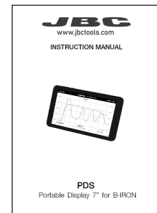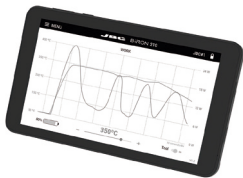# JBC

INSTRUCTION MANUAL

PDS
Portable Display 7" for B·IRON

This manual corresponds to the following references:

PDS-B

Packing List

The following items are included:

Portable Display 7"
for B·IRON .... 1 unit

USB Cable
(USB-A to USB-C) .... 1 unit
Ref. 0031846

Manual .... 1 unit
Ref. 0032488

Features and Connections
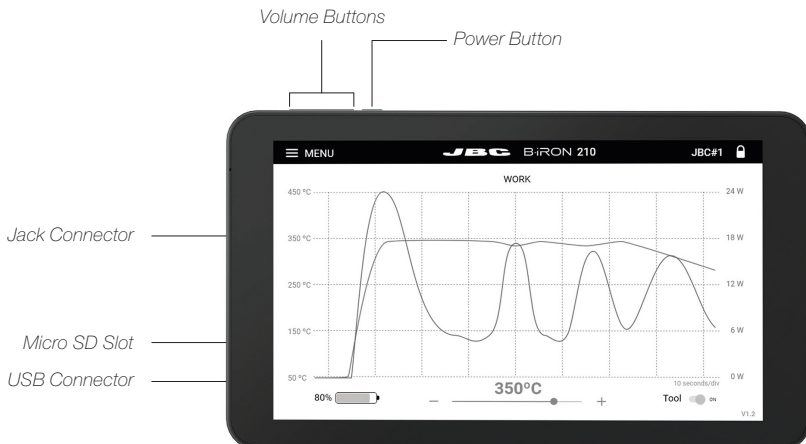
PDS
Portable Display 7" for B·IRON

Features and Connections

PDS
Portable Display 7"
for B·IRON

Bluetooth Connection

B·IRON Display Holder 5" to 7"

