

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



**Stand** ..... 1 unit  
Ref. AD-SD



**Precision Handle** ..... 1 unit  
Ref. T210-A



**Tip Cleaner** ..... 1 unit  
Ref. CL9885



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



**Cartridge** ..... 1 unit  
Ref. C210001



**Stand Cable** ..... 1 unit  
Ref. 0011283



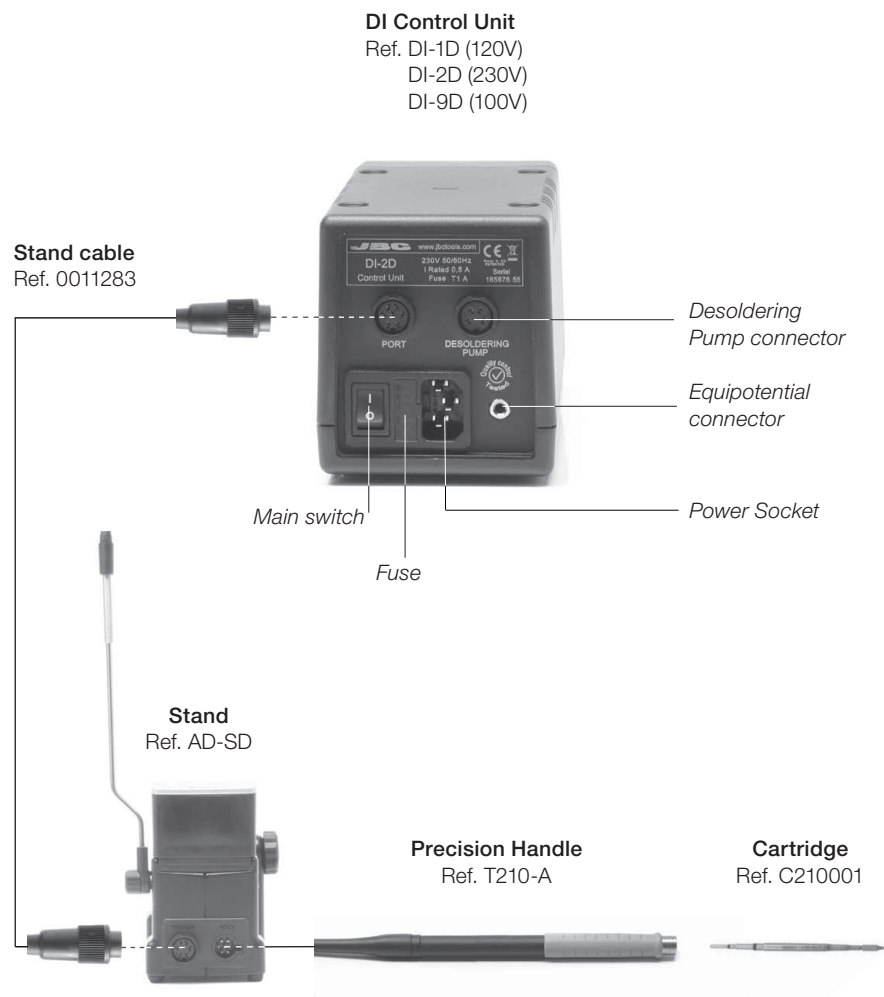
**Power Cord** ..... 1 unit  
Ref. 0009417 (100V/120V)  
0009401 (230V)



**Manual** ..... 1 unit  
Ref. 0014652



## Features



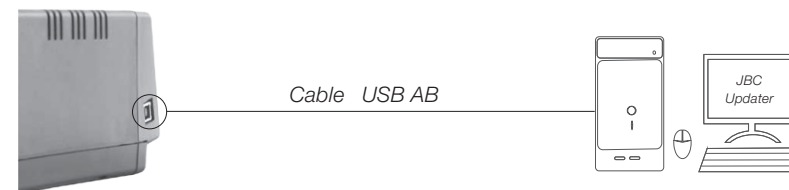
## USB Connector

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)

