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Product
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INSTRUCTION MANUAL



B·IRON TWEEZERS

Battery-Powered Rework Station

This manual corresponds to the following references:

BIP-5A* - with Portable Display
BIP-5QA* - without Portable Display

** Depending on customer requirements, various power
cords are available, suitable for:
120V - N. America / Taiwan
230V - India / Europe / United Kingdom*

Packing List

The following items are included:



Charging-Base 1 unit
*With right-side charging-holder
and brass wool (inside) already
assembled.*



**Brass Wool for B-IRON
Charging-Base** 1 unit
Ref. CL0300
*Already assembled in the charging
base.*



Power Cord * 1 unit
Ref. 0027380 120V - N. America / Taiwan
0027381 230V - India
0027382 230V - Europe
0027378 230V - United Kingdom



C115 Cartridge 2 units
Ref. C115105 (tip $\varnothing$ 0.3 mm)



**C115 Cartridge
Adapters** 1 set
Ref. 0030643
*4 adapters, already fitted in the
charging base.*



**B-IRON Display Holder
5" to 7"** 1 unit
Ref. 0030723
Includes fixing knob.



Spanner 1 unit
Ref. 0035378



**Nano Tweezers
for B-IRON** 1 unit
Ref. BP-A
*Works with app version 1.7 and
higher*



**Cable USB-A to
USB-C **** 1 unit
Ref. 0032705



Portable Display 7" for B-IRON ** 1 unit
Ref. PDS-B

Quick Start Guide 1 unit

Manual 1 unit
Ref. 0034865

** One power cord included according to customer
requirements.*

*** Not included in ref. BIP-5QA.*

Important

Please read this manual and its safety guidelines thoroughly before using the product.



Note: Even if the display is turned off, the tool remains operational as long as the batteries are charged, even when the cartridge is removed.

The tool can be manually switched off and on by tapping the tool power button on the display (see page 9).

The tool turns off automatically only under the following conditions:

- The tool is out of the charging holder (without safety cap on) and remains completely still for 5 minutes (see page 8).
- The tool has the safety cap on and remains completely still for 60 minutes (see page 9).
- The tool is in the charging holder and the charging base is disconnected from the mains.

Features and Connections



* Not included in ref. BIP-5QA

Features and Connections



* Not included in ref. BIP-5QA

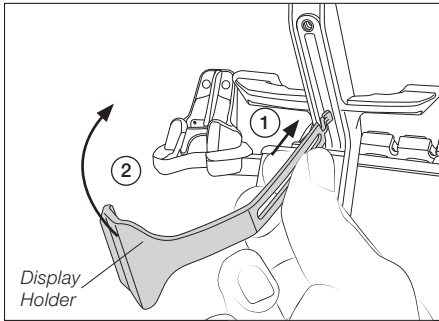
ESD Safe Connection

Note: All B-IRON components comply with CE standards, but the tool by itself is not grounded. Therefore, to comply with ESD regulations, the user of the B-IRON tool must be ESD-compliantly grounded.

JBC offers ESD tablemats, earthing cables, plugs and wristbands. More info on www.jbctools.com.

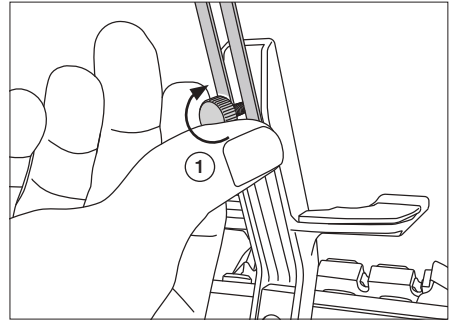
Station Setup

Display Holder Assembling



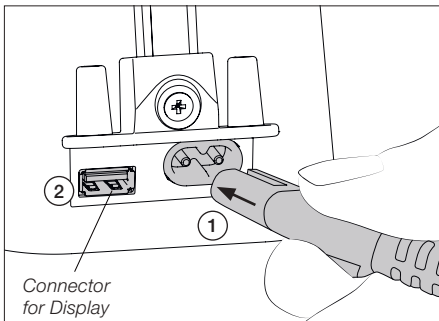
Insert the thin end of the display holder into the upper area of the rear rail of the charging base (1). Then carefully rotate the display holder 90 degrees (2) until it stands vertical.

Display Holder Setting



Insert the fixing knob (1) and tighten it just enough so that it stays in place but the display holder can be moved.

