

# JBC

[www.jbctools.com](http://www.jbctools.com)

## INSTRUCTION MANUAL



### DMP

4-Tool DMU Precision Rework &  
Desoldering Station

# Packing List

The following items are included:

**DME Control Unit** ..... 1 unit  
 Ref. DMU-1A (120V)  
 DMU-2A (230V)  
 DMU-9A (100V)



**Stand** .....2 units  
 Ref. AD-SE



**General Purpose Handle** ..... 1 unit  
 Ref. T245-A



**Electric Desoldering Module** ..... 1 unit  
 Ref. MSE-A



**Stand** ..... 1 unit  
 Ref. DR-SE



**Precision Purpose Handle** .....1 unit  
 Ref. T210-A



**ESD Tip Cleaner** ..... 1 unit  
 Ref. CL8499



**Stand** ..... 1 unit  
 Ref. AM-SA



**Adjustable Micro Tweezers** .....1 unit  
 Ref. AM120-A



**Brass Wool** ..... 1 unit  
 Ref. CL6210



**Sponge** ..... 1 unit  
 Ref. S0354



**Metal Brush** .... 1 unit  
 Ref. CL6217



**Cotton Filter** .....1 unit  
 Ref. 0781046  
*It contains 10 filters*



## DR560 Accessories

Ref. 0022819

**Tip cleaning set** ..... 1 unit  
Ref. 0965970



**Long Tip Cleaning set** ..... 1 unit  
Ref. 0965760



**Glass solder collector** ..... 1 unit  
Ref. 0812620



**Spanner** ..... 1 unit  
Ref. 0780550



**Filter Box** ..... 1 unit  
Ref. 0780840  
*It contains 10 filters*



**Internal gasket** ..... 1 unit  
Ref. 0019208  
*It contains 2 gaskets*



**Metal solder collector** ..... 1 unit  
Ref. 0812630



**Suction Filter** ..... 1 unit  
Ref. 0821830



**Filter Box** ..... 1 unit  
Ref. 0005966  
*It contains 50 filters*



**Cartridge holder** ..... 1 unit  
Ref. SCH-A



**Module Cable** ..... 1 unit  
Ref. 0024558



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



**Cleaning stick** ..... 1 unit  
Ref. 0786640



**Power cord** ..... 1 unit  
Ref. 0010569 (230V)  
0012880 (100/120V)



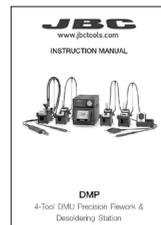
**Stand Cable** ..... 4 units  
Ref. 0024227



