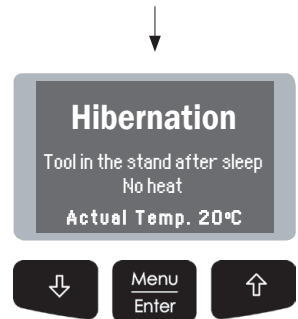
Menu:

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

### 3. Hibernation



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



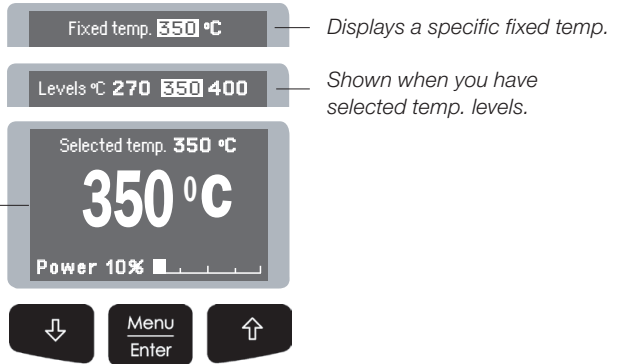
Menu:

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

## Process Control

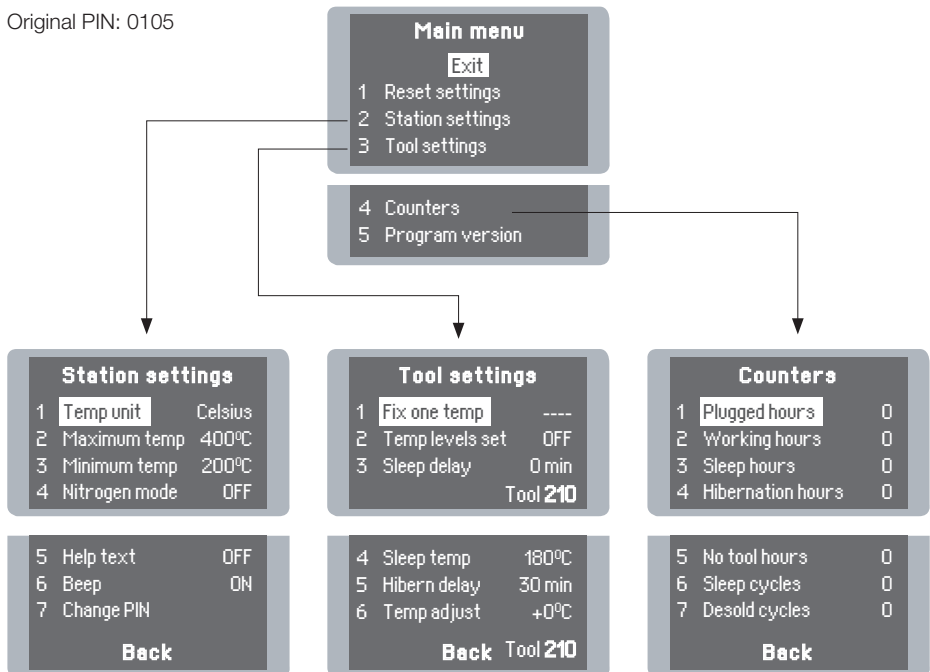
### Work Screen

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



### Menu Screen

Original PIN: 0105



# Stand

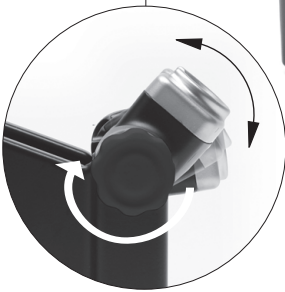
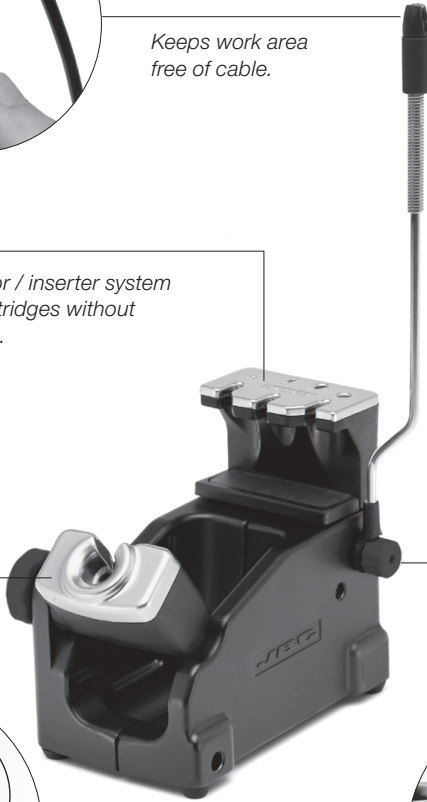


