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JBC DDE-9C 100 V 2-Tool Control Unit



Product Usage Instructions

- Connect the necessary cables to the corresponding ports on the DDE 2-Tool Control Unit as per the Connection Example diagram.
- Ensure all connections are secure and tight.
- Plug in the Power Cord to a suitable power outlet based on the voltage requirement of your unit (100V, 120V, or 230V).
- Press the Main Switch to turn on the control unit.
- Attach the desired tool to the control unit using the appropriate stand and cables.
- Adjust station parameters such as temperature levels and tool settings using the DDE Work Screen interface.

This manual corresponds to the following reference:

- DDE-9C (100 V)
- DDE-1C (120 V)
- DDE-2C (230 V)

Packing List

- The following items are included:



**2-Tool
Control Unit** 1 unit

Power Cord 1 unit
 Ref. 0024077 (100 V)
 0023717 (120 V)
 0024080 (230 V)

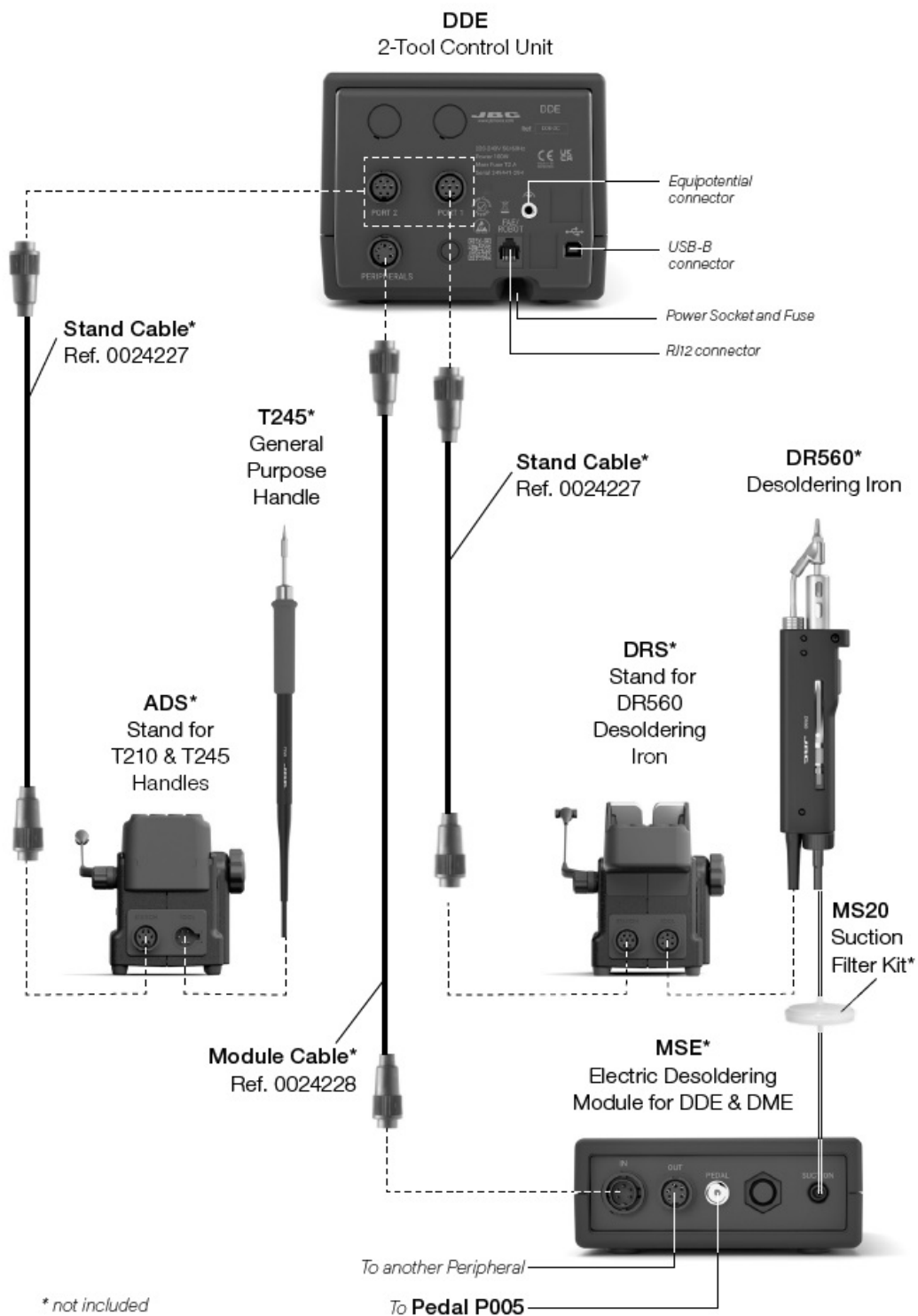
Manual 1 unit
 Ref. 0027023

Features

- DDE work simultaneously with up to 2 tools and 1 module + 1 pedal for each tool (peripheral module for each tool needed).



