



www.jbctools.com

INSTRUCTION MANUAL



NANE

2-Tool Nano Soldering Station

This manual corresponds to the following references:

- **NANE-9C** (100V)
- **NANE-1C** (120V)
- **NANE-2C** (230V)

Packing List

The following items are included:



**2-Tool Nano
Control Unit** 1 unit



Nano Handle 2 units
Ref. NT115-A



**Cabel Collector
and Stand** 2 units
Ref. CC2002



Brass Wool 1 unit
Ref. CL6210



Metal Brush 1 unit
Ref. CL2466



Power Cable 1 unit
Ref. 0024092 (100V)
0023715 (120V)
0023714 (230V)



Ref. 0020952
includes:
Ref. C115-101 x1
C115-103 x1
C115-107 x1
C115-112 x1

Ref. 0020953
includes:
Ref. C115-105 x2
C115-113 x2

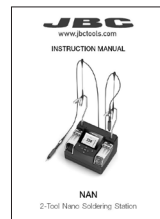
**Cartridge
dispenser Case** 2 units
Ref. 0020952 / Ref. 0020953



Allen key 1 unit
Ref. 0009848

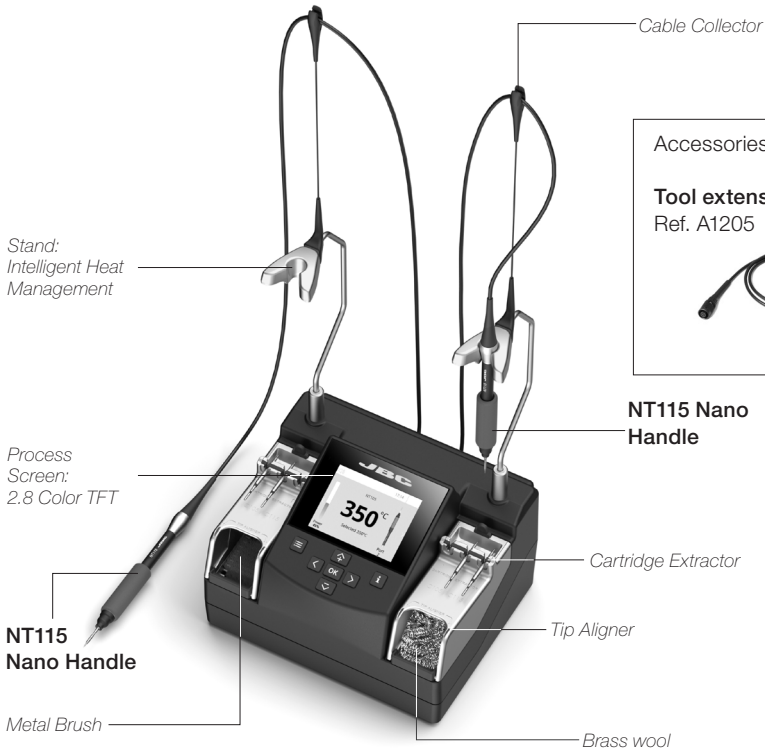


Pedal..... 1 unit
Ref. P-405



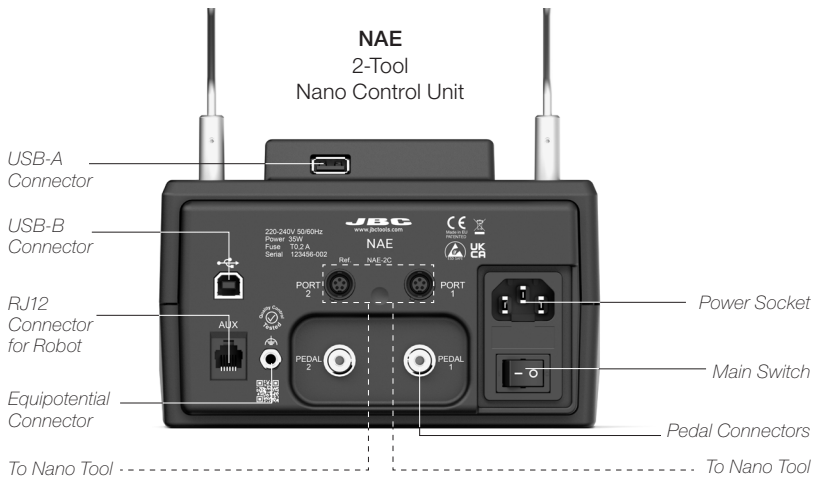
Manual 1 unit
Ref. 0029451

Features and Connections

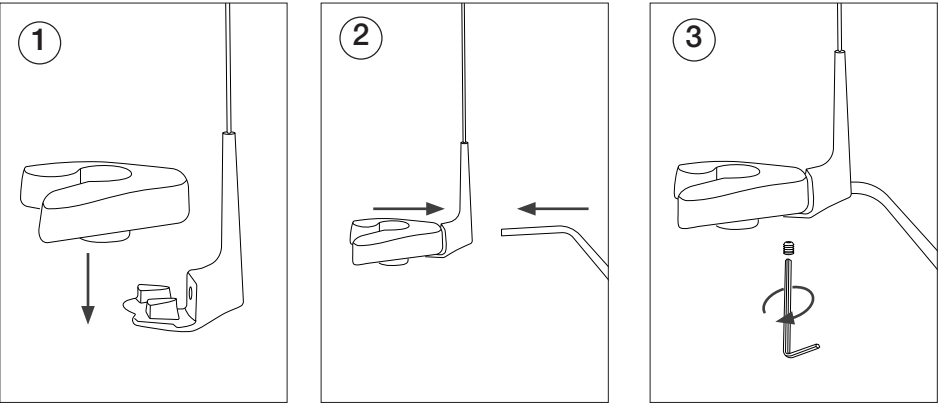


Accessories not included:

Tool extension cord (1m)
Ref. A1205

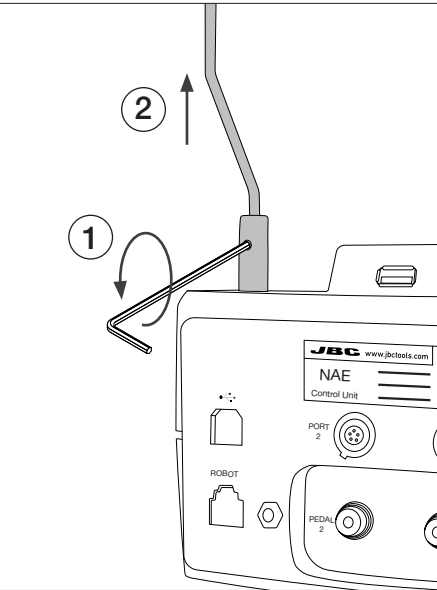


Tool Stand Assembly

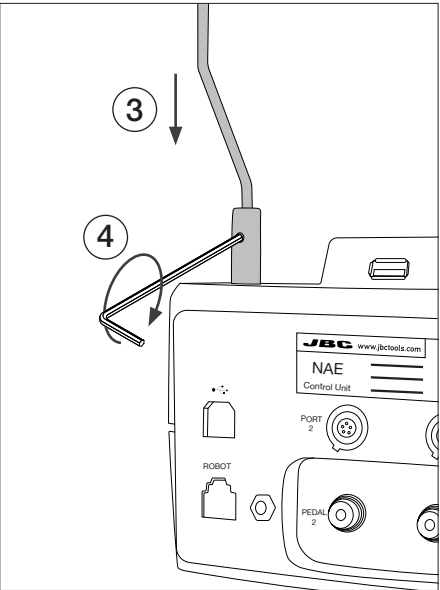


Tool Stand Replacement

Loosen the screw (1) and withdraw the tool stand (2) .