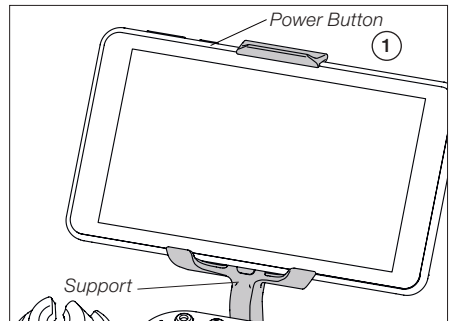
Base and Display Connection



Connect the charging base to the mains (1).

The display can be connected to the USB port (2) with the provided USB cable to keep it charging while working.

Display Placing



Place the display on the support with its buttons facing upwards (1). Adjust the height of the display holder tighten the fixing knob.

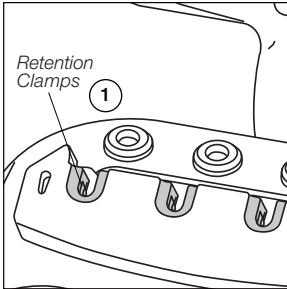
Turn on the display by holding down the power button for a while (1) and then open the B-IRON app*:



*** Note:** The app can also be downloaded to your own devices. To know how, see section “Installing and Updating the B-IRON App”.

Station Set Up *(continuation)*

Cartridge Exchanger

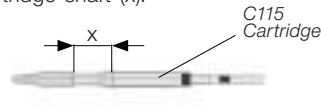


The cartridge exchanger allows inserting / changing cartridges safely without switching the tool off. Cartridges are held in place thanks to the retention clamps (1).

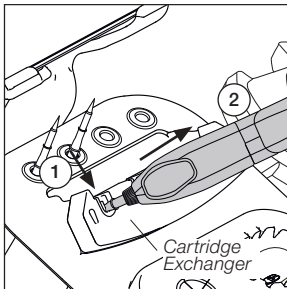
The exchanger is suitable for C115 and C210 cartridges.

C115 Cartridges

The holding area of C115 Cartridges is delimited by the two rings at the cartridge shaft (x).



Cartridge Changing

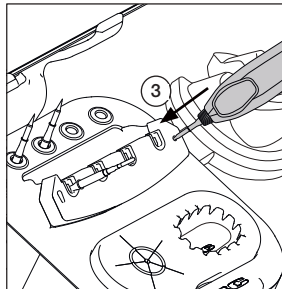


Place the tool with the cartridge over the cartridge exchanger slots and press down (1) until it clicks. To remove the cartridge pull the handle out (2).

To insert a cartridge, carry out the same steps as before in reverse order.

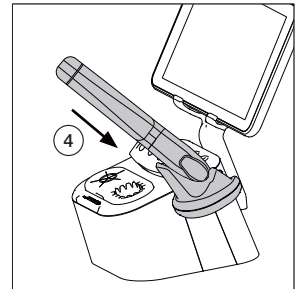
Note: Cartridges must be inserted up to the first ring for proper connection and functioning.

Cartridge Fixing



Gently press the tip against the holes on the sides of the cartridge exchanger (3) to ensure that the cartridge is appropriately inserted.

Tool Charging



Place the tool in the charging holder (4) to charge it. A beep will sound when the tool is properly placed and charging. The volume can be adjusted using the left button on the display.

Important: Charge the tool completely before using it for the first time.

A full charge takes:

- 30 min for B-100
- 60 min for B-500
- 30 min for B-NANO
- 45 min for B-TWEEZERS



Compatible Cartridges

B-TWEEZERS works with C115 Cartridges. Find the model that best suits your soldering needs on www.jbctools.com



Conical Bent



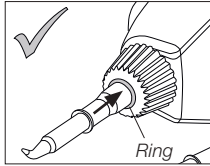
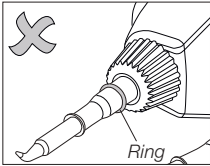
Chisel



Blade

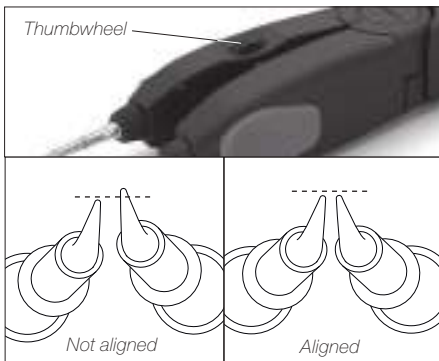
Inserting C115 Cartridges

Push the cartridges inside the tweezers until the first ring rests against the tool.