Connection Example



Compatibility

- Select the equipment that best suits your soldering or desoldering needs.

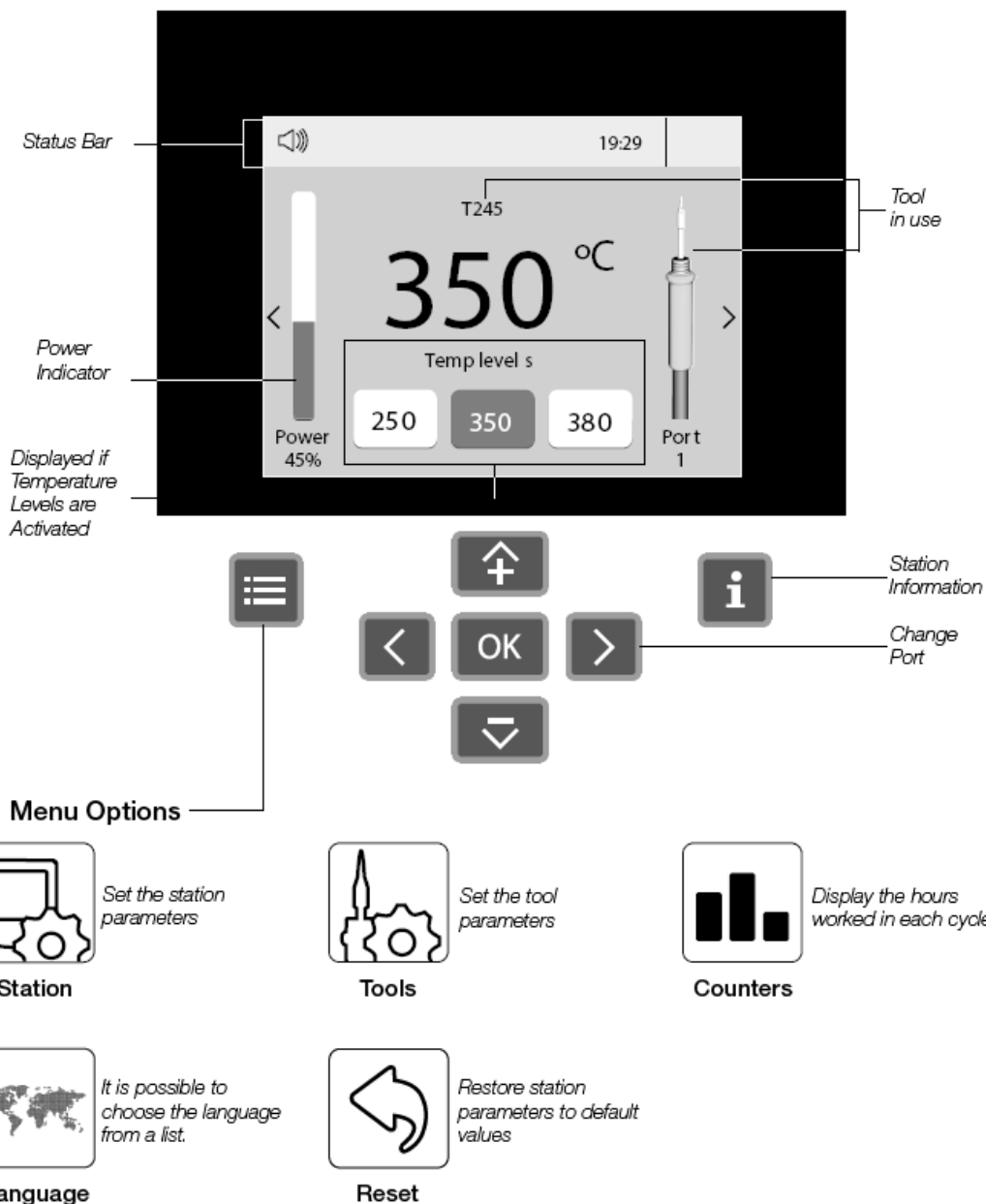
Modular System				Peripherals		
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	P405
		T210	C210			●