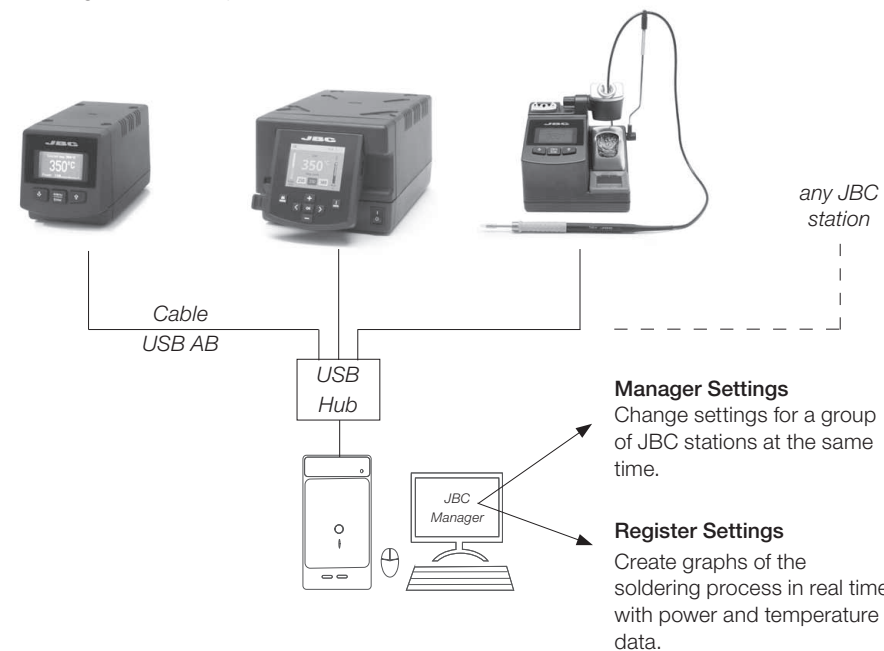
Update the station software via USB connection:



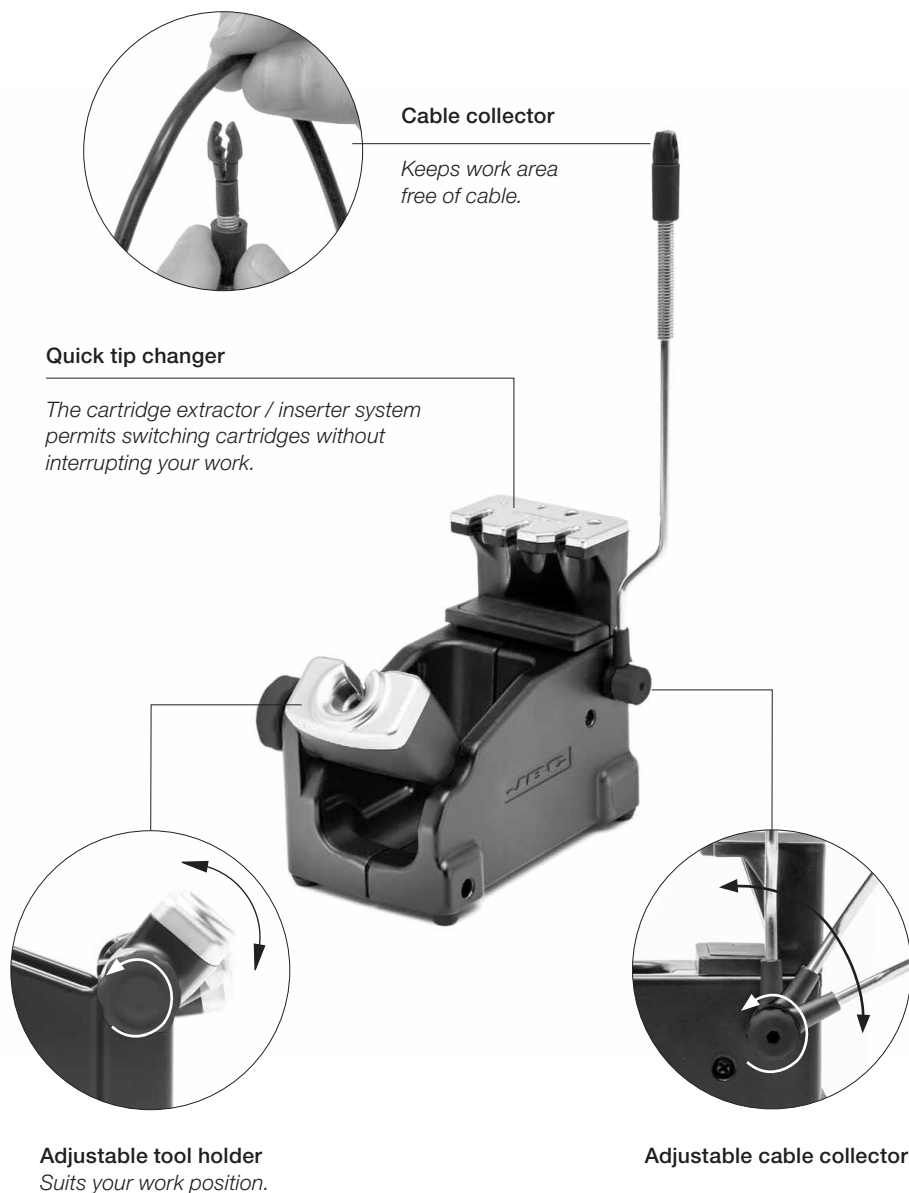
### JBC Manager

[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.



## Adjustable Stand



## Tip Cleaner

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 avoid tip wear.

**Splashguard**

It reduces splashing of solder particles when using the brass wool.



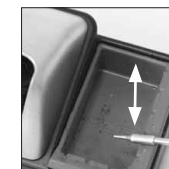
**Non-slip base**

No need to hold the base while cleaning tips

**Wiper**  
Ref. CL0236

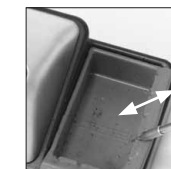
A temperature resistant receptacle lets the operator remove excess solder by gentle tapping or wiping. It can be easily removed for cleaning.

Tapping:



Tap gently to remove excess solder.

Wiping:



Use the slots to remove remaining particles.

## Optional

**Inox wool**  
Ref. CL6205



**Brushes**  
Ref. CL6220



**Tip-tinner**  
Ref. TT-A



**Sand**  
Ref. CL6211



## Compatible Handles

### For general use

Works with C245 Cartridge range

#### General Purpose Handle

Ref. T245-A



#### Blue General Purpose Handle

Ref. T245-PA



#### Non-slip Handle

Ref. T245-B



#### Soft Thermal Insulator Handle

Ref. T245-C



Note: All models are supplied with a 1.5m 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.

#### General Purpose HD Handle

Ref. T470-A



#### General Purpose HD Handle with 3m cable

Ref. T470-SA

#### Tri-lobed Handle

Ref. T470-ZA

For better handling of the tool.



#### Thermal Insulator HD Handle

Ref. T470-FA



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

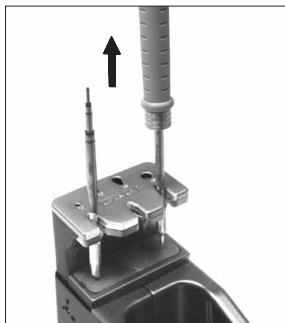
Ref. T470-MA

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

## Changing Cartridges

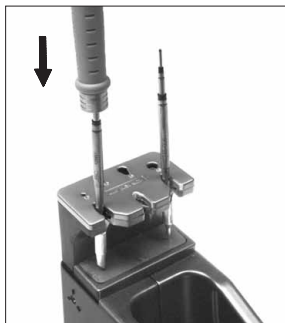
Save time and change cartridges safely without switching the station off.

### 1. Removing



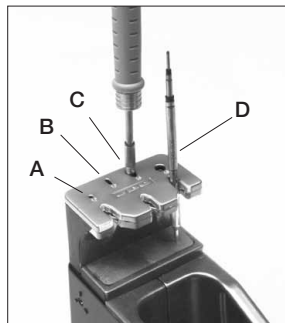
Place the handpiece in the extractor and pull to remove the cartridge.

### 2. Inserting



Insert the handle 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 curved C245.  
**D.** For straight C245.

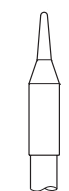
### \*Important

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



### Compatible cartridges

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



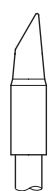
Round



Chisel



Round bent



Bevel



Special models

## Operation

### The JBC Exclusive Heating System

Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the quality of soldering. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase the tip life by 5.

