

JBC

www.jbctools.com

INSTRUCTION MANUAL



B-IRON 115T Battery Tweezer Station

This manual corresponds to the following references:

Console included*:

- BI115TUA** 120 V - N. America, Taiwan
- BI115TIA** 230 V - India
- BI115TA** 230 V - Europe
- BI115TKA** 230 V - United Kingdom
- BI115THA** 230 V - China
- BI115TJA** 100 V - Japan

Console not included*:

- BI115TUQA** 120 V - N. America, Taiwan
- BI115TIQA** 230 V - India
- BI115TQA** 230 V - Europe
- BI115TKQA** 230 V - United Kingdom
- BI115THQA** 230 V - China
- BI115TJQA** 100 V - Japan

Packing List

The following items are included:



**Stand for B115T Nano
B-iRON Tweezers** 1 unit
Ref. B115T-SA



**Nano B-iRON
Tweezers** 1 unit
Ref. B115T-A



B-iRON Console 1 unit*
Ref. 0030035



Cable USB 1 unit
Ref. 0028092



Cartridge 2 units
Ref. C115118 (ø 0.1 mm)



Brass Wool 1 unit
Ref. CL0300
already assembled in the stand



Power Cord 1 unit*
Ref. 0027380 120V - N. America, Taiwan
0027381 230V - India
0027382 230V - Europe
0027378 230V - United Kingdom
0027379 230V - China
0028103 100V - Japan



Manual 1 unit
Ref. 0028298

* included according to purchased station reference.

Features and Connections



B-iRON Console

Note: for references without console blue tooth device like PC or mobile can be connected.



Bluetooth Connection

B115T Nano B-iRON Tweezers

USB Cable
(only for charging)



Screw to detach the Support

USB Connector

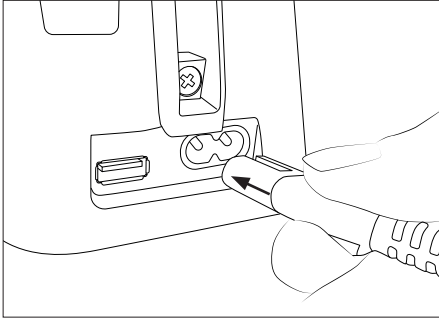
Power Socket



C115 Cartridge Range, not included

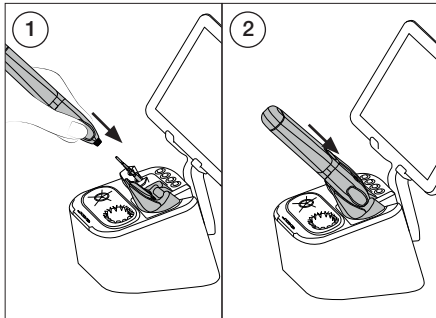
Quick Start

1. Connection



Connect the stand to the mains (100 - 240 V).

2. Cartridge Insertion and Charging



Insert a cartridge into the tool (1) and place it into the charger on the stand (2).

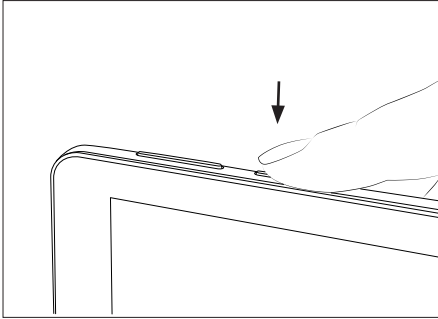
Note: Charge the tool completely (30 min) before using for the first time.



