

www.jbctools.com

INSTRUCTION MANUAL



B·iRON 210 Precision Battery Soldering Station

This manual corresponds to the following references:

Console included*:

BI210UA 120 V - N. America, Taiwan BI210IA 230 V - India BI210A 230 V - Europe BI210KA 230 V - United Kingdom BI210HA 230 V - China BI210JA 100 V - Japan Console not included*: BI210UQA 120 V - N. America, Taiwan BI210IQA 230 V - India BI210QA 230 V - Europe BI210KQA 230 V - United Kingdom BI210HQA 230 V - China BI210JQA 100 V - Japan

Packing List

The following items are included:



Stand for B210 Precision B·iRON Tool 1 unit Ref. B210-SA





Precision B·iRON Tool1 unit Ref. B210-A

B-iRON Console 1 unit* Ref. 0030035







Cable USB 1 unit Ref. 0028092

Cartridge 1 unit Ref. C210001 (ø 0.3 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 - India
 0027382
 230V - Europe

 0027378
 230V - United Kingdom
 0027379
 230V - China

 0028103
 100V - Japan
 002
 002

Manual 1 unit Ref. 0027779

* included according to purchased station reference.

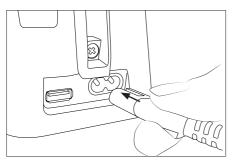


Features and Connections

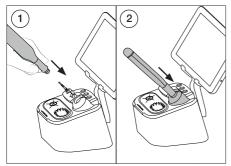


Quick Start

1. Connection



2. Cartridge Insertion and Charging



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

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 it for the first time.

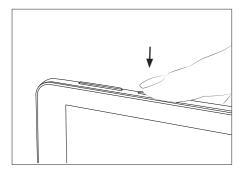


The status indicator light indicates as follows the tool status:

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

		JBG
Devices		
Tool ID	Fool1	Tool ID Tool2

Select the tool from the detection list.

Note: Furthermore, the App can be downloaded for Android devices from https://www.jbctools.com/ jbcsoftware.html and for Apple devices from Apple Store:



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 permantely 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.

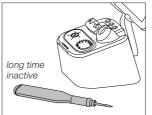
Note: When the tool is lifted from stand the Soldering System acts as follows:

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 Switch on the tablet screen (bottom right) to switch it off/on.

Tool Power Switch -

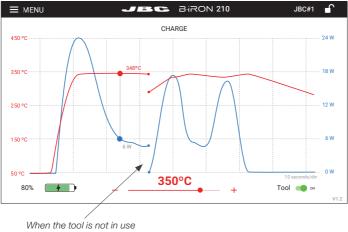


Graphics

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

The automatic recording can be paused by tapping the screen in the graphic 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.



the graphic stops recording

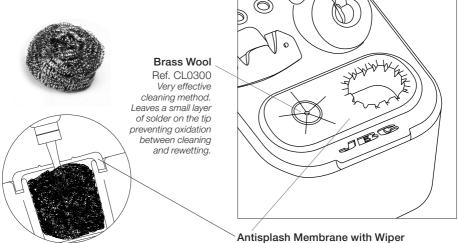
The graphic can be moved to the left and right by swiping the touch screen sideways with one finger.

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 graphics.

Tip Cleaner

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

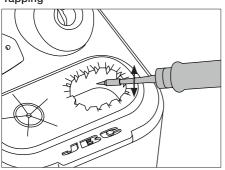


Ref. CL0301

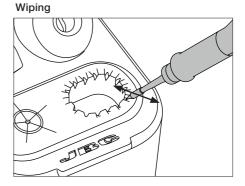
The antisplash membrane prevents splashing and keeps the work area clean.

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.



Tap gently to remove excess solder.



Use the slots to remove the remaining particles.

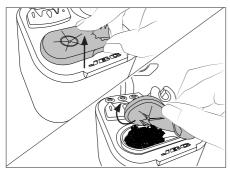
Wiper

Tapping



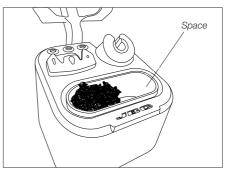
Replacing Brass Wool

1. Lifting



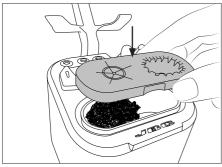
Lift and remove the antisplash membrane.

2. Replacing



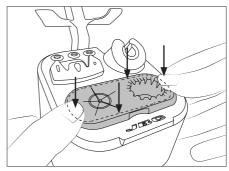
Replace the brass wool with a new one. Make sure that the brass wool is on the far left and that there is space for the wiper on the right.