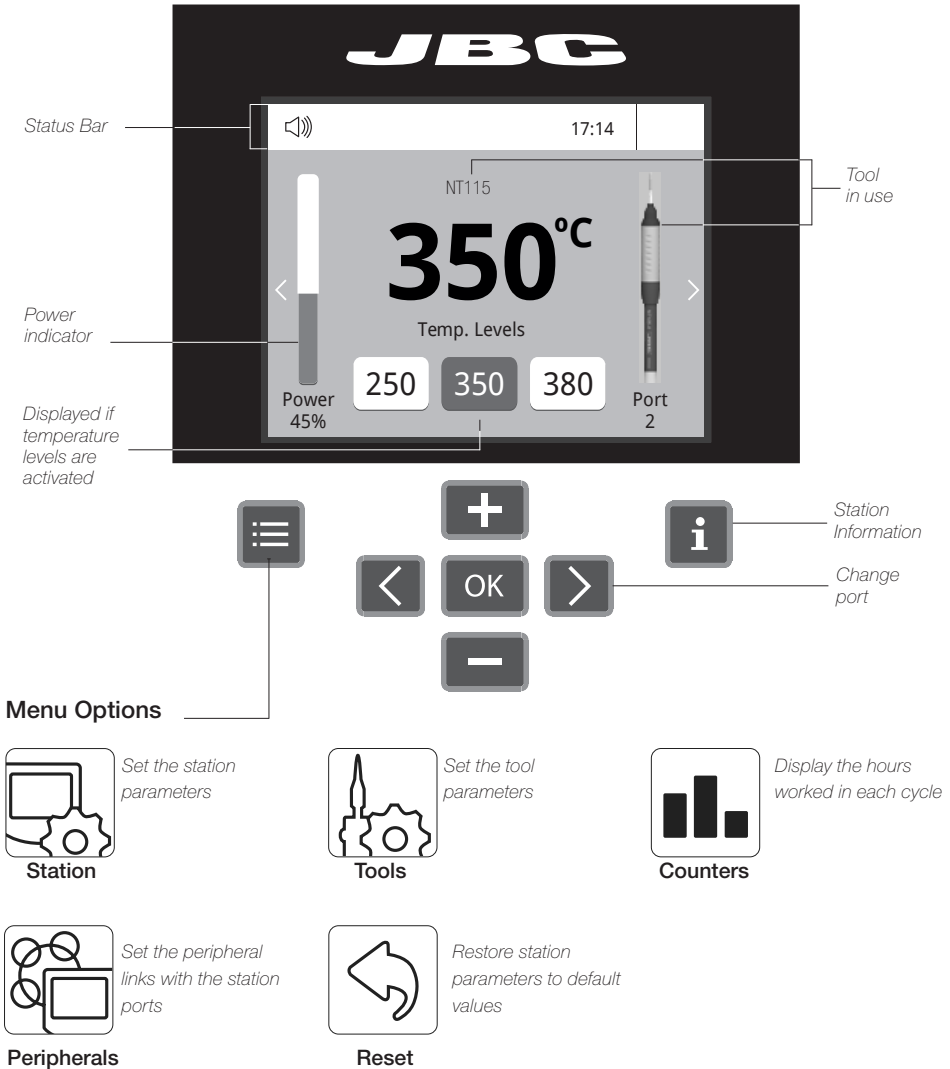


Insert the new tool stand (3) and tighten the screw (4).



Work Screen

The work screen offers an **intuitive user interface** which provides **quick access** to station parameters. **Default PIN: 0105**



Troubleshooting

Station troubleshooting available on the product page at www.jbctools.com

Advanced Functionalities



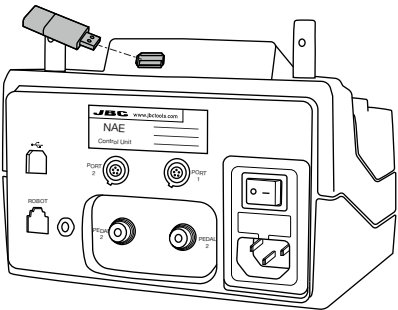
Graphics

It provides detailed graphics of tip temperature and power delivery in real-time during solder joint formation for analysis purposes. This helps you decide how to adjust your process or which tip to use to obtain the best quality soldering.



Update

Station update
Download the JBC Update File from www.jbctools.com/software.html
Insert the USB flash drive with the file downloaded to the station.



System Notifications

The following icons will be displayed on the screen's status bar.



USB flash drive is connected.



Station software update. Press INFO to start the process.



Station is controlled by a PC.



Warning. Press INFO for failure description.



Station is controlled by a robot. down-loaded to the station.



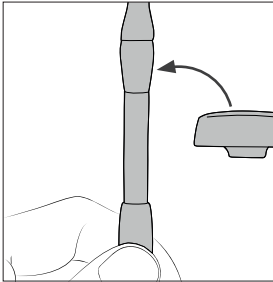
Error. Press INFO for failure description, the type of error and how to proceed.

Operation

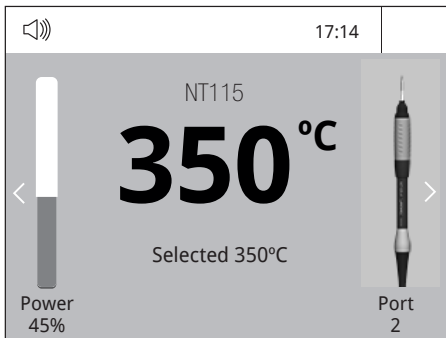
JBC's Exclusive Heating System

This revolutionary technology is able to recover tip temperature extremely quickly. This allows the user to work at a lower temperature. As a result, tip life increases by 5.

