



www.jbctools.com

Product
webpage



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:



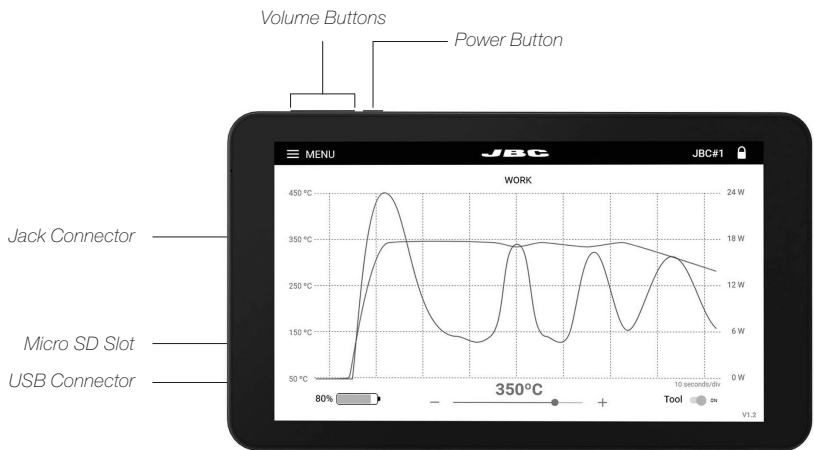
Portable Display 7"
for B-IRON 1 unit

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

Manual 1 unit
Ref. 0032488

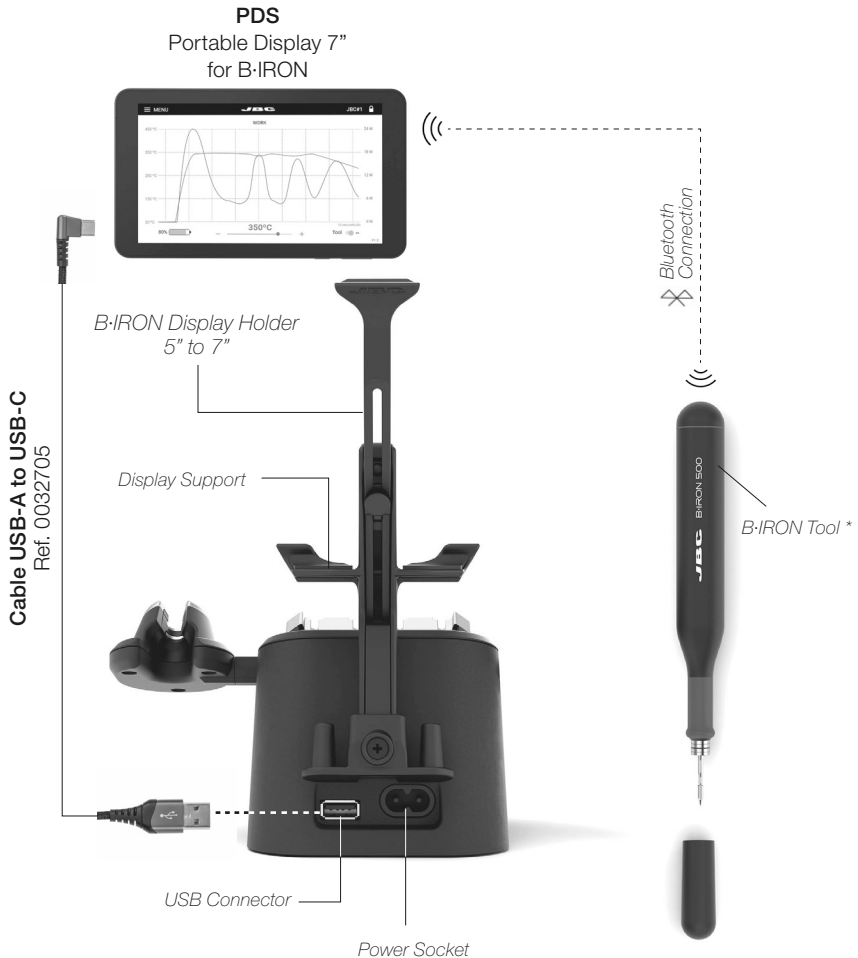
Features and Connections

PDS is designed to work with JBC's battery powered B-IRON station range.



PDS
Portable Display 7" for B-IRON

Features and Connections



* Not included, sold separately.

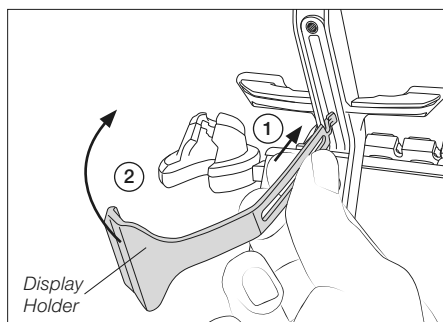
ESD Safe Connection

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 a B-IRON tool must be ESD-compliantly grounded.