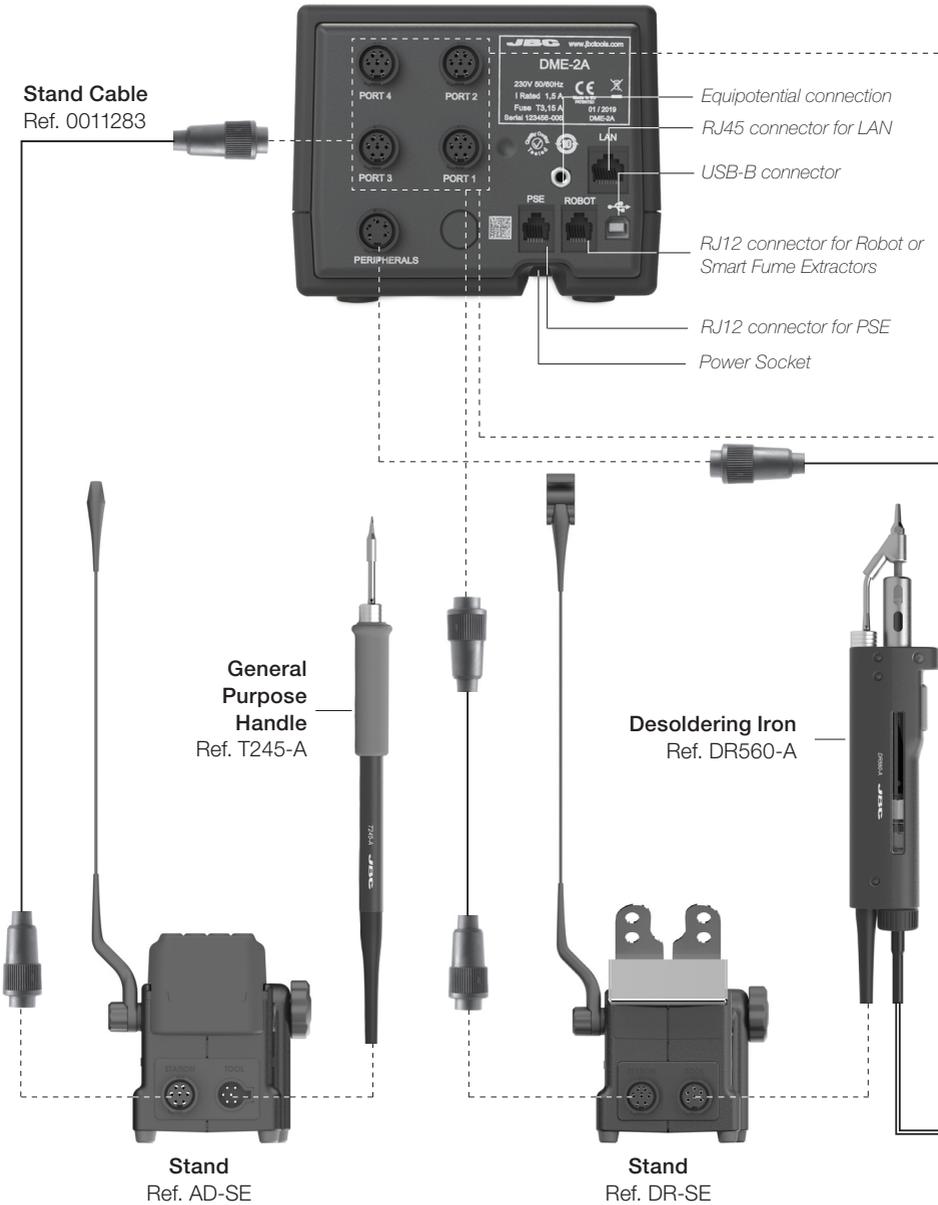
**Union Flanges** ..... 1 unit  
Ref. 0011356