1. Work



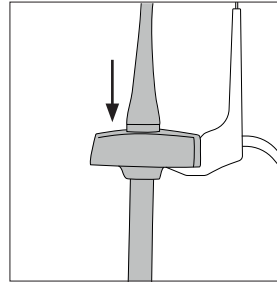
When the tool is lifted from the holder the tip will heat up to the selected temperature.



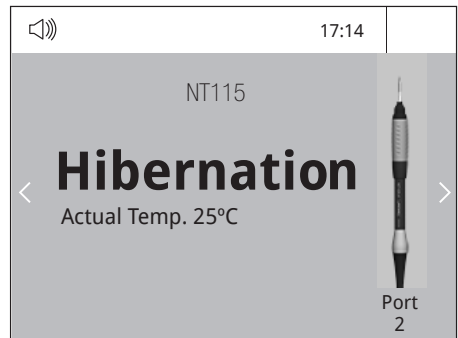
Tools Menu:

- Set temperature limits
- Set temperature levels

2. Hibernation



When the tool is in the holder, the power is cut off and the tool cools down to room temperature.



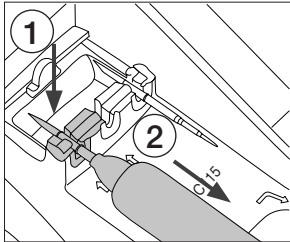
Tools Menu:

- Set Hibernation delay (from 0 to 60 min or no Hibernation)

Changing Cartridges

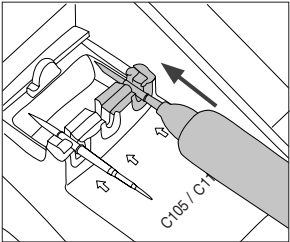
Save time and change cartridges safely without having to switch the station off.

Removing



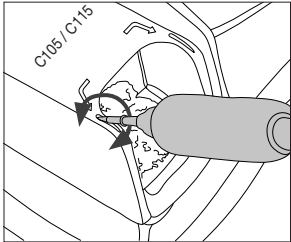
Place the cartridge into the extractor slot (1) and pull the handle to remove the cartridge (2).

Inserting



Push the new cartridge into the handle until the reference ring*.

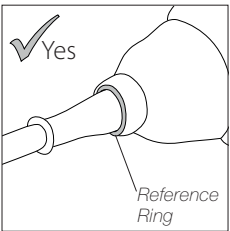
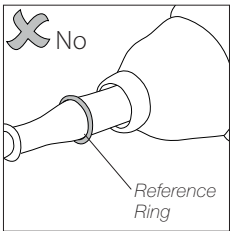
Aligning



Use the holes to rotate the cartridges for proper alignment.

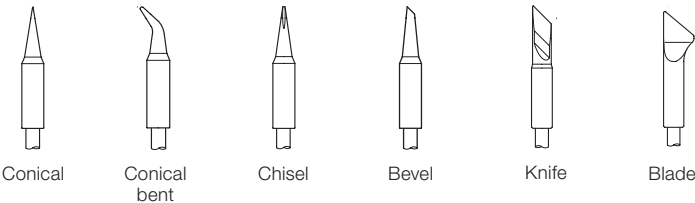
*Important

It is essential to insert the cartridges as far as the reference ring for a proper connection.



Compatible Cartridges

Nano Handle **NT115** works with **C115** cartridges. Find the model that best suits your soldering needs at www.jbctools.com



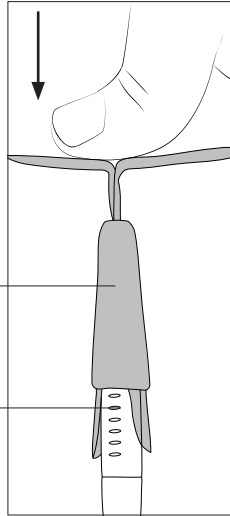
Changing Grips

1. Inserting

First, put the slide-on tabs into the new grip, then push the grip with the tabs onto the handle.