DDE	ADS	T245	C245			●
		T470				●
	DNS	T210N	C210		●	●
		T245N	C245		●	●
	APS	AP250	C250			●
	AMS	AM120	C120			●
		PA120				●
	ATS	AT420	C420			●
	HTS	HT420				●
	DSS	DS360	C360	●		●
	DRS	DR560	C560	●		●

DDE Work Screen

- The DDE offers an intuitive user interface that provides quick access to station parameters.

Default PIN: 0105



Troubleshooting

- Station troubleshooting is available on the product page on 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.



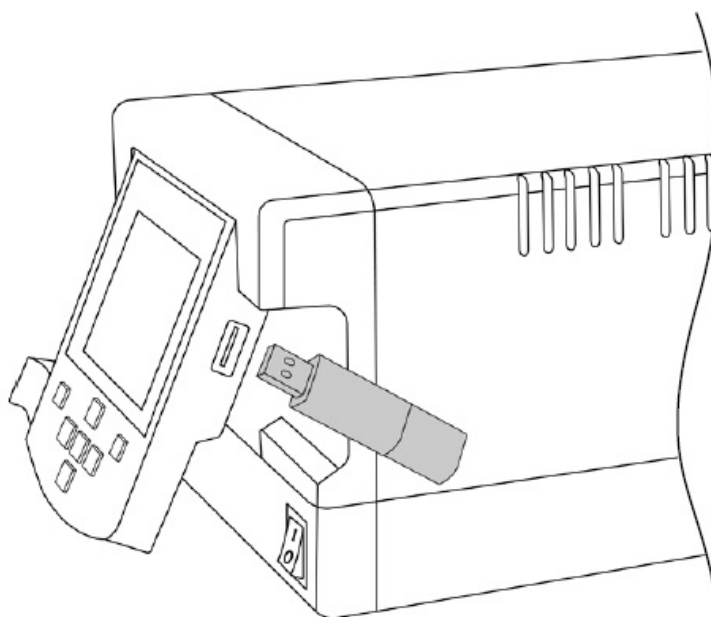
- **Profiles** Designed to avoid thermal shock when soldering Ceramic Chip components

like MLCC, this new and unique feature allows controlling the heating rate to gradually increase the temperature of the component through all the phases of the soldering process. Up to 25 fully configurable soldering profiles can be stored.

Export graphics



- **Files** Insert a USB flash drive into the USB-A connector to save your soldering process in csv format.







Station update





- **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.

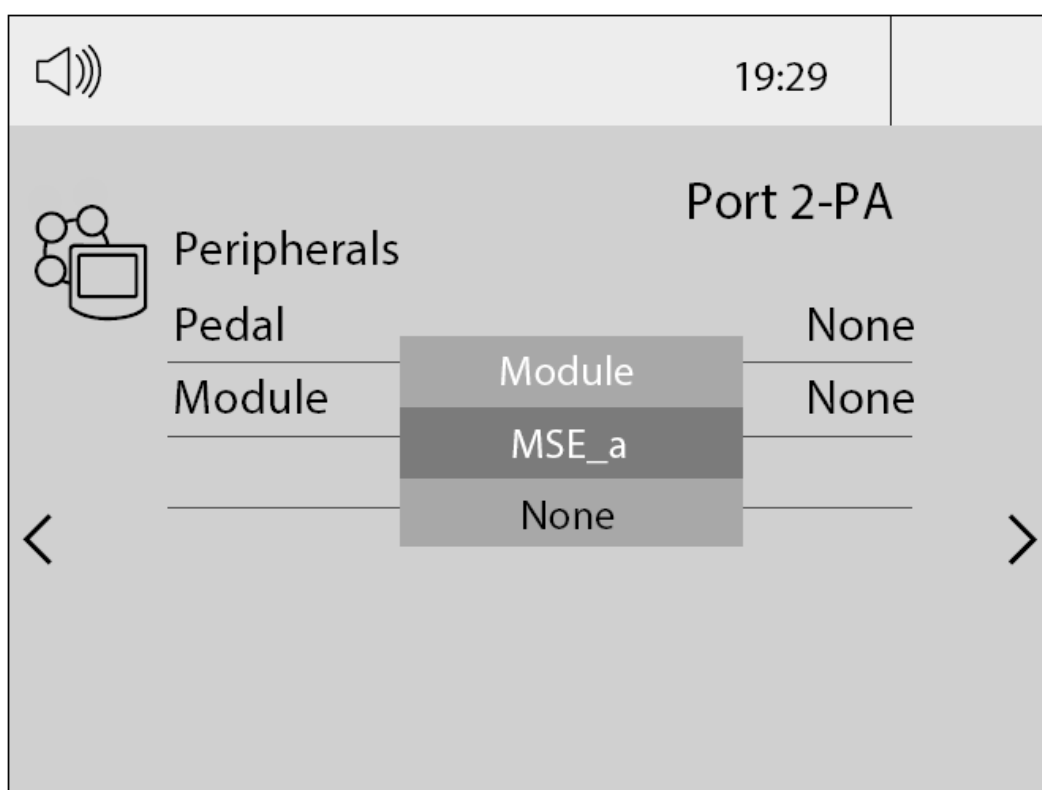
-  USB flash drive is connected.
-  Station is controlled by a PC.
-  Station is controlled by a robot downloaded to the station.
-  Station software update. Press INFO to start the process.