Display Support

USB Cable Ref. 0028092

B·IRON Tool

USB Connector

Power Socket
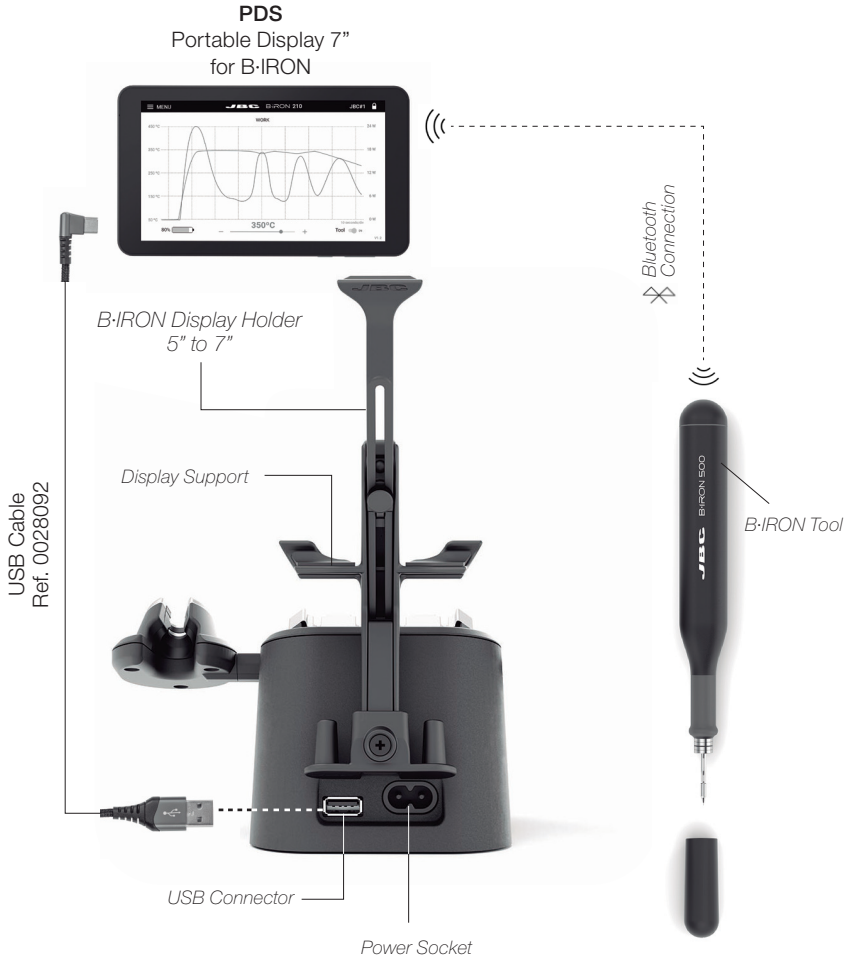
Station Setup

1. Display Holder Assembling
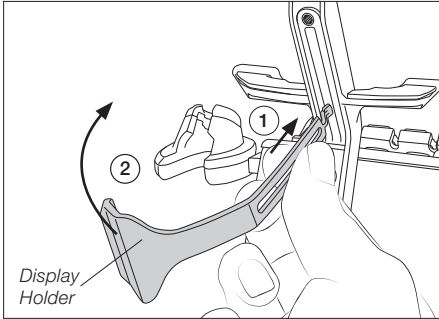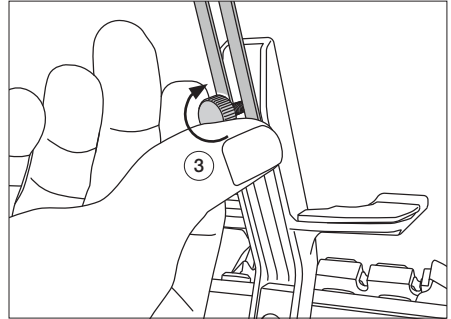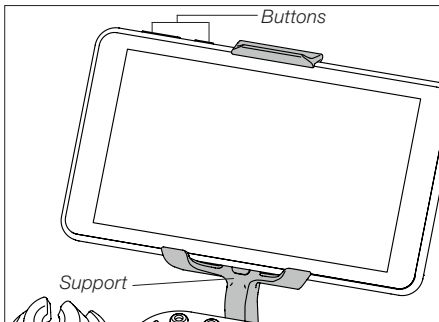

Display Holder

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.

2. Display Holder Setting

Insert the fixing knob (3) and tighten it just enough so that it stays in place but the display holder can be moved.

3. Display Placing

Buttons

Support

Place the display on the support with its buttons facing upwards and adjust the height of the display holder.

Once the display holder is at the right height, tighten the fixing knob completely to fix the display in place.

4. Base Connection / Display Connection

Connector for Display
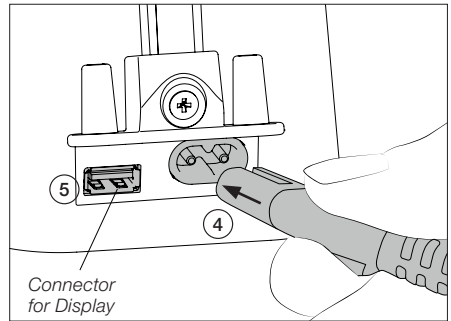
Connect the charging base to the mains (4).

If needed, the display can be connected to the USB port (5) with the provided USB cable to keep it charging while working.

5. Turning on the Portable Display

Power Button

Turn on the display by holding down the power button for a while 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".
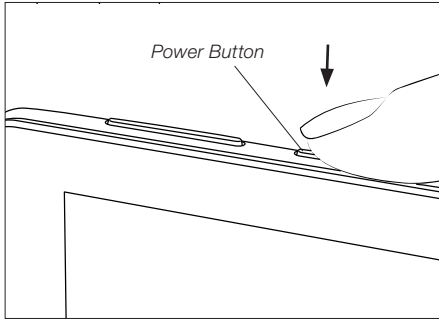
6. Tool Selection

Make sure that the charging base is connected to the mains.
Note: The supplied tool is already connected.

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.

