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INSTRUCTION MANUAL

DME

4-Tool Control Unit

This manual corresponds to the following references:

DME-9A (100V)
DME-1A (120V)
DME-2A (230V)

Packing List

The following items are included:

**4-Tool
Control Unit** .... 1 unit

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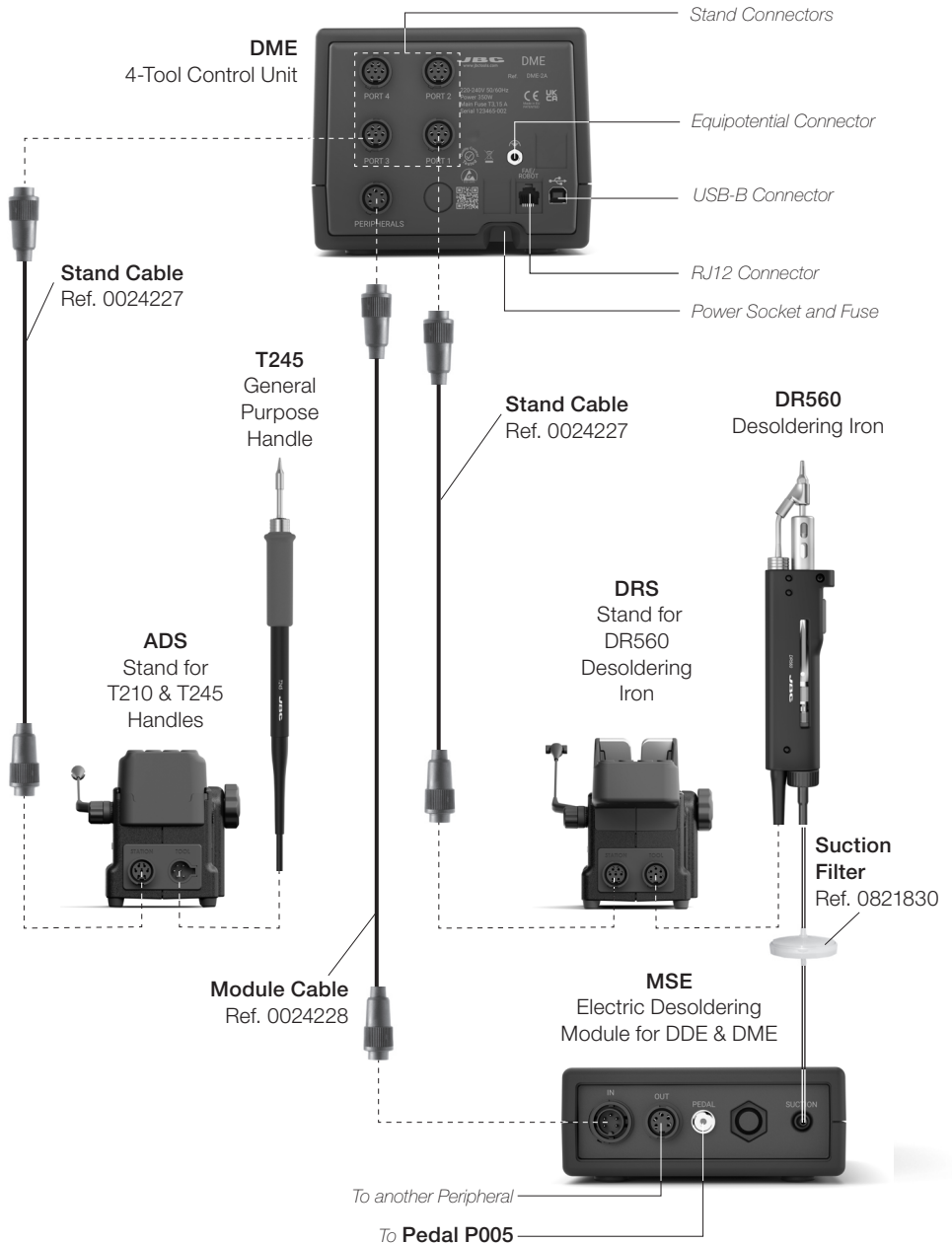   0024080 (230V)

Manual .... 1 unit
Ref. 0031931

Features

DME works simultaneously with **up to 4** tools, 1 module and 1 pedal for each tool (peripheral module for each tool needed).