The status indicator light indicates as follows the tool status:

green	working/soldering
green blinking	charging
alternating red/green blinking	low battery, less than 20%
red blinking:	no cartridge
no color:	power OFF

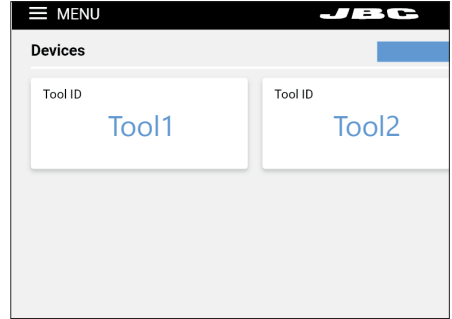
3. Switching on Console/Device



Turn on the console/device and open the B·iRON Application:



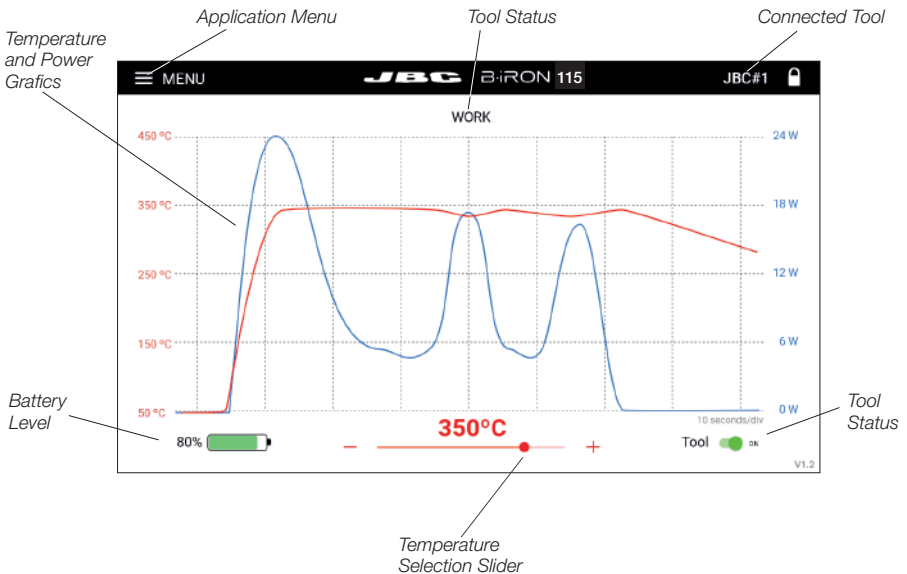
4. Selecting Tool



Select the tool from the detection list.

Console Work Screen

The work screen shows the graph of the current tip temperature and the power supplied to the tip by moving the graph permanently to the left.

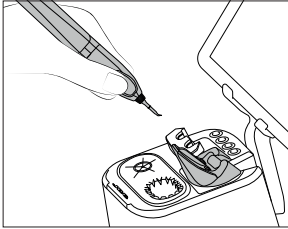


Operation

The JBC Most Efficient Soldering System

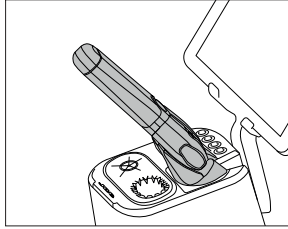
This revolutionary technology is able to recover tip temperature extremely quickly. This allows the user to work at a lower temperature.

Work



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

Charging and Hibernation

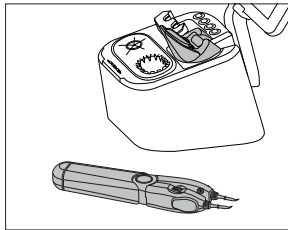


When the tool is in the stand enters into Hibernation Mode and cools down to room temperature.

While the tool remains in the stand, it charges.

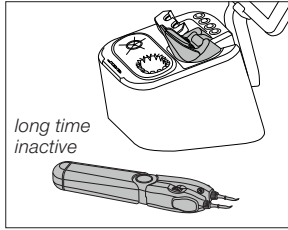
Note: When the tool is lifted from stand the Soldering System acts as follows:

Hibernation



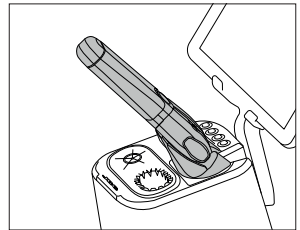
When the tool is outside of the stand and remains inactive (no movement), the tool enters into Hibernation mode and cools down to room temperature.

