JBC

www.jbctools.com

2 Tools Control Unit

Ref. DDE-B

Packing List

The following items should be included:

- 2 Tools Control Unit 1
  unit
  Ref. DDE-1B (120V)
       DDE-2B
(230V)   DDE-
9B (100V)

- 1.5m Power Cord 1
  unit
  Ref. 0010569 (230V)
       0013671 (100/120V)

- Manual ....
  1 unit
  Ref. 0016160

Features

Connections

Work simultaneously with **up to 2 tools** and
1 module + 1 pedal for each tool
(Peripherals).

2,8" Color **TFT screen**

USB-A connector

Tilt the display for easy reading

DDE Control Unit

Equipotential connection

USB-B connector

Power Socket

RJ12 connector for Robot system

Stand cable Ref. 0011283

To **Pedal** Ref. P-005

Tool

Module cable Ref. 0012709

2

Stands & Tools

For a basic working system you need: 1 Stand, 1 Tool and 1 Cartridge or tip.

3

Stand

Peripherals

To another peripheral

Stands

Ref. AD-SD   Ref. DN-SD   Ref. AP-SD
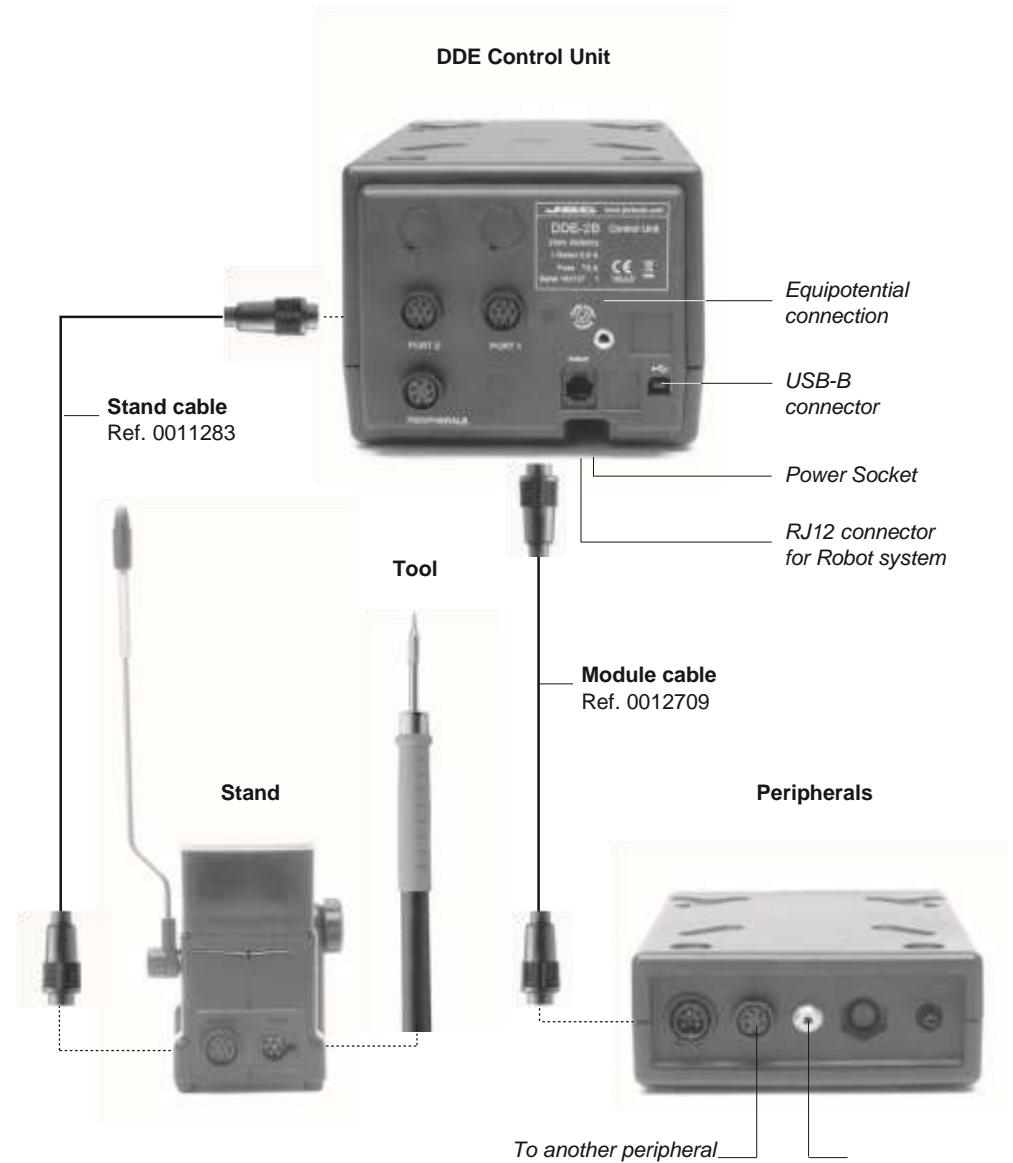
Tools Precision General HD General Nitrogen Solder Feed Iron purposes purposes purposes Handle Ref. AP130