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

Peripherals Set Up

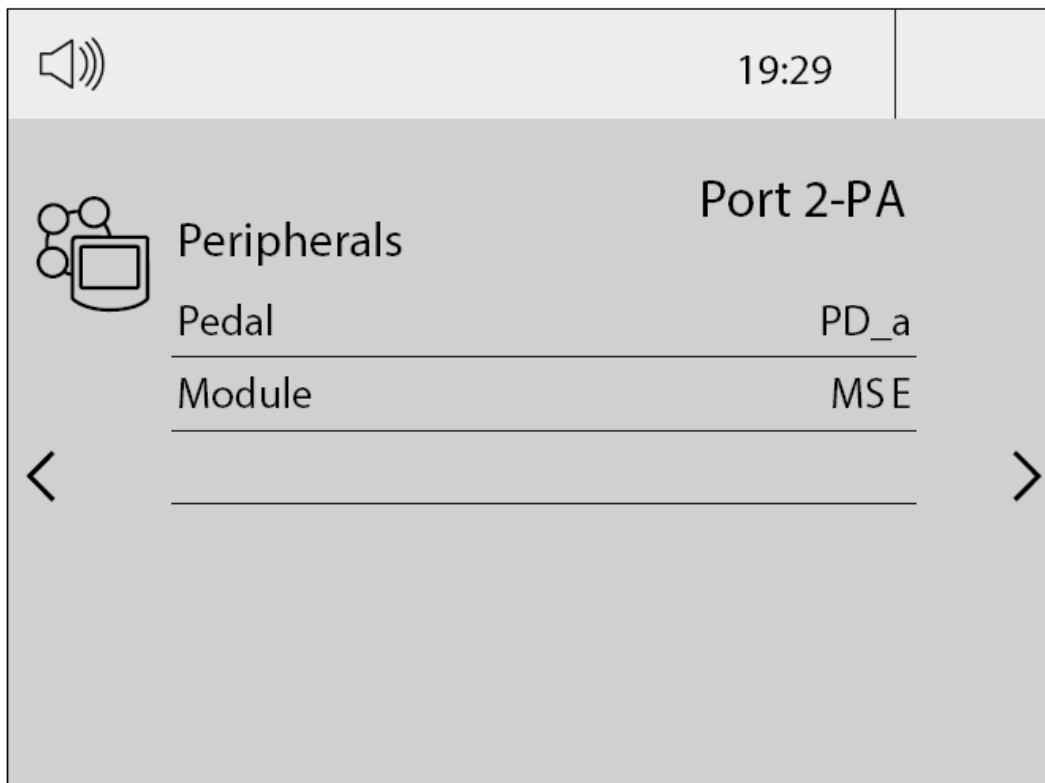
Module Set Up

1. After connecting the module, enter the Peripherals Menu and select the port with which you want to connect the module.
2. Select the module from the list of peripheral connections. Remember your first connection is denoted as “a”, the second being “b”, etc. (e.g. MS_a, MS_b,...).
3. Press Menu or Back to save changes.