Horizontal Cartridge Alignment

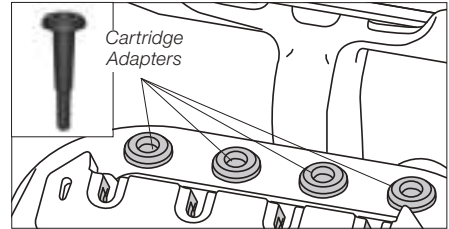
Close the tweezers and use the thumbwheel on the tool to slightly adjust the cartridges so that they are horizontally aligned.



C115 Cartridge Adapters

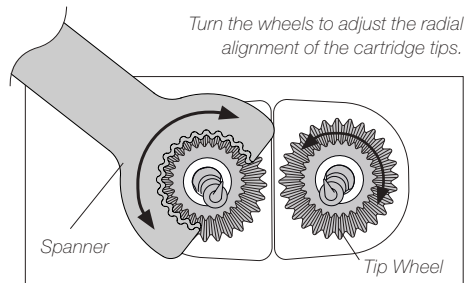
(Ref. B0643 includes 4 adapters)

Since C115 Cartridges have a smaller diameter than C210 Cartridges, adapters must be used to store them in the cartridge holder. These adapters must simply be inserted from above into the slots of the cartridge holder.

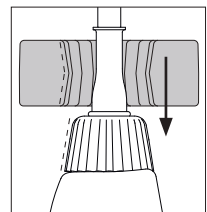


Radial Cartridge Alignment

The tips can be aligned radially using the wheels. It is recommended to use the spanner to do this. **Important:** If operating the wheels with your fingers, the tool must be switched off. Take care, the cartridges may still be hot.



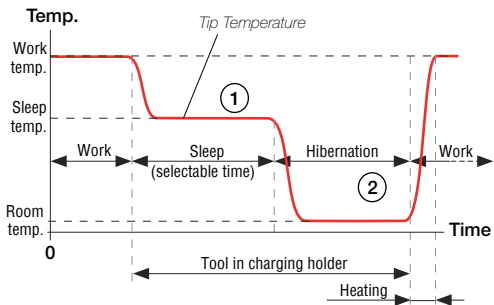
Note: The teeth of the spanner have the same inclination as the cone of the tip wheel. The spanner can be used from both sides, although it can only be inserted vertically.



Operation

Thanks to the intelligent heat management, the cartridge tip recovers temperature extremely quickly. This allows reducing the tip temperature when the device is not in use, resulting in a longer tip lifespan.

When the tool enters Sleep (1) or Hibernation (2) Modes, the tip temperature lowers automatically below the solder-melting-point temperature.



Tool Status

Tip Temperature

The tool can go into a number of statuses under different circumstances (see the diagram on the next page). Depending on the status, the cartridge tip reaches different temperatures:

Tool Status	Tip Temperature
Sleep and charging	Cools down to the set Sleep temperature. Selectable between 70 °C and 150 °C.
Hibernation and charging	Cools down to room temperature.
Working	Heats up to the set work temperature.
Resting without cap	Cools down to room temperature (after 5 min of being completely still).
Tool with cap on	Cools down to room temperature.
Hibernation	Cools down to room temperature.
Shut off	Remains at room temperature (tool is shut off).

Sleep and Charging

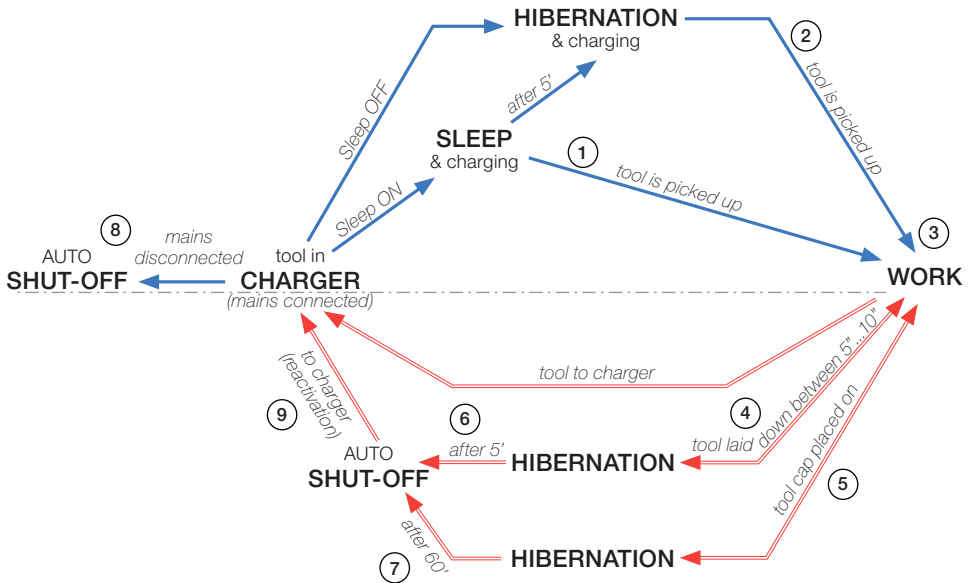
Sleep Mode can be activated/deactivated (1). If it is activated and the tool is placed in the charger, the tip cools down to sleep temperature and the tool keeps charging.