Ref. T245-NA*

Handle   Handle   Handle
Ref. T210 Ref. T245 Ref. T470

Ref. PA-SD   Ref. HT-SD   Ref. DS-SD   Ref. DR-SD

** The MNE
Nitrogen Flow
Regulator is
required to work.*

Cartridges   C210   C245   C130

Micro Tweezers   **Thermal Tweezers**   **Micro Desoldering Iron**   **Desoldering Iron**
Ref. PA120   Ref. HT420   Ref. DS360   Ref. DR560

C120   C420   C360   C560

4   5
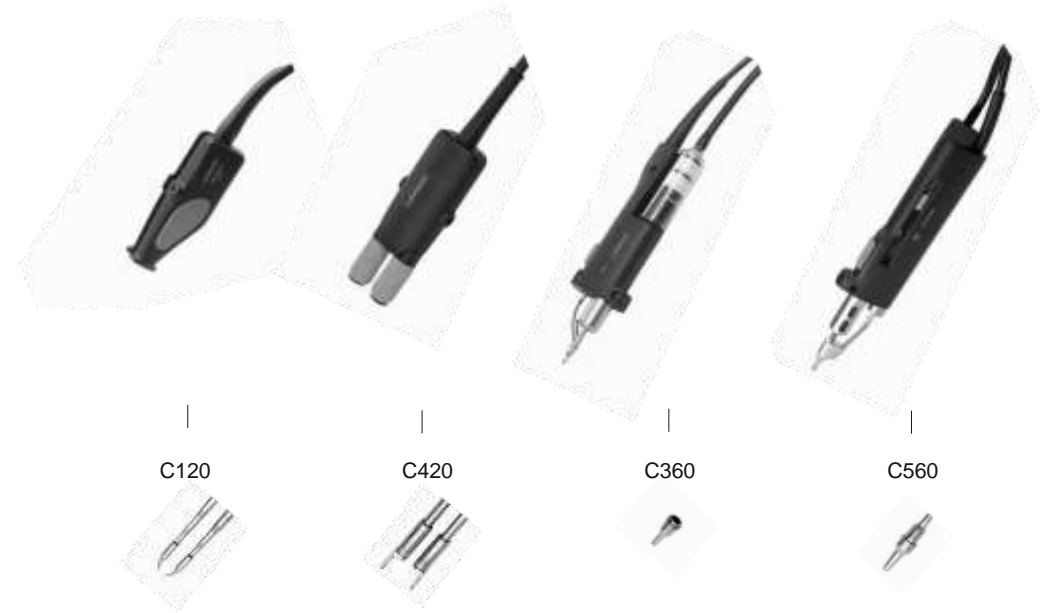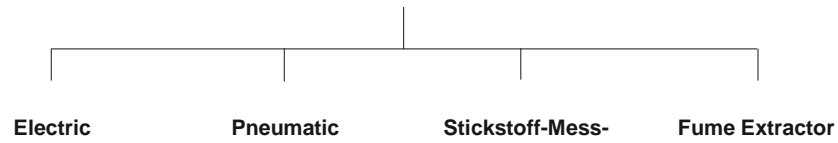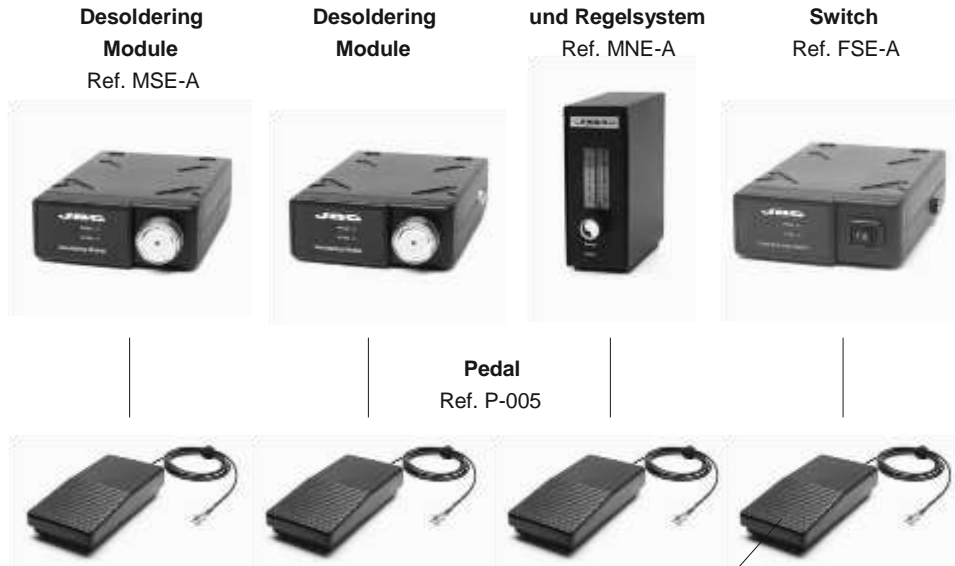
Peripherals