Turned Off



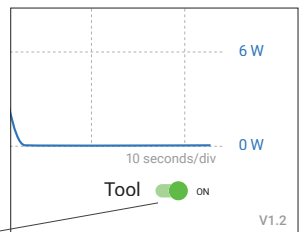
If the tool has been inactive for a longer period of time, it is turned off.

Turned On



To turn the tool on, put it back into the stand.

Note: If desired, the tool can be switched off/on. Tab the Tool Power button at the tablet screen (bottom right) to switch it off/on.



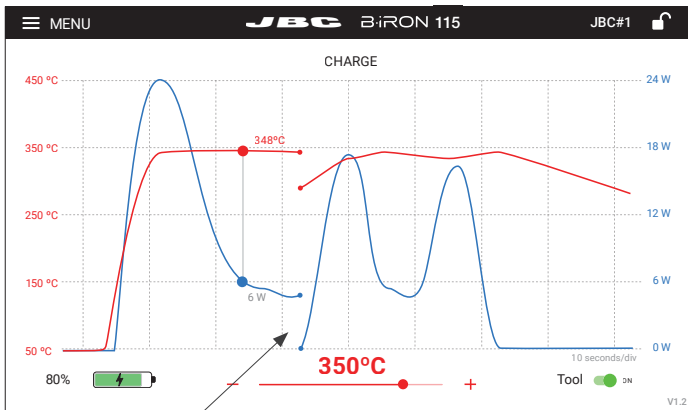
Tool Power Button

Grafics

The work screen shows the automatic recording of the temperature and power grafics.

The automatic recording can be paused by tapping the screen at the grafic area. The automatic recording stops also when the tool stops working.

While the automatic recording is stopped, you can get the temperature/power value on a certain point by tapping the graph on the tablet screen.



*When the tool ist not in use
the grafics stops recording*

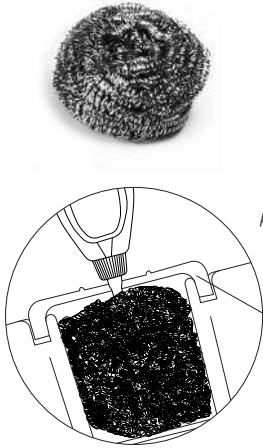
The grafic can be moved to the left and right by swiping the touch screen sideways with one finger.

The recording starts automatically as soon as the tool is removed from the stand and the graphic automatically jumps to the end of the last recording and continues with the recording.

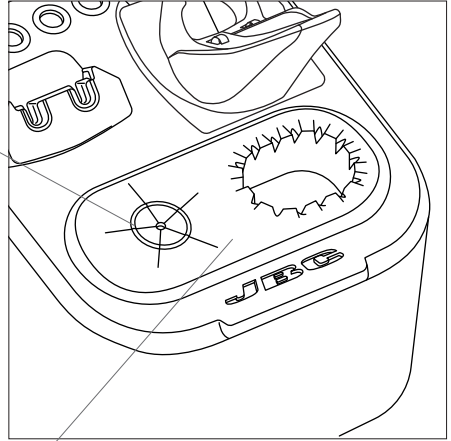
Note: When the tool is placed in the stand and is not in use, the temperature/power recording stops. A gap can then be seen in the curve grafics.

Tip Cleaner

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



Brass Wool
Ref. CL0300
Very effective cleaning method. Leaves a small layer of solder on the tip preventing oxidation between cleaning and reflowing.



Antisplash Membrane with Wiper
Ref. CL0301

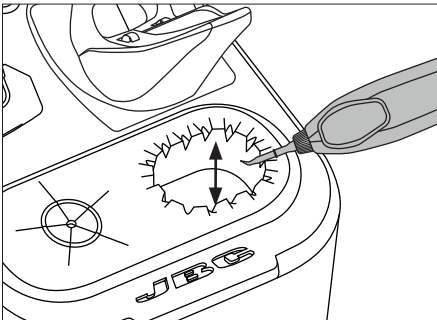
The antisplash membrane prevents splashing and keeps the work area clean.