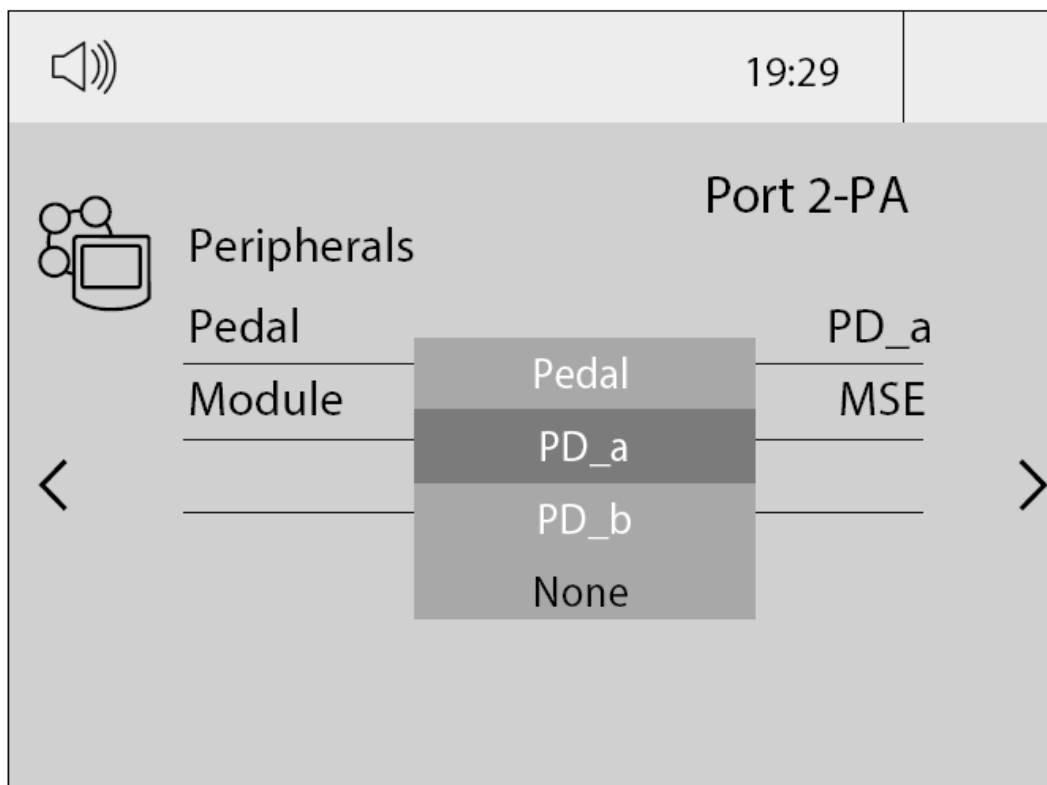


Pedal Set Up

1. Enter the Peripherals Menu and select the port to which you want to connect the pedal.



2. Select the pedal from the list (Note that your first connection is denoted as “a”, the second being “b”, etc., e.g., PD_a, PD_b,...)

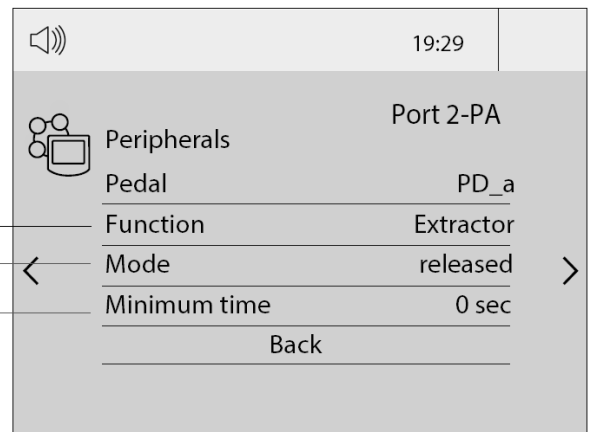


3. Set the pedal function according to your work needs:

Select how the pedal acts:
as **Sleep**, **Extractor** (hibernation) or
as a **module** switch.

Select the activating
mode of the pedal
(**pressed/released**)

Set the duration of the activation time when
pressing the pedal once*. For continuous
functioning keep the pedal pressed.



Note: The pedal function can be used in reverse. This means that holding the pedal down deactivates the function and releasing the pedal activates the function.