By pressing **Peripherals** in the main MENU, you can join tool ports with peripherals which means each tool can work with 1 module and 1 pedal at the same time.

Control Unit

Electric   **Pneumatic**   **Stickstoff-Mess-**   **Fume Extractor**

Desoldering Module
Ref. MSE-A

Desoldering Module

und Regelsystem
Ref. MNE-A

Switch
Ref. FSE-A

Pedal
Ref. P-005

Ref. MVE-A

Function: **Enable/disable** the module or make any tool enter **Sleep** or **Hibernation** modes.

This pedal will work with any module or tool regardless of the module to which it is connected.

If you do not have a module, you can link up the P-305 Pedal Kit to the tool port.

Compatibility

Select the equipment that best suit your soldering or desoldering needs.

Basic system		working		Peripherals**			
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	FSE	P-005
DDE	AD-SD	T210	C210			●	●
		T245	C245			●	●

|		T470	C245			●	●
DN-SD	T245-NA*	C245		●	●	●
AP-SD	AP130-A	C130			●	●
PA-SD	PA120	C120			●	●
HT-SD	HT420	C420			●	●
DS-SD	DS360	C360	●		●	●
DR-SD	DR560	C560	●		●	●

* The **MNE** Nitrogen Flow Regulator is required.

If you need to connect the **MS, **MV**, **MN** or **FS** modules, an adapter is required (Ref. IM2496).

Connection Box
Ref. 0012527

+

Pedal
Ref. P-005

P-305 Pedal Kit

By using the Connection Box, the P-005 Pedal will work with **only the tool port** to which it is connected.

Function:
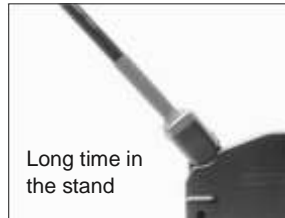Makes the tool enter/skip from **Sleep** mode.

Tool port connection
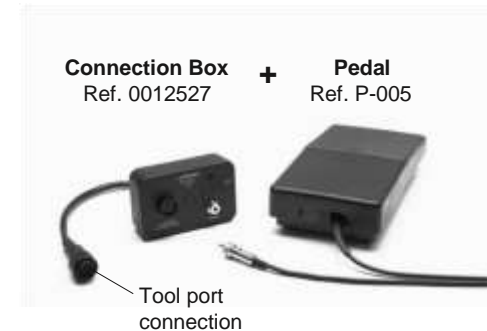
Operation

The JBC Exclusive Heating System 1. Work

2. Sleep   **3. Hibernation**
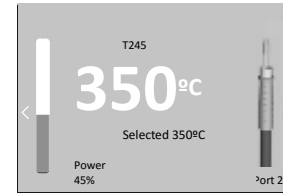

Long time in
the stand

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

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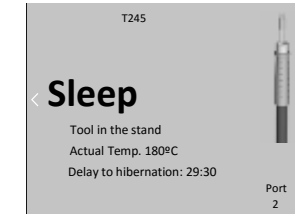stand the tip will heat up to the
selected temperature.

When the tool is in the stand,
the temperature falls to
180ºC / 360ºF (preset sleep
temperature).

After longer periods of
inactivity (pre-set to 30 min.),
the power is cut off and the
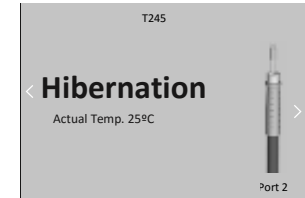tool cools down to room
temperature.