Includes a temperature resistant wiper for removing excess solder by gently tapping or wiping the cartridge tip.

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

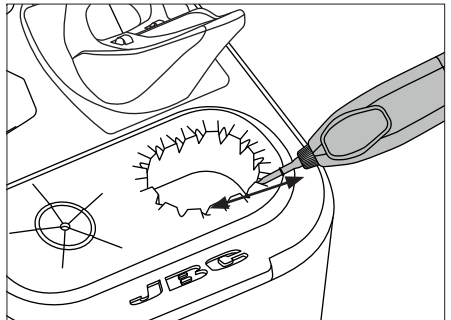
Wiper

Tapping



Tap gently to remove excess solder.

Wiping



Use the slots to remove remaining particles.

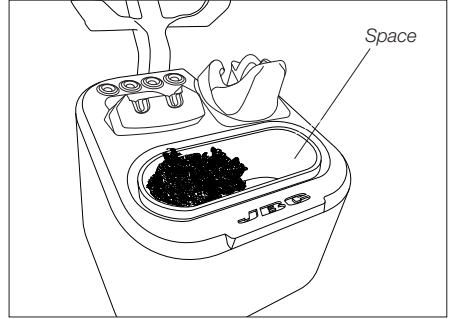
Replacing Brass Wool

1. Lifting



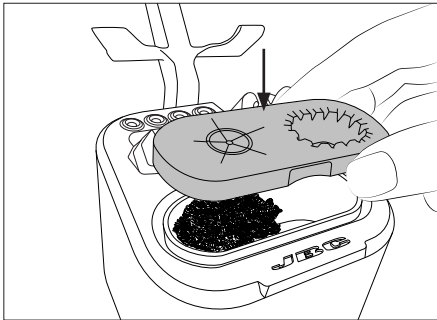
Lift and remove the antisplash membrane.

2. Replacing



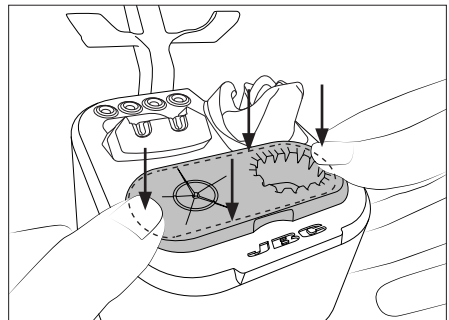
Replace the brass wool with a new one. Make sure that the brass wool is on the far left and that there is space for the wiper on the right.

3. Assembling



Assemble the antisplash membrane in vertical direction onto the stand.

4. Pressing on



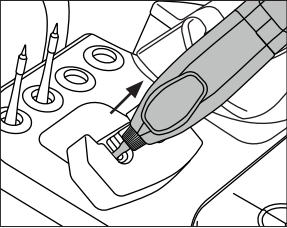
Press the antisplash membrane down. Make sure that the membrane is correctly inserted all around.

Note: The brass wool and the wiper position can be reversed by rotating the antisplash membrane 180 degrees

Cartridge Changer

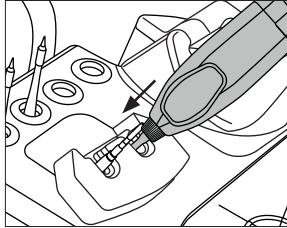
Save time and change cartridges safely without switching the station off.

1. Removing



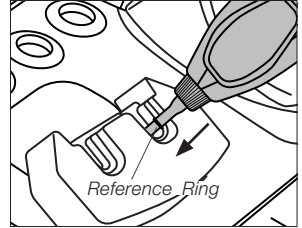
Place the tweezers with the cartridge in the extractor slot and pull to remove it.