3. Assembling



Assemble the antisplash membrane in a vertical direction onto the stand.

4. Pressing on



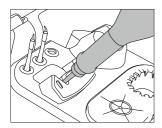
Press the antisplash membrane down. Make sure that the membrane is correctly inserted all around.

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

Cartridge Exchanger

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

1. Removing

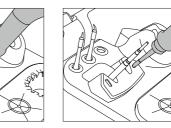


Place the handpiece in the extractor and pull to remove the cartridge.

2. Inserting

down slightly.

3. Fixing



Use the holes for fixing the cartridge.

*Important: Insert the cartridge up to the stop. The charging indicator light changes from red to green when the cartridge is properly inserted.

Place the handpiece on top of

the new cartridge and press



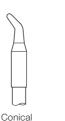
Compatible Cartridges

B 210 Precision Tool works with C210 Cartridges. Find the model that best suits your soldering needs at www.jbctools.com





Chisel



Bent

Bevel

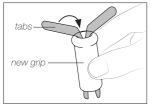


Changing the Grips

Foam grips for B115 and B210 tools can be exchanged.

Remove the worn grip and replace it easily with a new one by using slip-on tabs. To change the grips do as follows:

1. Inserting Tabs



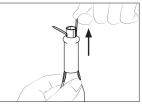
Put the slide-on tabs into the new grip.

2. Inserting Handle



Push the grip with the tabs onto the handle.

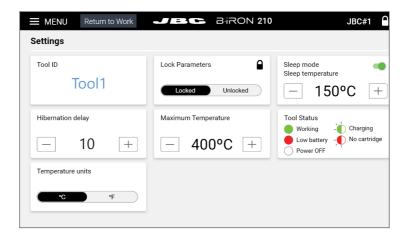
3. Removing Tabs



Hold the grip and pull the tab. Use pliers if necessary.

Menu Settings

The $B{\cdot}\text{i}\text{RON}$ 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. The 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 while charching.
Maximum Temperature	Allows selection of the maximum temperature that can be set for the work mode.
Tool Status	The tool status 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



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.

2 E MENU Work
Application Settings
Counters
Update
Documents
Light Theme
Dark Theme
Disconnect

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

MENU Return to Work	JBC BIRON 210	JBC#1	
Update			
Tool ID Tool1	JBC#1 Hardware 0026933 Software 0000001	Update File File Select your Firmwar v Hardware - Software - Update	Update Button

Maintenance

Before carrying out maintenance, always extract the cartridge and disconnect it 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 the 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 a 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 B115 Tool 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 the 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.



Notes



Specifications

B-iRON 210 Precision Battery Soldering Station

 With Console

 Ref.:
 Bl210UA
 120 V - N. America

 Ref.:
 Bl210IA
 230 V - India

 Ref.:
 Bl210A
 230 V - Europe

 Ref.:
 Bl210KA
 230 V - United Kingdom

 Ref.:
 Bl210HA
 230 V - China

 Ref.:
 Bl210JA
 100 V - Japan

Stand:

- Input:
- Power:
- Tool output:
- USB output:

Tool:

- Output Peak Power: - Battery: - Charge Time: - Temperature Range:
 Idle Temp. Stability (still air): Temp. Accuracy: Connections: Ambient Operating Temp: Tool Weight:
Console: Screen dimension:
<u>With Console</u> - Total Net Weight: - Total Package Dimensions/Weight: (L x W x H)
<u>Without Console</u> - Total Net Weight: - Total Package Dimensions/Weight: (L x W x H)
Complies with CE standards ESD safe Not grounded device. No ESD discharge feature.

Without Console BI210UQA 120 V - N. America, Taiwan BI210IQA 230 V - India BI210QA 230 V - Europe BI210KQA 230 V - United Kingdom BI210HQA 230 V - China BI210JQA 100 V - Japan

100 V - 240 V 50/60 Hz 20 W 12 V / 500 mA 5 V / 1000 mA

24 W Li-Ion 7.4 V / 180 mAh 30 minutes 200 - 450 °C / 390 - 840 °F ±1.5 °C / ±3 °F ±3% (Using reference cartridge) Bluetooth Low Energy (BLE) 10 - 50 °C / 50 - 122 °F 35 g / 0.08 lb

7" / 7in

1442 g / 3.18 lb 265 x 223 x 160 mm / 2000 g 10.43 x 8.78 x 6.30 in / 4.41 lb

978 g / 2.16 lb 225 x 223 x 160 mm / 1536g 8.86 x 8.78 x 6.30 in / 3.39 lb



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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