17:14

17:14

17:14

T245

350ºC

Selected 350ºC

Power
45%   Port 2

T245

Sleep

Tool in the stand
Actual Temp. 180ºC
Delay to hibernation: 29:30

Port
2

T245

Hibernation

Actual Temp. 25ºC

Port 2

Tools Menu:

· Set temperature limits
· Select temperature levels

Tools Menu:

· Set Sleep temperature
· Set Sleep delay
  (from 0 to 9 min or no Sleep)

Tools Menu:

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

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Work Screen

The DDE offers an **intuitive user interface** which provides **quick access** to station parameters.

Status bar

Power indicator

Displayed if temperature levels are activated

Tool in use

Station Information

Change

T245

350 °C

Temp. Levels

250 350 380

Power 45%

Port 2

17:14

Menu Options

Press INFO for each parameter description.

System notifications (Status Bar)

USB flash drive is connected.

Station is controlled by a PC.

Station is controlled by a robot.

Station   Tools   Counters   Station software update.

Press INFO to start the process.

Warning.
Press INFO for failure description.
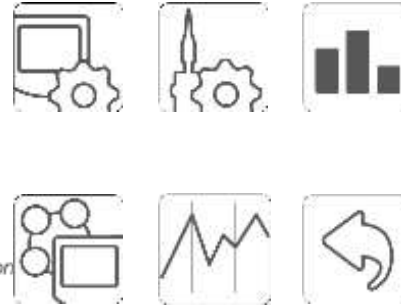
Error. Press INFO for failure description,
Peripherals Graphics   **Reset** the type of
error and how to proceed.

*port*

9

Process analysis

Soldering Net

anage and monitor as many stations as your PC can handle.

Graphics

By pressing **Graphics** in the main MENU, temperature and power figures in real time are displayed for each port. This helps you decide which tip to use to obtain the best quality solder joints.

Power (%)

Temperature

450
400
350
300
250
200
150
100
50

— Power — Temp   Port 1 - T245

17:14

See other port graphic

Export graphics

Insert a USB flash drive into the USB-A connector to start saving your soldering process in csv format.

JBC Manager software

USB Hub

any JBC station
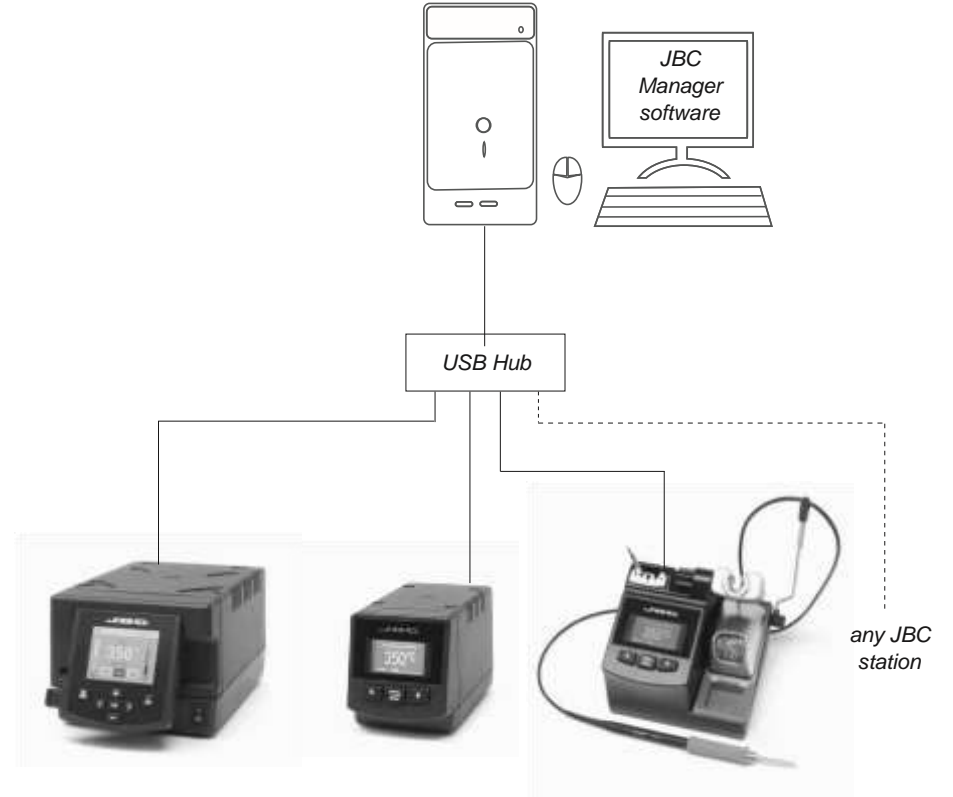
1. Download the **JBC Manager software** and the user manual from **www.jbctools.com/manager.html**