2. Inserting



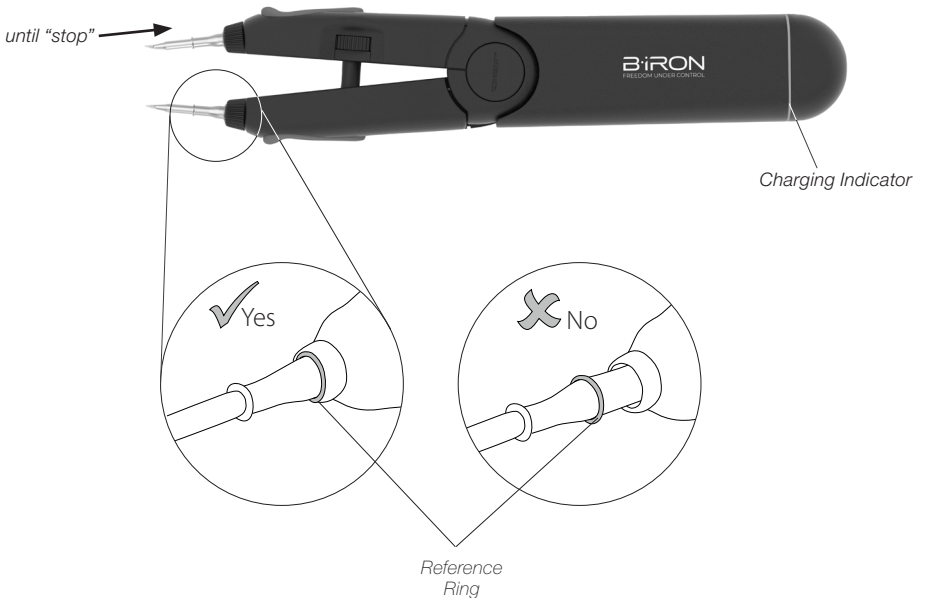
Place the tweezers on top of the new cartridge and gently push the tweezers down.

3. Fixing



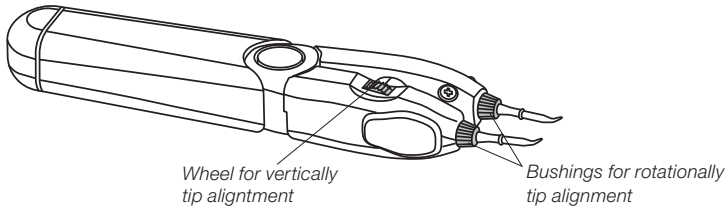
Place the tweezers with the cartridge in the slot, so that its reference ring rests in the slot, and gently press the cartridge into the tweezers*.

***Important:** Push the cartridge in as far as it will go, until the reference ring rests against the tweezers. The charging indicator light changes from red to green when the cartridge is properly inserted.



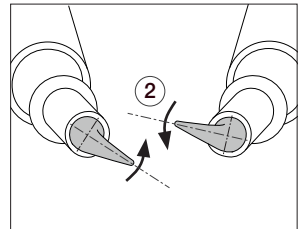
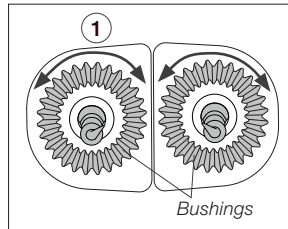
Cartridge Tip Alignment

B115T offers an intuitive cartridge tip alignment function. Cartridge tips can be rotationally and vertically aligned.



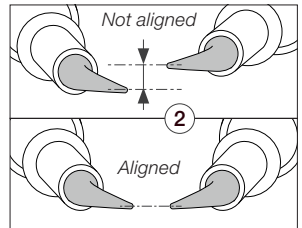
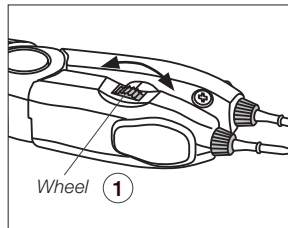
Rotationally Tip Alignment

Rotate the bushings slightly (1) to rotationally align the tips (2).



Vertically Tip Alignment

Rotate the wheel slightly (1) to vertically align the cartridge tips (2).