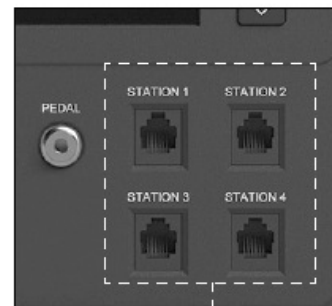
Fume Extractor Set Up

JBC's DDE/HDE control units can be connected to the fume extractor using an RJ12 cable. This way, the fume extractor automatically starts extraction when the soldering tool is in use. To function with FAE the minimum required software version for DDE/HDE control units is 8886160. Download the newest software version from www.jbctools.com/software.html.

DDE/HDE Control Unit

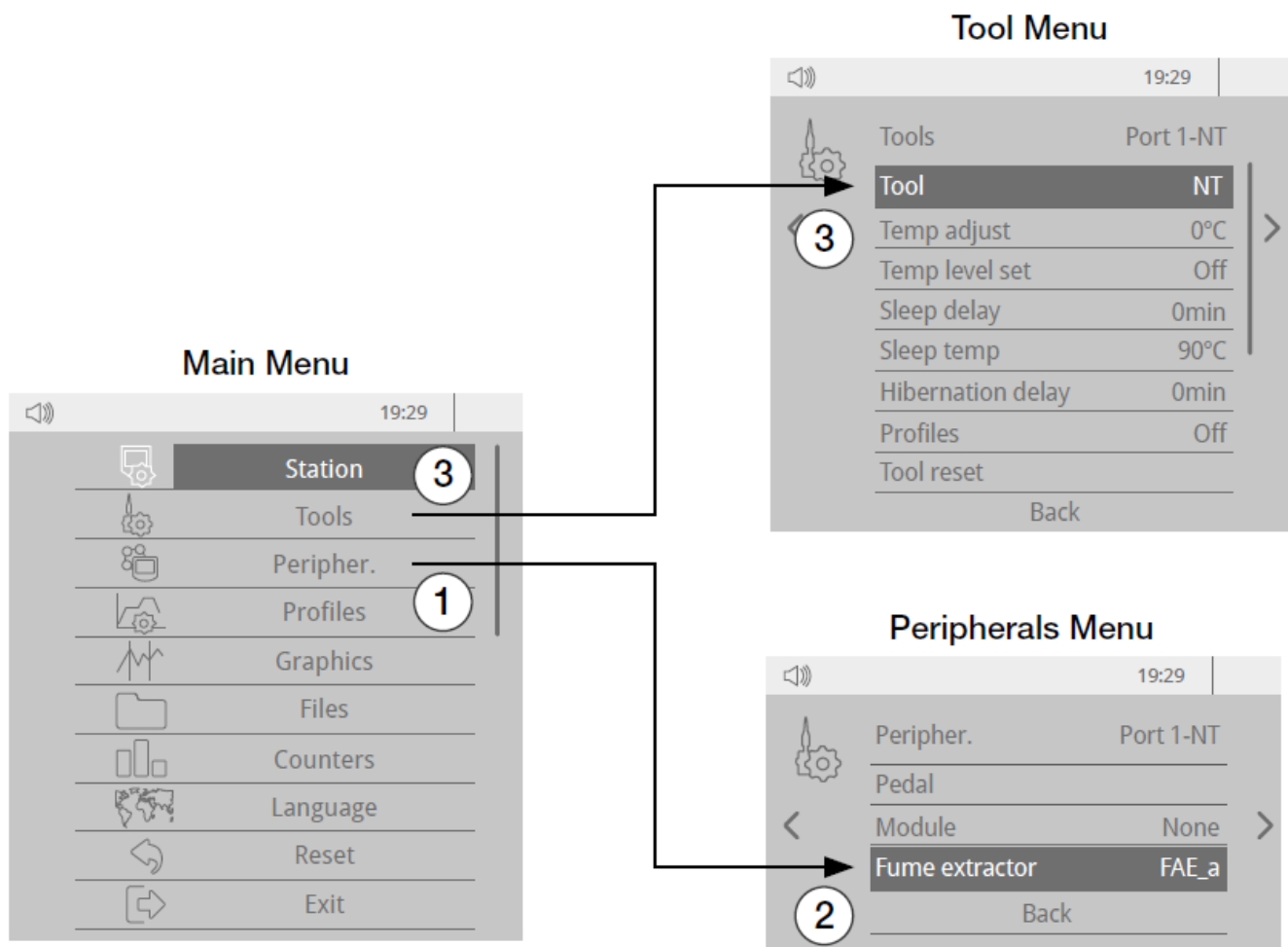


Fume Extractor



RJ12
Connection
Cable

- From DDE/HDE software version 8886887 on, the connected fume extractor can be configured and controlled through the Peripherals (1) menu of the control units.
- Each control unit detects the fume extractor as "FAE_a" (2). The tool that should activate the fume extraction needs to be configured on the control unit main menu through the tool menu option (3).