2,8" Color **TFT Display**

*Tilt the display
for easy reading*

USB-A Connector

Main Switch

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Connection Example

Stand Connectors

DME
4-Tool Control Unit

Equipotential Connector

USB-B Connector

RJ12 Connector

Power Socket and Fuse

Stand Cable
Ref. 0024227

T245
General
Purpose
Handle

Stand Cable
Ref. 0024227

DR560
Desoldering Iron

DRS
Stand for
DR560
Desoldering
Iron

ADS
Stand for
T210 & T245
Handles

**Suction
Filter**
Ref. 0821830

Module Cable
Ref. 0024228

MSE
Electric Desoldering
Module for DDE & DME

To another Peripheral

To **Pedal P005**

3

Compatibility

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

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

Work Display

DME offers an intuitive user interface which provides quick access to the station parameters.
Default PIN: 0105

Station Information
Help for each parameter

Station Lock
*PIN required
for unlocking*

🔒 ◁))   17:14   **?**   **MENU**

▶ C245-003

350°C

Selected **350º**

Power
45%

Port
3

—   +

**Cartridge
in Use**
*Introduce the
reference for
more precise
temperature
accuracity*

Power Indicator
*Shows the %
power delivered
by the tool.*

Tool in Use
*Press on the
tool image
to see the
Ports Display*

Troubleshooting

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

Menu Display

Press the station information button (?) to get information of the different features being displayed.

Configure tool settings for each port

Link station ports with modules and pedals

🔒 ◁))   17:14   **?**   ◁   ⌂

**Personalize
the Station:**
*Station name, PIN
activation, Display
settings, Robot
activation, Partial
resets...*

Station   Tools   Peripherals   Counters

Utilities   Profiles   Language   Reset

**Registers total
and partial hours**
*for each port: work,
sleep, hibernation...*

Utilities
*Useful additional applications
that complement and
support your work.*

Multi-language
10 languages to choose from.

Utilities Submenu

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.

Files

Export graphics
Insert a USB flash drive into the USB-A connector to save your soldering process in CSV format.
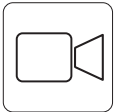
Video

Play videos
Enables to play video files from a USB device as long as it is in AVI format and 320x240px.

Microscope

Provides the possibility to connect a microscope* by USB connection to the station. The image will be shown on the station display.

* compatible with: Dino Lite AM2111 and AM2011
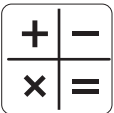
Calculator

Provides calculator environment and function.
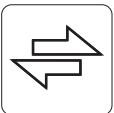
Convert

Enables to convert, for example, ºC values into ºF values.

System notifications

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

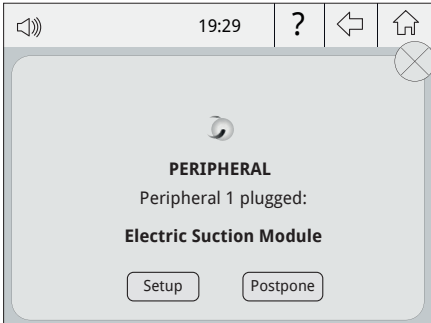|			
	USB flash drive is connected.		Station software update. Press INFO to start the process.
	Station is controlled by a PC.		Warning. Press INFO for failure description.
	Station is controlled by a robot. downloaded to the station.		Error. Press INFO for failure description, the type of error and how to proceed.

MSE / Pedal Initial Setup

After connecting the electric desoldering module (MSE-A), a popup window is opened.

Peripherals

◁)) 19:29 ? ⇦ ⌂	◁)) 19:29 ? ⇦ ⌂

PERIPHERAL
Peripheral 1 plugged:
Electric Suction Module

Setup   Postpone

Peripherals

	Port	1	2	3	4
MS a		●	○	○	○
PD a		●	○	○	○

1. To configure your Electric Suction Module press Setup in the popup window.
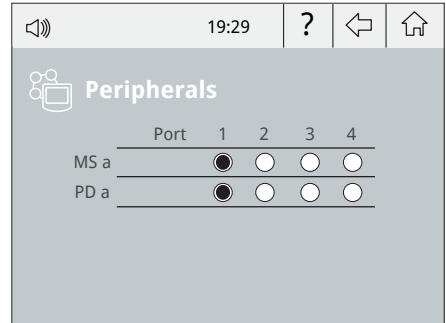
2. Select the module from the list of peripheral connections. Remember your first connection is denoted as "a", the second being "b", etc. (e.g. MS_a, MS_b,...). Do the same with the pedal (e.g. PD_a,...)

3. Select the port of the tool you want to link to the peripheral.

4. Press Menu ⌂ or Back ⇦ to save changes. Once set up, the module settings can be changed by entering the **Peripherals** Menu.

Simultaneous Ports Control

See the information for all ports in real time when pressing the tool image on the Work display.