Compatible Cartridges

B115T works with C115 Cartridges. Find the model that best suits your soldering needs in www.jbctools.com



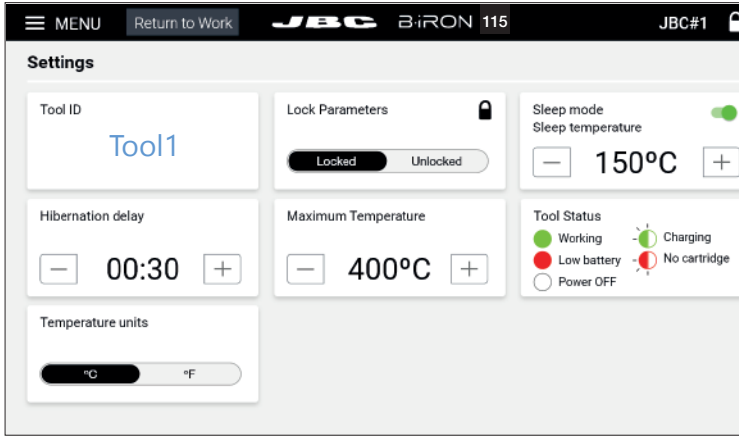
Tweezer Chisel

Tweezer
Conical Bent

Blade

Menu Settings

The B-iRON Console offers an intuitive user interface which provides quick access to station parameters.



Parameters

Parameter	Description
Tool ID	Allows to change the tool identifier.
PIN	Allows to change the PIN
Hibernation Delay	Set hibernation delay from 5 to 15 sec. Countdown starts when no movement is detected.
Sleep Mode / Sleep Temperature	Set sleep mode ON/OFF. The tip temperature will drop to the selected sleep temperature.
Maximum Temperature	Allows selection of the maximum temperature that can be set for the work mode
Tool Status	<p>The tool status light indicates as follows the tool status:</p> <ul style="list-style-type: none"> - Green: working / soldering - Green blinking: charging - Alternating red/green blinking: low battery, less than 20% - Red blinking: no cartridge - No color: power OFF

B·iRON Update

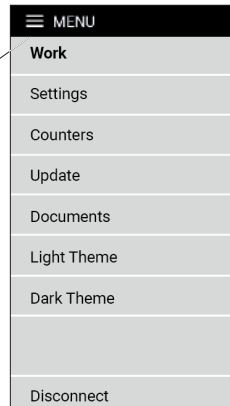
- Download the JBC update file from: <https://www.jbctools.com/jbcsoftware.html>
- Connect the console/device via USB connection to the PC.
- On the console/device notification bar at the top, open “USB Connection Settings” and select “MTP”.
- On the PC copy the downloaded file to “IT706/internal share storage/JBC”.
- Once copying is finished, disconnect the console/device from the PC.
- On the console/device open the Application (1) and then select “update” (2) on the Application Menu.

1

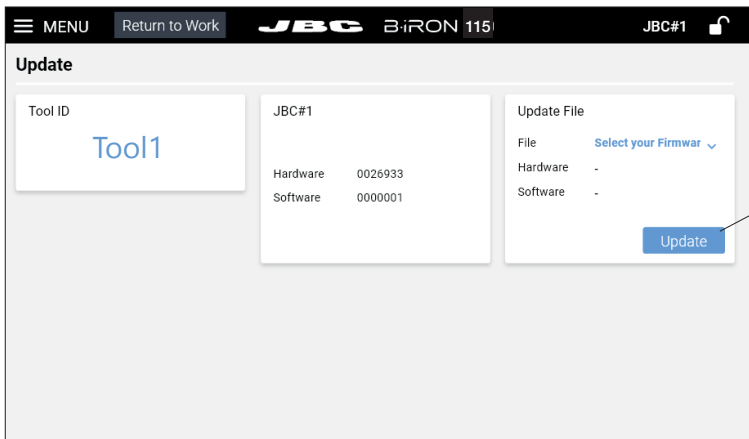


2

Application Menu



- Use the update button of the version to be downloaded.