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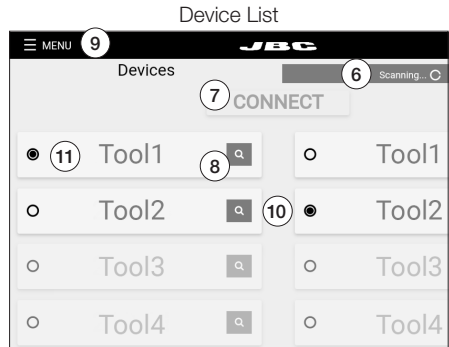
Tool search function:
When in doubt of which tool corresponds to the tool's name, use the tool search function. Tap on the magnifying glass symbol (8) next to the tool's name. The light band on the corresponding tool blinks in blue for five seconds to identify it.

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).

Workscreen

The workscreen shows a graph of the tip temperature and power supplied to the tip updated in real time. It allows modifying the tool working temperature, checking the battery status and turning the tool in use on and off.

Temperature and Power Graph

Temperature Scale

Working Temperature Selection Slider

Power Scale
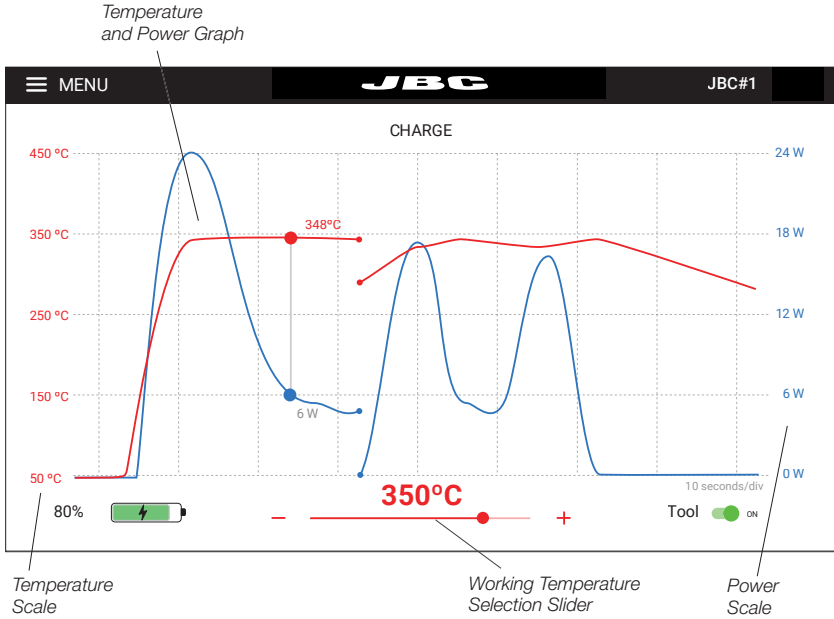
Graph and Automatic Data Display

The graphs of temperature and supplied power start automatically as soon as the tool is lifted from the charging base.

The graph display can be paused while working by tapping the screen on the graph area. While the automatic display is on hold, the temperature/power values can be checked at a certain point of the graph by tapping on the desired position on the display screen.

Note: Pausing the automatic display by tapping on the screen does not stop the tool from heating up, and the tip will remain at the selected working temperature. The graph display automatically continues after 5 seconds.
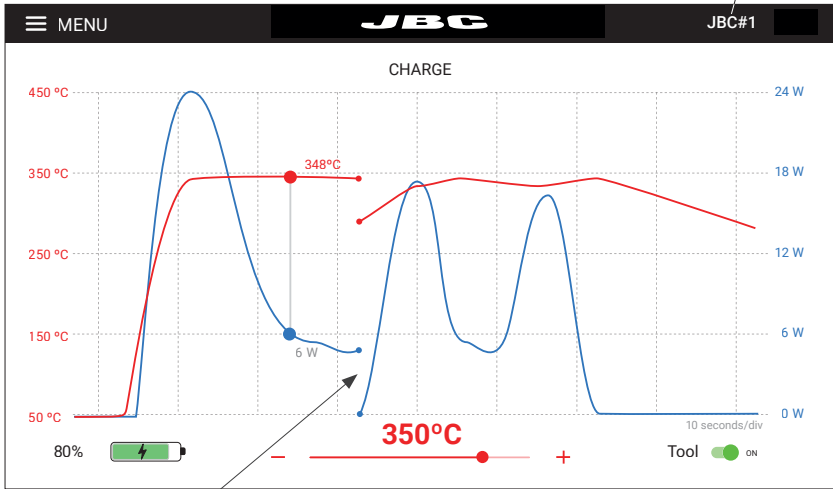
The graph can be moved to the left and right by swiping the touch screen sideways with one finger.