◁))	19:29	?	MENU

Port 1	Port 2
C245903	C560001
Hibern.	**Sleep**

Port 3	Port 4
C120001	C210001
350º	**Hibern.**

Tool port
Press any port to show on the Work display

Tool Status
Tip temperature, Sleep or Hibernation
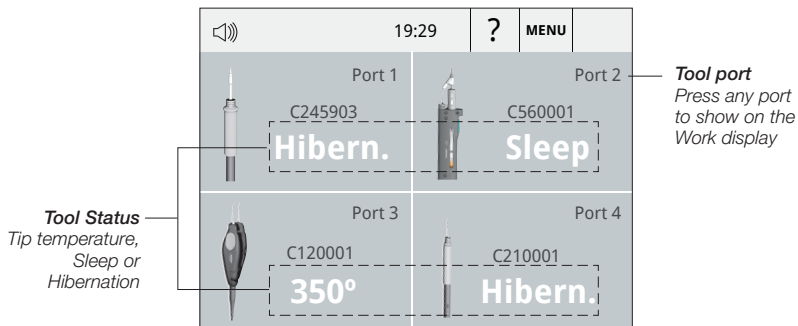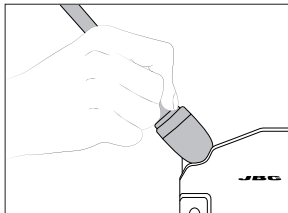
Operation

JBC's Most Efficient Soldering System

Our revolutionary technology is able to recover 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.
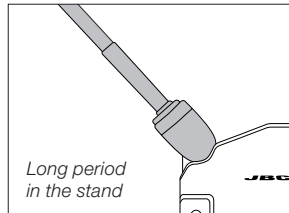
1. Work
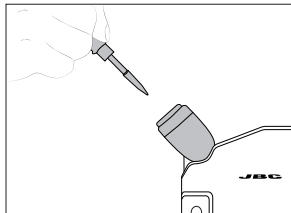
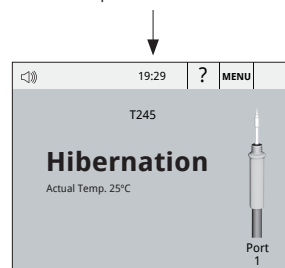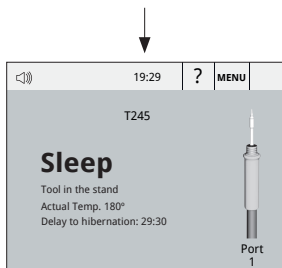When the tool is lifted from the stand the tip will heat up to the selected temperature.

Menu

Work Temperature:
Change from 90 to 450 ºC by tapping − or + on the screen.
Temperature Levels:
Tap *Menu > Tools > Temperature levels* and set them "*ON*". The levels can be modified tapping *Menu > Tools > Set temperature levels.*

2. Sleep

When the tool is in the stand, the temperature falls to the present sleep temperature.


Sleep Delay:
Tab *Menu > Tools* and select *Sleep Delay* to change from 0 to 60 min or *No Sleep*.
Sleep Temperature:
Tab *Menu > Tools* and select *Sleep Temperature* to modify its value*.*

3. Hibernation

Long period in the stand

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

Hibernation Delay:
Tab *Menu > Tools* and select *Hibernation Delay* to change from 0 to 60 min or *No Hibernation*.
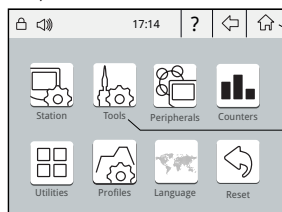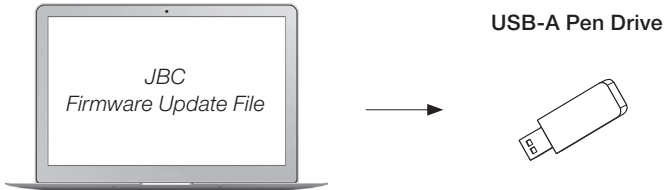

Home: back to work screen

Tools

USB Connector and Firmware Update

Download: JBC Firmware Update File

Download the **JBC firmware update file** from **www.jbctools.com/software.html,** which contains the latest update package. Extract the .jpu file to the root folder of a USB-A pen drive (FAT32), preferably with no other files.

USB-A Pen Drive

*JBC
Firmware Update File*

Connection: USB-A Pen Drive to Control Unit

Connect the USB-A pen drive which contains the latest update file and the update notification to the control unit.

This symbol ↻ will be displayed automatically.

If the DME control unit does not detect the USB pen drive, please use a pen drive partitioning software.

Installation: JBC Firmware Update File

UPDATE
New update available.