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

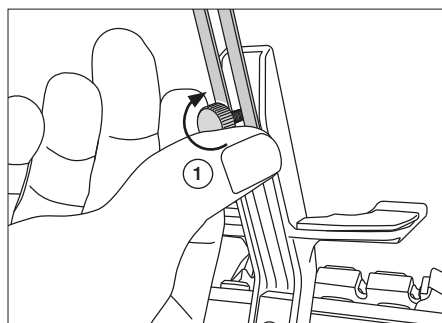
Station Setup

Display Holder Assembling



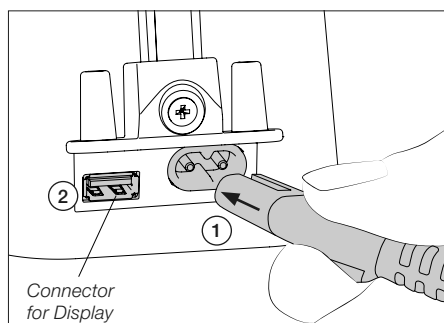
Insert the thin end of the display holder into the upper area of the rear rail of the charging base (1). Then carefully rotate the display holder 90 degrees (2) until it stands vertical.

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.

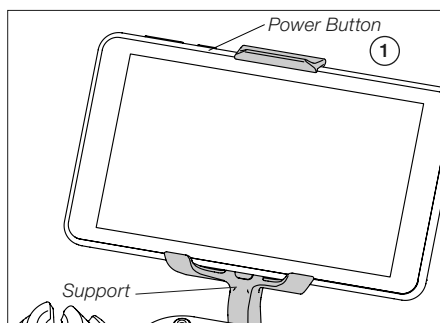
Base and Display Connection



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”.

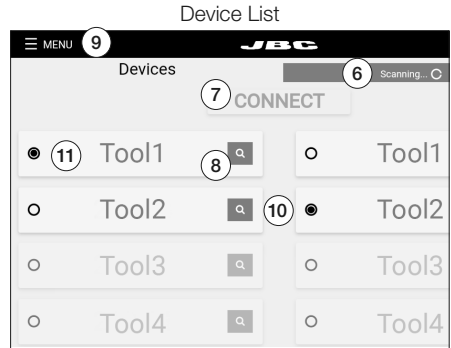
Tool Connection

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

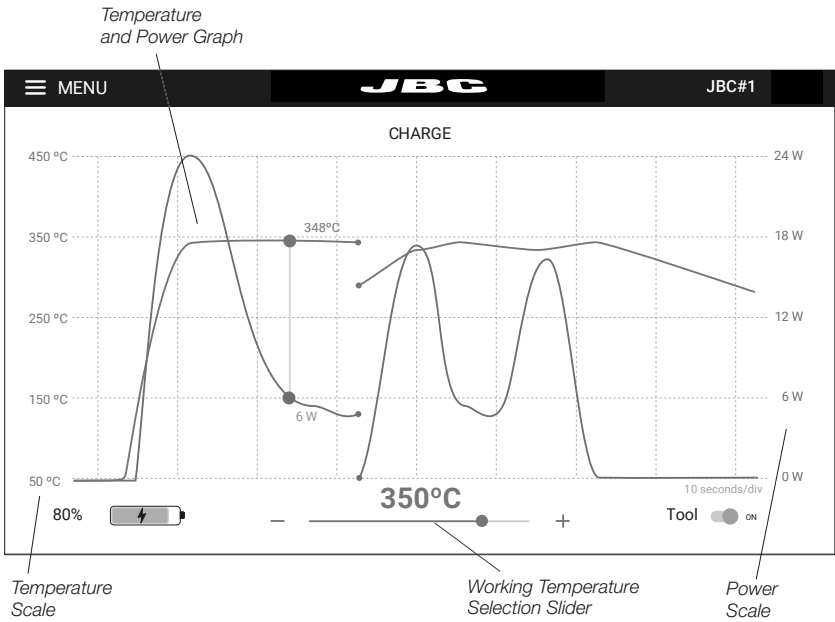
(works also for charging bases with only one charging holder):

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).

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.



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.