Hibernation and Charging

If Sleep Mode is not activated and the tool is placed in the charger, it goes into Hibernation. The tip cools down to room temperature and the tool keeps charging.



Tool Status *(continuation)*



Work

When the tool is taken out of the charger while in Sleep (1) or Hibernation (2) Modes, the cartridge tip heats up to the set work temperature and the tool is ready to use (3).

Hibernation

The tool goes into Hibernation Mode in two different cases:

- After working, when the tool is laid down (4) and is resting between 5 and 10 seconds (time is adjustable).
- After working, when placing the cap on the tool (5).

Note: Before the tool enters Hibernation Mode, it can be picked up to work with it and the cartridge tip heats up to work temperature.

Auto Shut-off

The tool shuts off automatically in three different cases:

- When the tool (without the tool cap) is laid down and remains completely still in Hibernation Mode for 5 minutes (6).
- When the tool (with the tool cap on) remains completely still in Hibernation Mode for 60 minutes (7).
- When the tool is in the charger and the charging base is disconnected from the mains (8).

Tool Status *(continuation)*

Tool Reactivation

Once the tool has automatically shut off, place it back in the charging holder (9) to reactivate it (see diagram on previous page).

Manual Tool Shut-Off

Besides the “automatic shut-off” feature, the tool can also be manually switched off by tapping the tool power button on the display. When it is switched off, the cartridge cools down to room temperature.

Note: To switch the tool back on, tap the same button on the display.



Tool On/Off Button

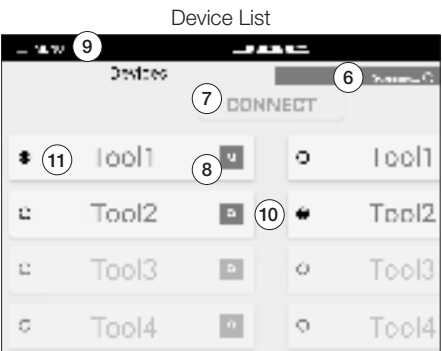
Tool Connection

Make sure that the charging base is connected to the mains.

Note: Tools supplied with a station are already connected to the station.

Scanning another tool *(this process can take a while):*
Place the tool in the charging holder to activate it. The status light band color indicates the charge level (see table below).

If the scanning process does not run automatically, tap “scan” (6) on the display while the tool remains in the charging holder. When the tool is shown in the device list on the display, select it (11) and tap “connect” (7). Now the tool is ready for soldering.



Tool search function:

When in doubt of which tool corresponds to the tool's name, use the tool search function. Tap on the magnifying glass symbol (8) next to the tool's name. The light band on the corresponding tool blinks in blue for five seconds to identify it.

Working with two tools *(works also for charging bases with only one charging holder):*

It is possible to connect up to two tools at the same time. If a tool is already connected, first disconnect it from the device by selecting “Menu” (9) and tapping on “Disconnect”.

Place the second tool in the charging holder and scan it (6). The second tool is also shown in the device list on the display (10). To work with two tools, select one from the left-hand column (11) and the other one from the right-hand column (10). Then tap on “connect” (7).

Status Lightband

The status lightband on the tool indicates its status (see table on the right).



Color	Tool Status
Green	More than 50% charged
Orange	Between 20% and 50% charged
Red	Less than 20% charged
Green blinking	Charging (more than 50% charged)
Orange blinking	Charging (between 20% and 50% charged)
Red blinking	Charging (less than 20% charged)
No color	Safety cap on the handle and/or power off
Blue blinking	Locate Tool function activated

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 attempt to dismantle or open the housing of the tool as it may cause damage.
- Do not work on electrically live parts.
- The tool should be placed in the charging holder when not in use in order to charge the batteries.
- The soldering tip, the metal part of the tool and the charging holder may still be hot even when the station is turned off.
- Do not leave the 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 portable display to high temperatures, humidity or dust. Avoid direct sunlight.
- Do not drop the portable display or the tool, as it may cause damage or malfunction.
- Do not disconnect your device when it is in file transfer mode.
- Do not use the portable display in places where wireless communications are restricted.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Warranty

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labor.

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.

If you register, you will receive e-mail notifications about new software updates for your registered product.



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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