2. Connect the stations via USB-B connector and the PC will automatically detect them.

3. The notification   will be displayed on the station.

Functions:

- Set all the station parameters from your PC.
- Organize groups of stations and set all their parameters at the same time.
- Store specific configurations for later uses.
- Analyze the soldering graphics of the stations on your PC and export them.

Working with Robots

Manage and monitor the station using a Robotic system.

1. Connect the tool to the station port by means of the Converter.
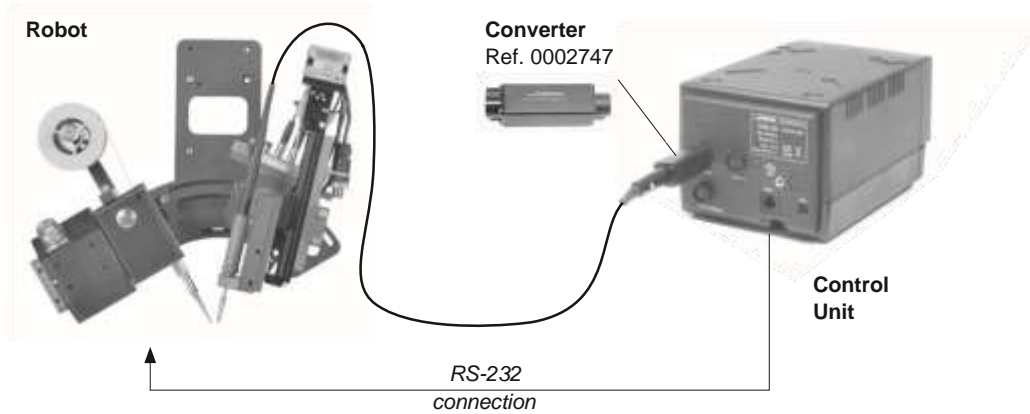
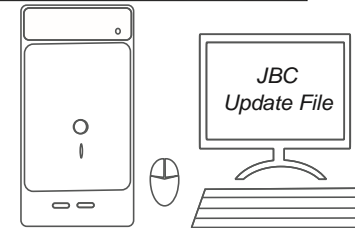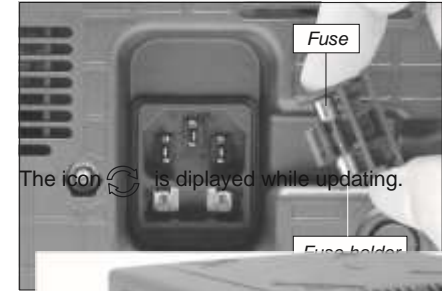# Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool.
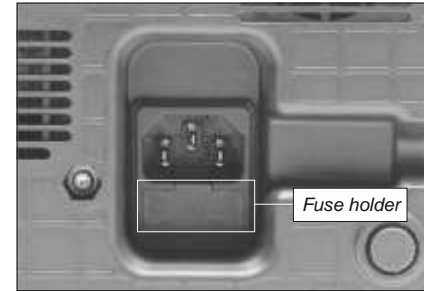
- Clean the station screen with a glass cleaner   *Clean periodically*

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 status.

- Maintain 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 a blown fuse as follows

Robot

Converter
Ref. 0002747

Control Unit

RS-232 connection

Fuse holder

Fuse

The icon ⟳ is diplayed while updating.

Fuse holder

JBC Update File

2. Connect your Robot system to the Robot connector (RJ12) of the

station.   DB9-RJ12 Adapater available only if necessary (Ref: 0013772).

3. Enable the Robot option in the station settings and the notification will be displayed:

4. Set your Robot's commands according to the Robot Communication Protocol, available on the

Update the station software

1. Download the JBC Update File from www.jbctools.com/software.html and save it on a USB flash drive.

2. Insert the USB flash drive to the station.

rive. Preferably one with no other files.

1. Pull off the fuse holder and remove the new fuse into the fuse holder to lever it off.

2. Press the fuse. If necessary use a tool 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.

⚠ **It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.**

Safety

- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause 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, 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 inflamable products to ignite.

- Use a "non residue" classified flux and avoid 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 persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning 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.