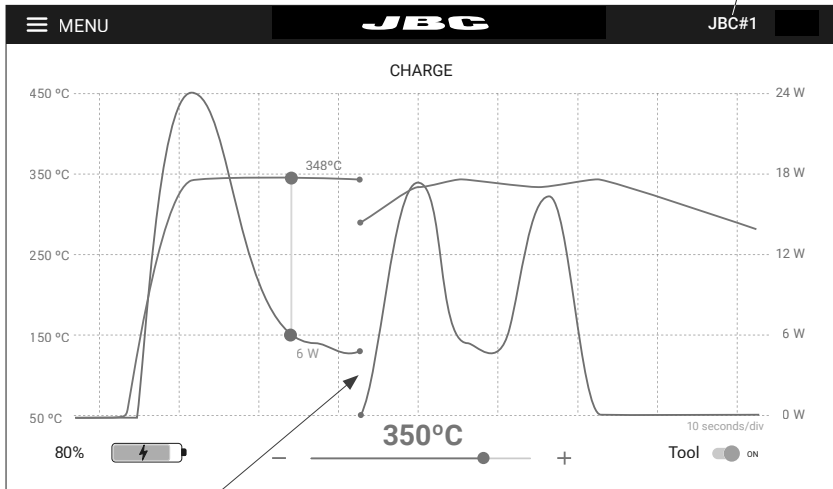
The graph can be moved to the left and right by swiping the touch screen sideways with one finger.

Working Temperature Modification

The working temperature can be modified using the slider below the graph ($\pm 5\text{ }^{\circ}\text{C}$ / $\pm 10\text{ }^{\circ}\text{F}$).

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.

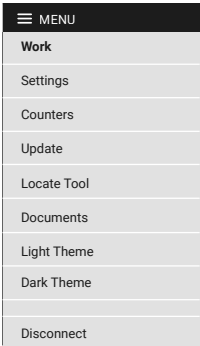
It is also possible to alternate both graphs by simply lifting one tool or the other from the tool holder. The display will automatically show the graph and information of the tool in use.

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

Menu

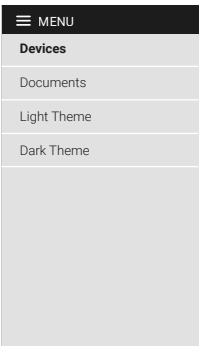
Tool Connected:

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



No Tool Connected:

Before any tool is connected to the station or after the last tool has been disconnected, the menu offers these options.

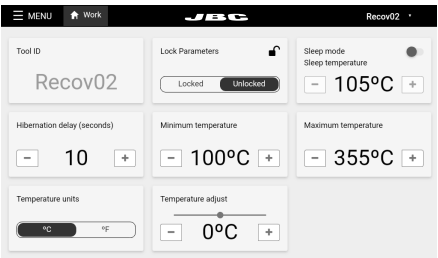


Work:

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).



Counters:

The Counters section allows the user to consult data and counts on charges, work state 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	Define the minimum selectable working temperature.
Maximum temperature	Define the maximum selectable working temperature.
Temperature units	Allows changing the units of temperature measurement between degrees Celsius and degrees Fahrenheit.

JBC Software

No installation or initial download are required for newly purchased JBC products. Both JBC display and tools come with its current software/firmware installed and updated, and are ready to use.

Note:

App: If a third-party display (tablet or smartphone) is used, the B-IRON app must be downloaded from JBC's web page and installed on the device.

To do so, follow the instructions on www.jbctools.com/software.html.

App Versions

Make sure that the required app version is installed on the display (tablet or smartphone):

- Handles require app versions **1.6** or higher.
- Tweezers require app versions **1.7** or higher.

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 via 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 the latest version.

Note: For JBC displays, swipe down to open the internal storage folder.

Maintenance

- Charge the display under the following conditions:
 - Before its first use, to make sure the display is fully charged.
 - The battery power icon indicates “no power”.
 - The display automatically shuts off.
 - Operation buttons are not responsive.
- Do not disconnect the display during an ongoing upload or download process when the display is in file transfer mode. This could cause an app error.
- USB connection is used only for data transfer.
- The display can be cleaned with a damp cloth. Do not use alcohol, thinner or benzene to clean it.
- Maintenance must not be carried out by children unless supervised.
- Repairs should be performed only by a JBC authorized technical service.

Safety



It is imperative to follow safety guidelines to prevent mal function or accidents.

- Do not expose the portable display to high temperatures, humidity or dust. Avoid direct sunlight.
- Do not drop the portable display, as it may cause damage or malfunction.
- Do not use the portable display in places where wireless communications are restricted.
- Do not disassemble the display.
- The display is not waterproof.
- Keep your workplace clean and tidy. Wear appropriate protection when working to avoid personal harm.
- This appliance can be used by children over the age of eight and also people 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.

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:
(L x W x H) | 245 x 185 x 45 mm / 533 g
9.65 x 7.28 x 1.77 in / 1.18 lb |

Complies with CE standards.

ESD Safe (to comply with ESD requirements, see page 3).

JBC

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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