### 1. Work



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

### 2. Sleep

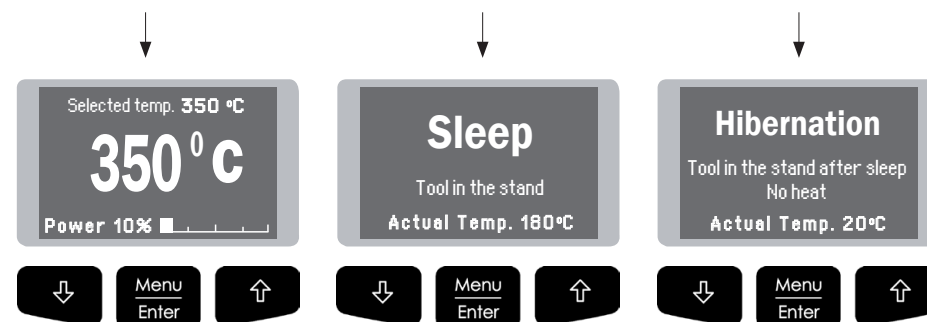


When the tool is in the stand, the temperature reduces to 180°C / 360°F (preset sleep temperature).

### 3. Hibernation



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



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

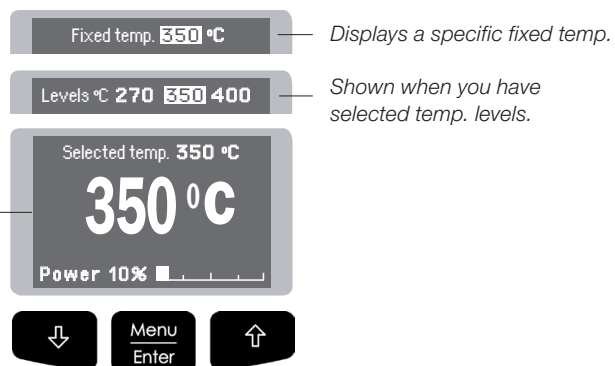
- Change Sleep temperature
- Set Sleep delay (from 0 to 9 min or no Sleep)

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

## Process Control

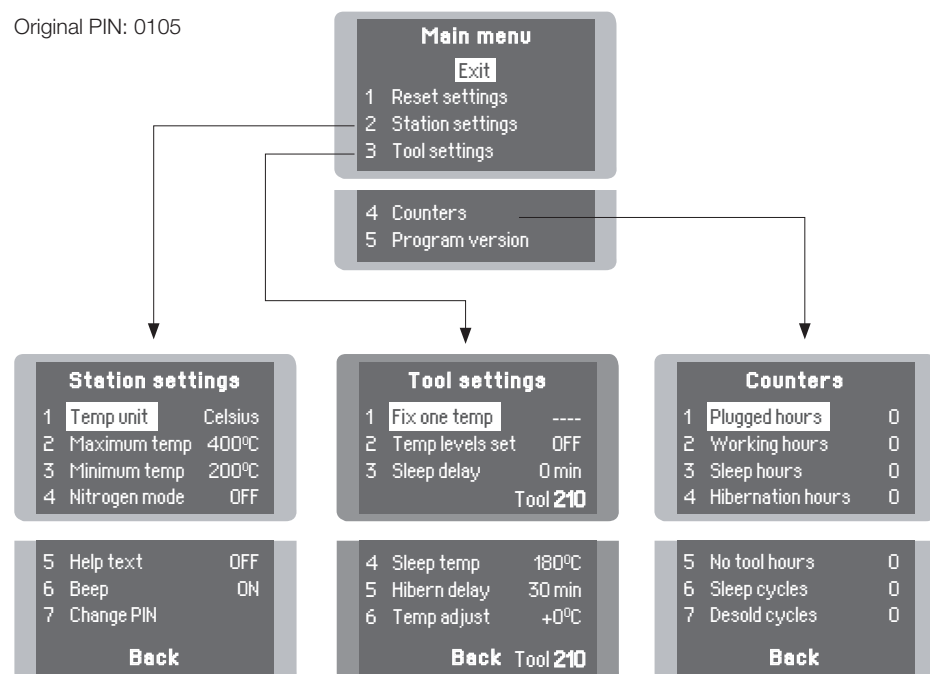
### Work Screen

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



### Menu Screen

Original PIN: 0105

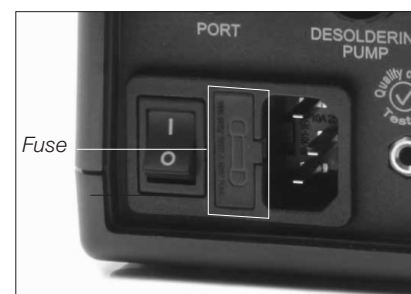


## Maintenance

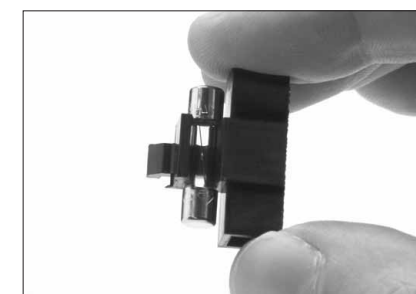
Before carrying out maintenance or storage, always allow the equipment to cool and unplug the stand from the station and the tool.