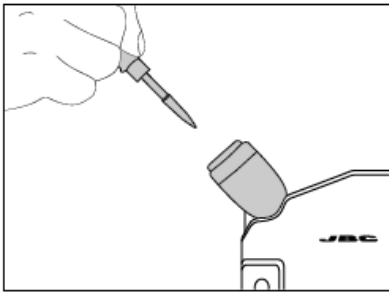
- Extractor Connect up to 4 control units (connector FAE/ROBOT) to the fume extractor connectors (STATION 1, STATION 2, ...). Each tool connected to these control units can start and stop the fume extractor.

Operation

JBC's Most Efficient Soldering System

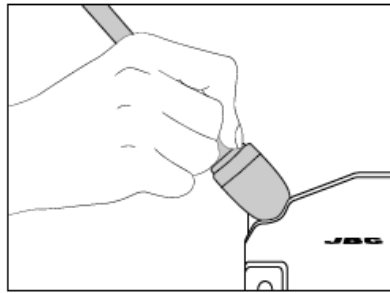
- Our revolutionary technology is able to recover the tip temperature extremely quickly.
- It means the user can work at a lower temperature and improve the soldering quality.
- The tip temperature is further reduced thanks to the Sleep and Hibernation modes, which increase up to 5 times the life of the tip.

1. Work



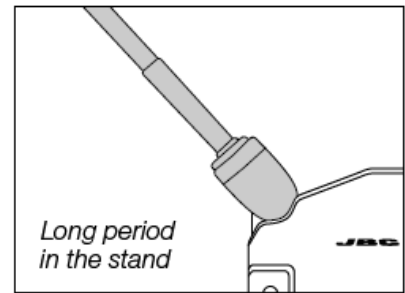
When the tool is lifted from the stand the tip will heat up to the selected Work temperature.

2. Sleep

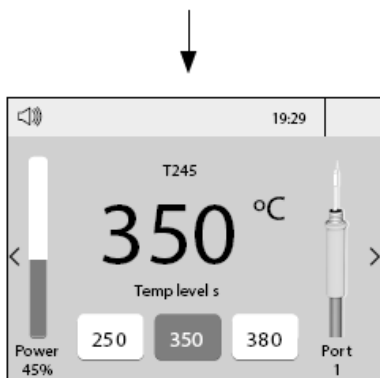


When the tool is in the stand, the temperature falls to the preset Sleep temperature.

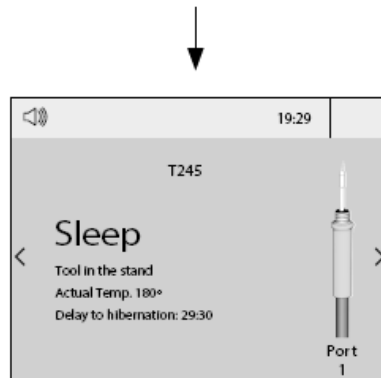
3. Hibernation



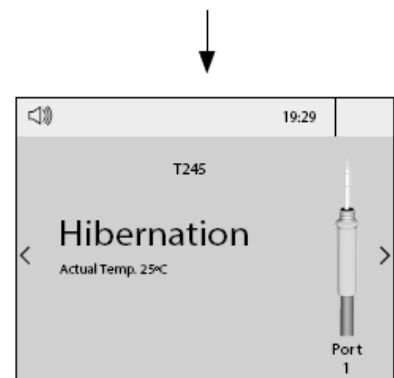
After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



Tool Settings:
• Work Temp.



Tool Settings:
• Sleep



Tool Settings:
• Hibernation

- Change Work temperature from 90 to 450 °C. or steps of ± 5 °C / °F
- Change Sleep temperature and set Sleep delay from 0 to 9 min or no Sleep.
- Change Hibernation delay from 0 to 60 min or no Hibernation.

Tool Settings

- Temp. Levels
- Press , select Tool Settings, and activate the Temp. Levels option.
- or steps of ± 5 °C / °F.

Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool.