**Cable collector**

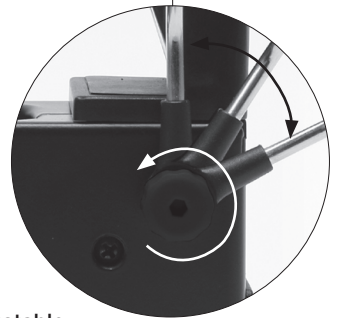
*Keeps work area free of cable.*

## Quick tip changer

*The cartridge extractor / inserter system permits switching cartridges without interrupting your work.*



**Adjustable tool holder**  
*Suits your work position.*



**Adjustable cable collector**



## Changing cartridge

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

### 1. Removing



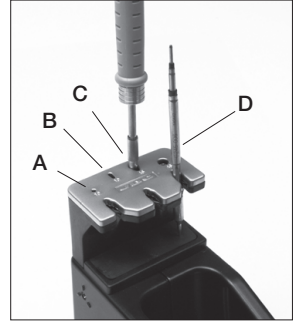
Place the handpiece in the extractor and remove the cartridge.

### 2. Inserting



Insert the cartridge into the handpiece and gently press down.

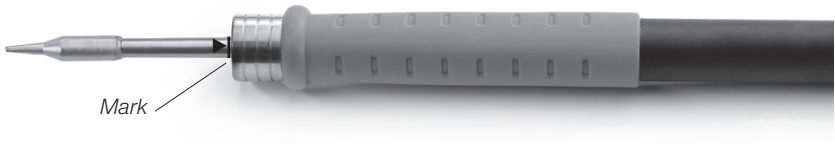
### 3. Fixing



Put the cartridge\* into the fixing holes as follows:

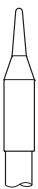
- A.** For straight C210.
- B.** For curved C210.
- C.** For curved C245.
- D.** For straight C245.

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



### Compatible cartridges

The DIR-D works with T210 handpieces and C210 cartridges. Find the model that best suits your soldering needs in [www.jbctools.com](http://www.jbctools.com)



Round



Chisel



Round bent



Bevel



Special models

# Compatible Handpieces

## For precision uses

Work with C210 Cartridge range

### Precision Handpiece

Ref. T210-A



### Precision Blue Grip Handpiece

Ref. T210-PA

This allows you to distinguish the handpiece using leaded alloys and the handpiece using lead-free ones.



## For general uses

Work with 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 DI Control Unit

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 rotation and movement.

**Handpiece**

Ref. T470-A

**Handpiece with cable 3m**

Ref. T470-SA

**Tri-lobed Handpiece**

Ref. T470-ZA



For better handling of the tool.

**Thermal Insulation Handpiece**

Ref. T470-FA

**Thermal Insulation Handpiece with 3m cable**

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.*

## Tip Cleaning stand

Improve thermal transfer by cleaning the tip after each solder joint.

### Brass wool

Ref. CL6210

*Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and rewetting.*

### Sponge

Ref. S0354

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

### Splashguard

*It reduces solder splashes when using the metal or brass wool.*



### Non-slip base

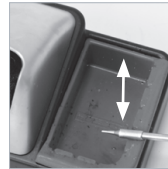
*You don't need to hold the base while cleaning tips*

### Wiper

Ref. CL0236

*A temperature resistant receptacle allows the operator to remove excess solder by gentle tapping or wiping. Wiper can be easily removed for cleaning.*

### Tapping:



Tap gently to remove the excess solder.

### Wiping:



Use the slots to wipe off any remaining particles.

## Optional

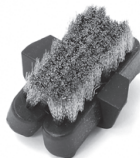
### Inox wool

Ref. CL6205



### Brushes

Ref. CL6220



### Tip-tinner

Ref. TT-A



### Sand

Ref. CL6211

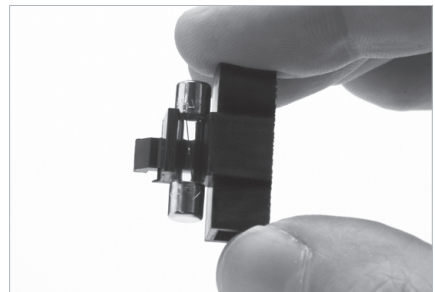
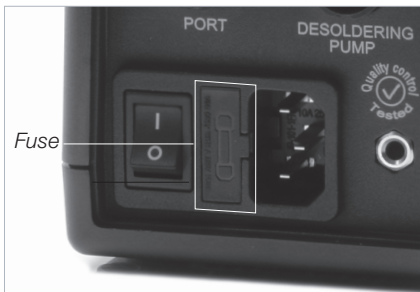


## Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool and unplug the stand from the station and the tool

- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing, the stand and the tool. Alcohol can only be used when cleaning 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 cable connections.
- Replace a blown fuse as follows:

Clean periodically



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

**2.** 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.

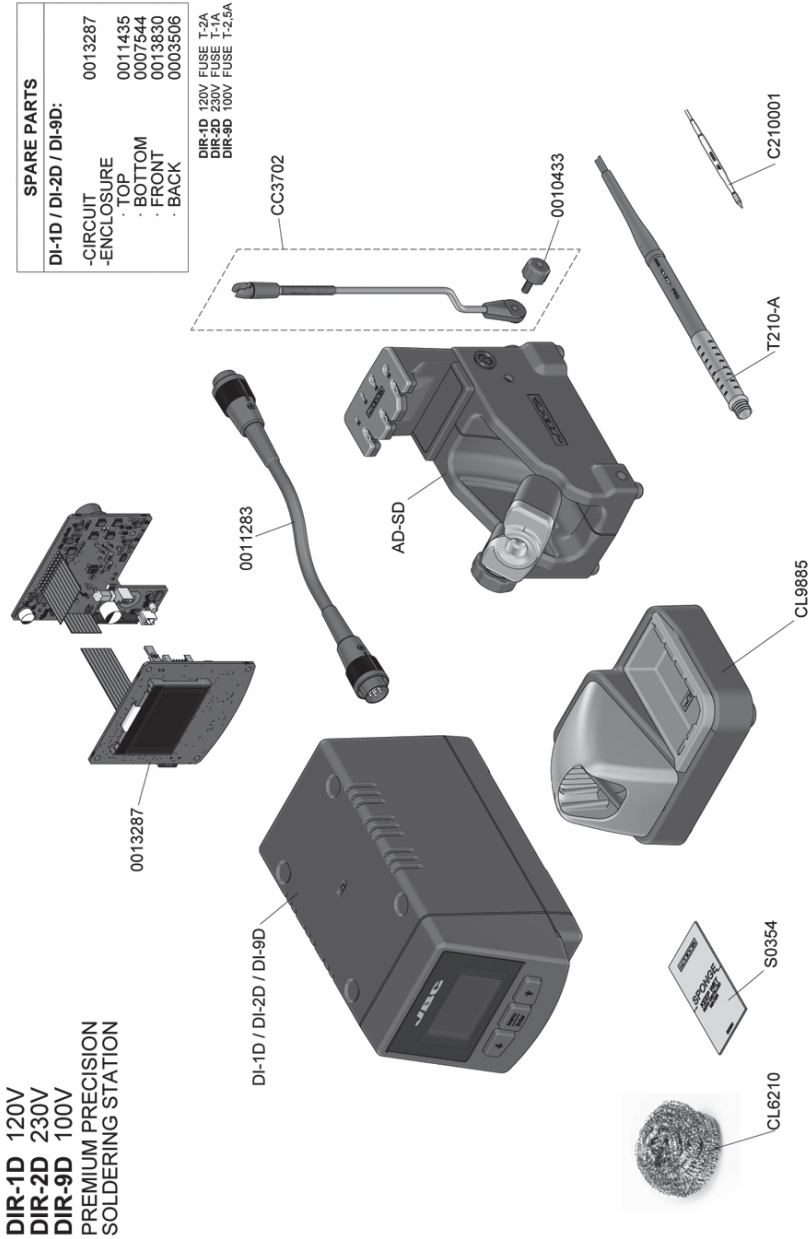
# Safety



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

- Do not use the equipment 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. 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 inflammable 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.

## Exploded View



## Specifications

**DI-1D** 120V 50/60Hz. Input fuse: 2A. Output: 23.5V.

**DI-2D** 230V 50/60Hz. Input fuse: 1A. Output: 23.5V.

**DI-9D** 100V 50/60Hz. Input fuse: 2.5A. Output: 23.5V.

- Total weight: 4,6 kg (10.1 lb)
- Control Unit dimensions: 90 x 105 x 180 mm
- Temperature selection: 90°C (190°F) to 450°C (840°F)
- Idle Temp. Stability (still air): +/-1.5 °C (3°F)
- Output Peak Power: 40W
- 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"

# 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 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.