Install   Postpone
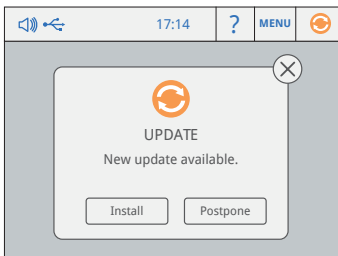
Press "Install" on the pop-up window. If ↻ is not displayed, tap on the notification.

Updating Process

During the updating process do not turn off the control unit, it may turn on and off automatically. The installation finishes when the updating bar is completed and the work screen is displayed.
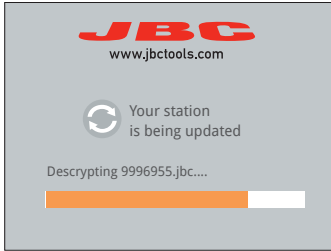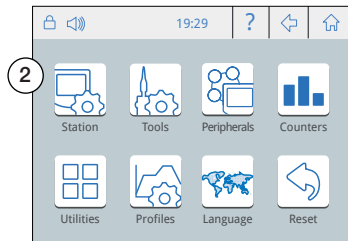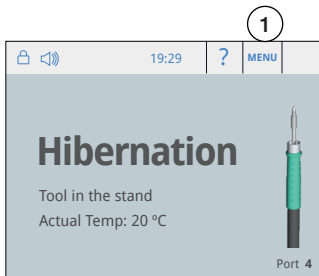

The work screen will be displayed after confirming the "Welcome" pop-up.
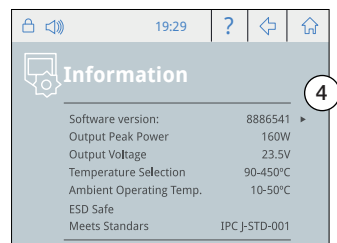
If the process stops for a long time (over 30 min), reset the station and wait until the installation is fully completed.

Checking Firmware Version

Check that the new firmware has been installed successfully by means of the following steps:

First select "Menu" (1) and then the "Station" icon (2) on the screen.

Select "Information" (3) and then press ▶ (4) to check the firmware version.

Maintenance

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

- Clean the station display 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 and establish its 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:

Clean periodically

Fuse Holder
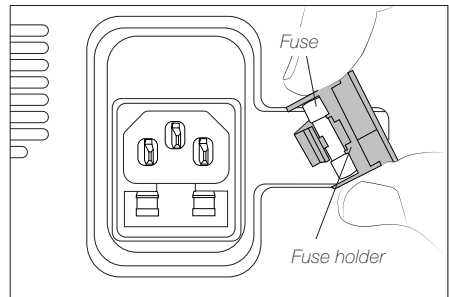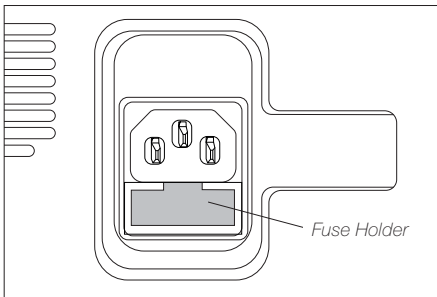
Fuse

Fuse holder

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

2. Insert the new fuse into the holder and return it to 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 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 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.

Notes

Notes

Specifications

DME
4-Tool Control Unit
Ref. **DME-1A** 120V 50/60Hz. Input fuse: T-3.5A. Output: 23.5V
Ref. **DME-2A** 230V 50/60Hz. Input fuse: T-3.15A. Output: 23.5V
Ref. **DME-9A** 100V 50/60Hz. Input fuse: T-8A. Output: 23.5V

- Peak Power (Tool):   150W per tool
- Selectable Temperature: 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: ±3% using reference cartridge
- Temp Adjustment: ±50°C / ±90°F Through station settings menu
- Tip to Ground Voltage/Resistance: Meets and exceeds
    ANSI/ESD S20.20-2014   IPC J-STD-001F
- Ambient Operating Temp: 10 - 50 °C / 50 - 122 °F
- Connections: USB-A: Firmware Update,
    Grafics and Profiles,
    Dino-Lite USB Microscope
    (models AM2011, AM2111)
    USB-B: PC Communication
    RJ12:   Fume Extractor/Peripherals/Robot

- Control Unit Dimensions / Weight: 232 x 148 x 120 mm / 4.57 kg
  (L x W x H)   9.13 x 5.83 x 4.72 in / 10.08 lb

- Total Package Dimensions / Weight: 258 x 328 x 208 mm / 4.97 kg
  (L x W x H)   10.16 x 12.91 x 8.19 in / 10.96 lb

Complies with CE standards.
ESD safe.

JBC

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

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