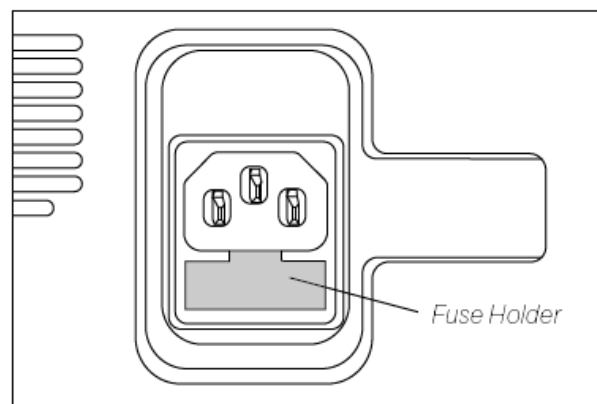
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the

station can detect the tool's status.

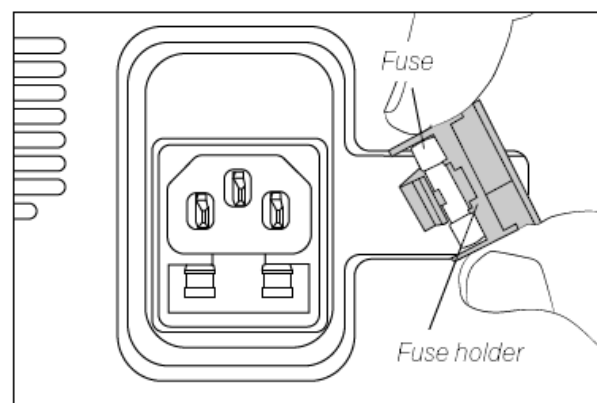
- Maintain the tip surface clean and tinned before storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.
- Periodically check all cables and tubes.



- Replace 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.



- Replace any defective or damaged pieces. Use original JBC spare parts only.
- 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 protective 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 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.
- Maintenance must not be carried out by children unless supervised.

Specifications

DDE

2-Tool Control Unit

Ref.: DDE-9C 100 V 50/60 Hz. Input fuse: T 5 A. Output: 23.5 V

Ref.: DDE-1C 120 V 50/60 Hz. Input fuse: T 4 A. Output: 23.5 V

Ref.: DDE-2C 230 V 50/60 Hz. Input fuse: T 2 A. Output: 23.5 V

- Nominal Power 370 W
- Peak Power (Tool): 150 W per tool
- Selectable Temperature: 90 – 450 °C / 190 – 840 °F
- Idle Temp. Stability (still air): ± 1.5 °C / ± 3 °F / Meets and exceeds IPC J-STD-001F
- Temp Accuracy: ± 3 % (using reference cartridge)
- Temp Adjustment: ± 50 °C / ± 90 °F Through station menu setting
- Tip to Ground Voltage/Resistance: Meets and exceeds ANSI/ESD S20.20 and IPC J-STD-001F
- Ambient Operating Temp: 10 – 50 °C / 50 – 122 °F
- Connections: USB-A / USB-B / Peripheral connectors RJ12 connector
- Control Unit Dimensions/Weight: 148 x 232 x 120 mm / 3.82 kg (L x W x H) 5.8 x 9.1 x 4.7 in / 8.41 lb
- Total Package: 258 x 328 x 208 mm / 4.3 kg (L x W x H) 10.15 x 12.9 x 8.1 in / 9.5 lb

Complies with CE standards.

ESD safe.

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 of JBC warranty by registering here:
<https://www.jbctools.com/productregistration/> within 30 days of purchase.
- If you register, you will receive email 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.






FAQ

- **Q: How many tools can the DDE control unit support?**
 - **A:** The DDE control unit can support up to 2 tools simultaneously.
- **Q: Can I save my soldering process data?**
 - **A:** Yes, you can export your soldering process data by inserting a USB flash drive into the USB-A connector of the unit.
- **Q: Where can I find troubleshooting information?**
 - **A:** Troubleshooting information is available on the product page at www.jbctools.com. You can also refer to the user manual for guidance.

Documents / Resources

 <p>JBC INSTRUCTION MANUAL</p> <p>DDE 2-Tool Control Unit</p>	JBC DDE-9C 100 V 2-Tool Control Unit [pdf] Instruction Manual DDE-9C 100 V, DDE-9C 100 V 2-Tool Control Unit, 2-Tool Control Unit, C ontrol Unit
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References

- [User Manual](#)

2-Tool Control Unit, Control Unit, DDE-9C 100 V, DDE-9C 100 V 2-Tool Control Unit,

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