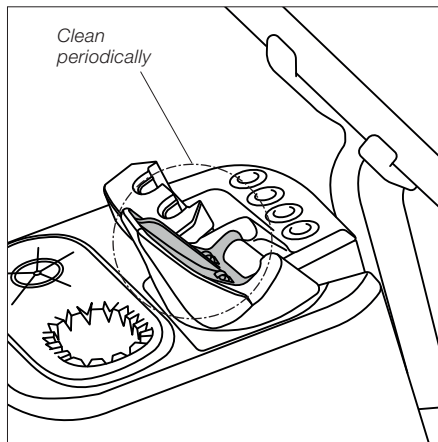
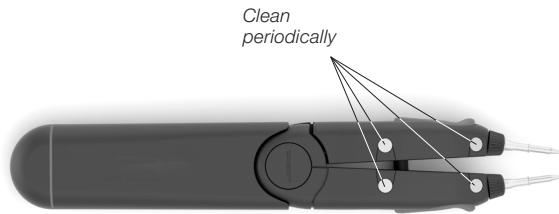


Update Button

Maintenance

Before carrying out maintenance, always extract the cartridge and disconnect de B-iRON from the mains. Allow the equipment to cool down.

- 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 charging works properly.
- 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.
- Do not use liquid such as alcohol, thinner or benzene to clean the console.
- 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. 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 charge the batteries.
- The soldering tip or nozzle, the metal part of the tool and the stand may still be hot even when the station is turned off.
- Do not leave the appliance unattended when it is on.
- Avoid flux coming into 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 must not be carried out by children unless supervised.
- Do not expose the console to high temperatures, humidity or dust. Avoid direct sunlight.
- Do not drop the console as it may cause damage or malfunction.
- Do not disconnect your device when it is in file transfer mode.
- Do not use the console in places where electronic devices are restricted.

Specifications

B-iRON 115T **Battery Tweezer Station**

With Console:

- Ref. **BI115TUA** 120 V - *N. America, Taiwan*
- Ref. **BI115TIA** 230 V - *India*
- Ref. **BI115TA** 230 V - *Europe*
- Ref. **BI115TKA** 230 V - *United Kingdom*
- Ref. **BI115THA** 230 V - *China*
- Ref. **BI115TJA** 100 V - *Japan*

Without Console:

- BI115TUQA** 120 V - *N. America, Taiwan*
- BI115TIQA** 230 V - *India*
- BI115TQA** 230 V - *Europe*
- BI115TKQA** 230 V - *United Kingdom*
- BI115THQA** 230 V - *China*
- BI115TJQA** 100 V - *Japan*

Stand:

- Input: 100 V - 240 V 50/60 Hz
- Power: 15 W
- Tool output: 12 V / 350 mA
- USB output: 5 V / 1000 mA

Tool:

- Output Peak Power: 5 W
- Battery: Li-Ion 7.4 V / 180 mAh
- Charge Time: 40 minutes
- Temperature Range: 200 - 450 °C / 390 - 840 °F
- Idle Temp. Stability (still air): ±1.5 °C / ±3 °F
- Temp. Accuracy: ±3% (Using reference cartridge)
- Connections: Bluetooth Low Energy (BLE)
- Ambient Operating Temp: 10 - 50 °C / 50 - 122 °F
- Tool Weight: 55 g / 0.12 lb

Console:

- Screen dimension: 7" / 7in

With Console

- Total Net Weight: 1462 g / 3.22 lb
- Total Package Dimensions/Weight:
(L x W x H) 265 x 223 x 160 mm / 2020 g
10.43 x 8.78 x 6.30 in / 4.45 lb

Without Console

- Total Net Weight: 998 g / 2.20 lb
- Total Package Dimensions/Weight:
(L x W x H) 225 x 223 x 160 mm / 1556 g
8.86 x 8.78 x 6.30 in / 2.34 lb

Complies with CE standards

ESD safe

Not grounded device. No ESD discharge feature.

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.



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