- 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 for cleaning the metal parts.
- Periodically check 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.



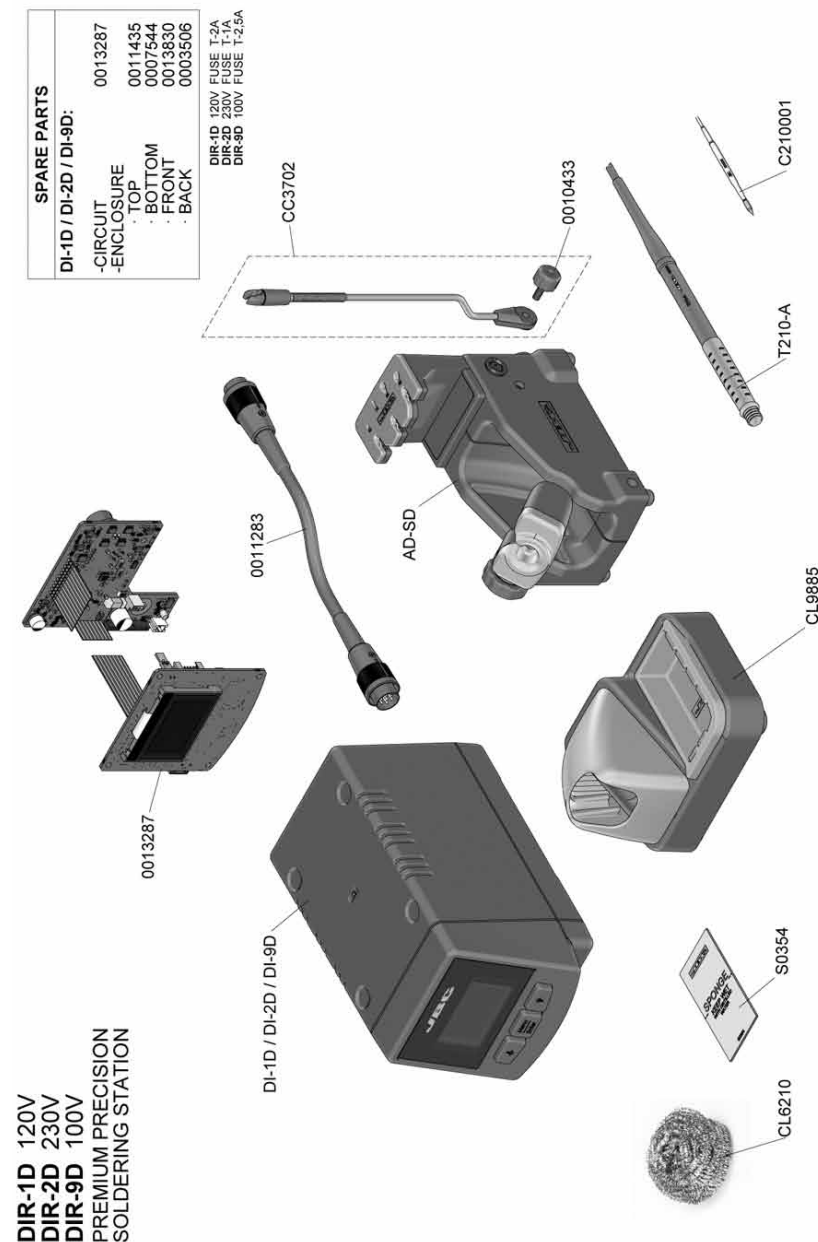
## Safety



**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

### Premium Soldering station

#### DIR-1D/ DIR-2D/ DIR-9D

- Total weight: 4.6 kg (10.1 lb)

**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.

- Weight: 2.2 kg (9.6 lb)
- Dimensions: 90 x 105 x 180 mm
- Temperature Range: from 90°C (190°F) to 450°C (840°F)
- Idle Temp. Stability (still air):  $\pm 1.5^{\circ}\text{C}$  /  $\pm 3^{\circ}\text{F}$
- Output Peak Power: 40W
- Tip to ground resistance:  $< 2\ \Omega$
- Tip to ground voltage:  $< 2\text{mV RMS}$
- 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.