Working Temperature Modification

The working temperature can be modified using the slider below the graph (± 5 ºC / ± 10 ºF).

Workscreen *(continuation)*

Connected Tool and Tool
Selector

When the tool is not in use the graph stops recording

Stopping Data Display

When the tool is placed in the charging holder or when it enters Hibernation Mode, the data display stops.

The display starts again automatically when the tool is lifted from the tool holder and the graph is automatically displayed again at the point where the previous display stopped, leaving a small gap on the graph between the last registered value and the new starting point.

Working with Two Tools

When working with two tools, to switch between the two graphs, tap on the tool selector (upper-right corner of the display) and select the desired tool from the drop-down menu.
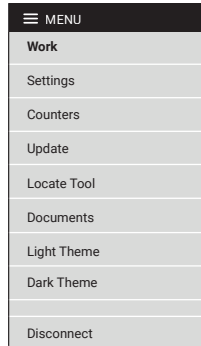
It is also possible to alternate both graphs by simply lifting one tool or the other from the tool holder. The display will automatically show the graph and information of the tool in use.

Note: All menu items are explained in detail starting at section "Menu".

Menu

Tool Connected:
Once at least one tool has been linked, the menu expands and shows more options.

☰ MENU
Work
Settings
Counters
Update
Locate Tool
Documents
Light Theme
Dark Theme
Disconnect

No Tool Connected:
Before any tool is connected to the station or after the last tool has been disconnected, the menu offers these options.

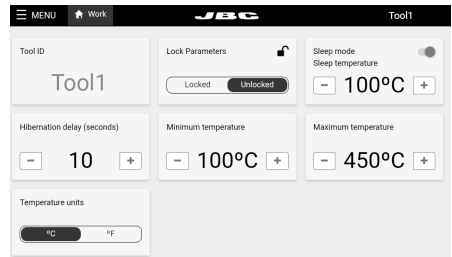| ☰ MENU |
|---|
| **Devices** |
| Documents |
| Light Theme |
| Dark Theme |
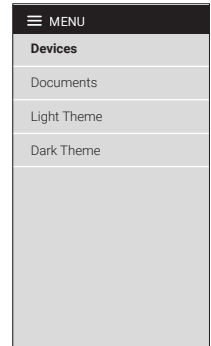
Work:
Takes the user to the workscreen (see section "Workscreen").

Settings:
The B·IRON app offers an intuitive user interface, which provides quick access to several station parameters (see next page).

☰ MENU 🏠 Work	JBC	Tool1
Tool ID	Lock Parameters 🔓	Sleep mode
Tool1	Locked Unlocked	Sleep temperature
		− 100ºC +
Hibernation delay (seconds)	Minimum temperature	Maximum temperature
− 10 +	− 100ºC +	− 450ºC +
Temperature units		
ºC ºF		

Counters:
The Counters section allows the user to consult data and counts on charges, Work Mode periods, Sleep Mode periods, errors... The data can be consulted either by time periods or by number of times a certain event has occurred.

Update:
Allows updating the firmware of the soldering station. To know more about the updating process, see section "Updating the Firmware".

Locate Tool:
When in doubt of which tool corresponds to the tool's name, use the tool search function, tapping on "Locate Tool". The light band on the corresponding tool blinks in blue for five seconds to identify it.

Documents:
User manuals related to the station or to the tools can be consulted in this section or on JBC's website: www.jbctools.com

Light/Dark Theme:
Allows the user to switch between dark and light display modes.

Disconnect:
Disconnect the tool in use. If only one tool is connected, after disconnecting it, the app returns to the device list display.

Settings

Parameter	Description
Tool ID	Allows modifying the tool identifier.
Lock parameters	Allows locking the parameters of the station using a four-digit code. The default code is 0105, but a new code can be set by simply entering some other four digits of choice when locking the parameters.
Sleep Mode / Sleep temperature	Set Sleep Mode on/off. The tip temperature drops only to the selected Sleep temperature when placed on the tool holder.
Hibernation delay	Set Hibernation delay from 5 to 15 sec. The countdown starts when the tool remains inactive (no movement).
Minimum temperature	Select the minimum temperature that can be set for Work Mode.
Maximum temperature	Select the maximum temperature that can be set for Work Mode.
Temperature units	Allows changing the units of temperature measurement between degrees Celsius and degrees Fahrenheit.