Grip for NT115
Ref. N8662

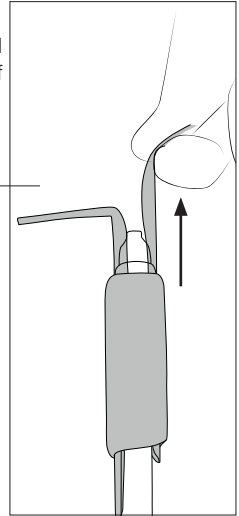
Nano Handle



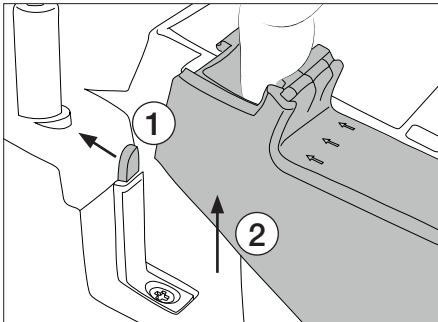
2. Removing Tab

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

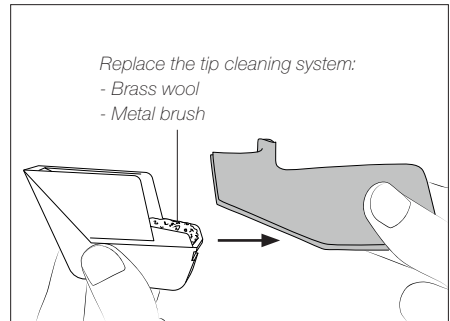
Tabs



Changing the Tip Cleaning System



Press back the tap (1) to remove the cleaning system (2).



Remove the drawer from the splashguard.

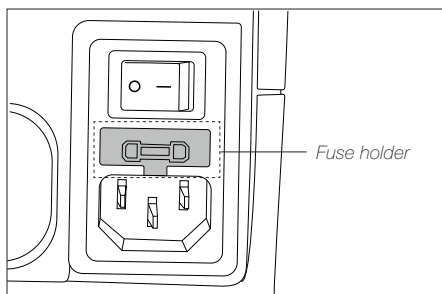
Maintenance

Before carrying out maintenance, always switch the device off and disconnect it from the mains. Allow the equipment to cool down.

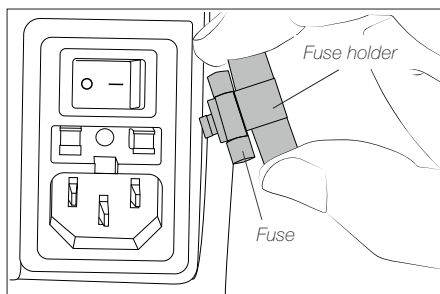
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool's status.
- Maintain 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.
- Periodically check all cables and tubes.
- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Replace a blown fuse as follows:



1. Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



2. Press the new fuse into the fuse holder and replace it in the station.



- 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. Be sure that it is properly grounded before use. 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 activate the sleep mode. 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. Handle with care, including when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflammable products to ignite.
- 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.

Specifications

NANE

2-Tool Nano Soldering Station

Ref.: **NANE-9C** 100V 50/60Hz. Input fuse: 0.5A. Output: 8.5V

Ref.: **NANE-1C** 120V 50/60Hz. Input fuse: 0.5A. Output: 8.5V

Ref.: **NANE-2C** 230V 50/60Hz. Input fuse: 0.2A. Output: 8.5V

- Output Peak Power: 14W per tool
- Temperature Range: 90 - 450 °C / 190 - 840 °F
- Idle Temp. Stability (still air): ± 1.5 °C / ± 3 °F (meets and exceed IPC J-STD-001F)
- Temp Accuracy: $\pm 3\%$ (using reference cartridge)
- Temp Adjustment: ± 50 °C / ± 90 °F (through station menu setting)
- Tip to Ground Voltage/Resistant: Meets and exceed
ANSI/ESD S20.20-2014 IPC J-STD-001F
- Connections: USB-A / USB-B / Pedal connectors
RJ12 connector for Robot
- Ambient Operating Temp: 10 - 50 °C / 50 - 122 °F
- Control Unit Dimensions: 140 x 170 x 125 mm
(L x W x H) 5.51 x 6.69 x 4.92 in
- Total Net Weight: 2.45 kg / 5.40 lb
- Total Package Dimensions/Weight: 280 x 280 x 164 mm / 2.94 kg
(L x W x H) 11.02 x 11.02 x 6.46 in / 6.48 lb

Complies with CE standards

ESD Safe

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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