JBC Software

The app is already installed on JBC's B·IRON Display. If another display is to be used, the app must be downloaded to the corresponding display (see chapters below).

At the moment of purchasing the B·IRON tool, the current firmware is already downloaded to the tool.

Note: Since the tool firmware is not updated automatically, updates must be carried out by the customer. To do so, follow the instructions on www.jbctools.com/software.html

App Versions

If an app with version 1.6 or higher is already installed on the display (tablet or smartphone) used with B·IRON, the firmware of the tool can be updated directly without updating the app. Carry out the steps described in section "B·IRON Tool Firmware Update".

Older app versions must be updated. If no app has been installed, it must be installed first.

App Installation

On **JBC's portable display** *(Android),* the B·IRON app is already installed.

On the **user's smartphone or tablet** *(Android / iOS)*, go to the App Store/Play Store and search for "JBC B.IRON" on the search bar. **Note:** Internet connection is required to download the app.

Alternatively, scan these QR codes to access the B·IRON app page directly:

App Update

Display with internet connection *(Android / iOS)*

Update the app using Google Play *(Android)* or the App Store *(iOS)*.

Display without internet connection *(Android)*

Download JBC's installer program to another device with an internet connection from JBC's website: https://www.jbctools.com/jbcsoftware.html

Then copy the downloaded program to the internal storage of the display used with B·IRON. Access the internal storage of the display and run the downloaded program. Once the program is completed, the app will be updated to its newest version.
Note: For JBC´s displays, swipe down to open the internal storage folder.
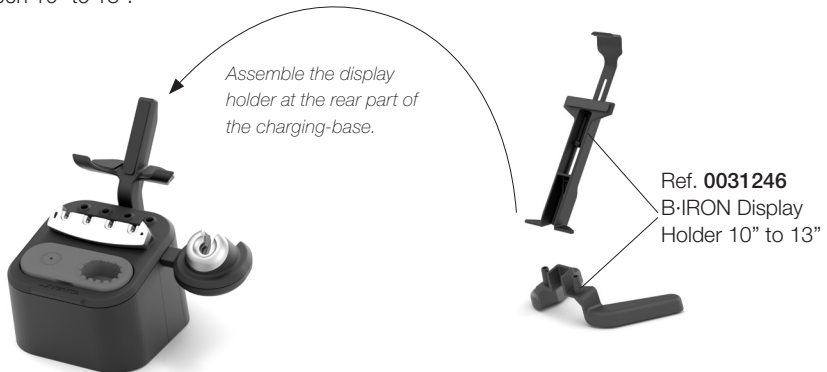
Accessories

B·IRON soldering stations can be accessorized with some additional components specifically designed for them.

For more information on the entire B-IRON product range that goes beyond the information in this manual, please visit www.jbctools.com.

Display Holder

In addition to the display holder supplied with the B·IRON station, JBC offers a holder for tablet sizes between 10" to 13".

Assemble the display holder at the rear part of the charging-base.

Ref. **0031246**
B·IRON Display
Holder 10" to 13"

Maintenance

Before carrying out maintenance, always extract the cartridge from the tool and disconnect the charging stand 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 tool charger are clean so that the charging works properly.

- Keep 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 liquids such as alcohol, thinner or benzene to clean the tablet.

- Repairs should only be performed by a JBC authorized technical service.

Clean the contact surfaces regularly to ensure that the tool gets charged correctly

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

Notes

Specifications

PDS
Portable Display 7" for B·IRON
Ref.: **PDS-B**

- Screen dimensions: 7" / 7 in

- Total Net Weight: 290 g / 0.64 lb
- Total Package Dimensions/Weight: 245 x 185 x 45 mm / 533 g
  (L x W x H) 9.65 x 7.28 x 1.77 in / 1.18 lb

Complies with CE standards.
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.
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.

CE EAC UK CA

www.jbctools.com