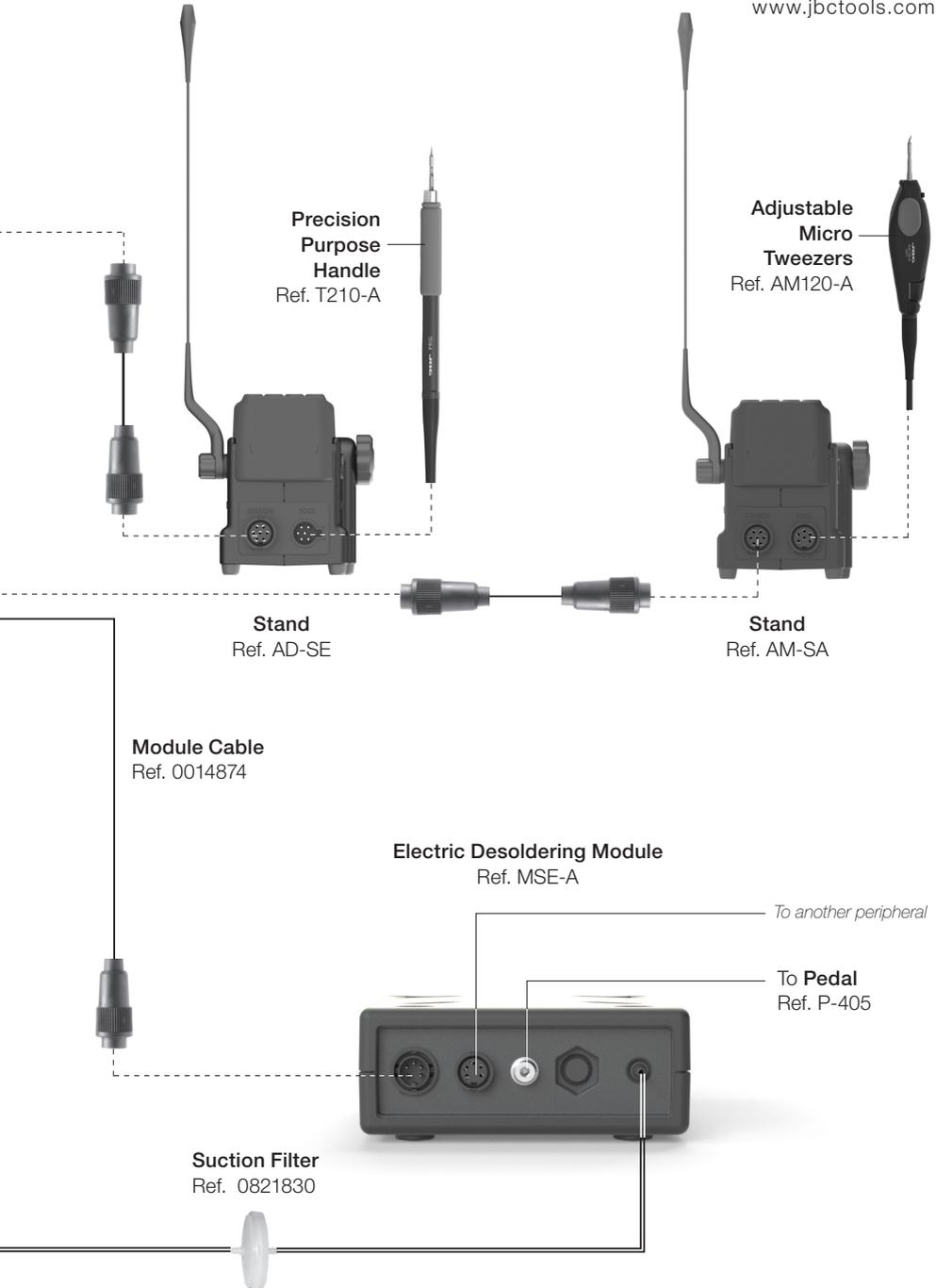


**Manual** ..... 1 unit  
Ref. 0025136



# Connections





# Features

3.5" Color TFT Touch screen

USB-A connector

Tilt the display for easy reading



Main Switch

## Work Screen

The DME-A 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

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

**Cartridge in use**  
Introduce the reference for more precise temperature accuracy

**Tool in use**  
Press on the tool image to see the Ports Screen

## Troubleshooting

Station troubleshooting available on the product page at [www.jbctools.com](http://www.jbctools.com)

## Menu Screen

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

The menu screen features a top status bar with a lock icon, a speaker icon, the time 17:14, a question mark icon, a back arrow, and a home icon. Below this is a grid of eight icons: Station, Tools, Peripherals, Counters, Utilities, Profiles, Language, and Reset. Callouts provide details for several options:

- Configure tool settings for each port**: Points to the Tools icon.
- Link station ports with modules and pedals**: Points to the Peripherals icon.
- Registers total and partial hours for each port: work, sleep, hibernation...**: Points to the Counters icon.
- Personalize the Station:** Station name, PIN activation, Screen settings, Robot activation, Partial resets...: Points to the Station icon.
- Utilities**: Useful additional applications that complement and support your work.: Points to the Utilities icon.
- Multi-Language**: 10 languages to choose from.: Points to the Language icon.

## Advanced functionalities



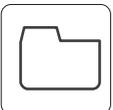
### Graphics

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.



### The first system to optimize traceability in soldering

- Get greater quality and control in your production
- Manage your whole soldering process remotely in real time



### Files

### Export graphics

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



### Update

### Station update

Download the JBC Update File from

[www.jbctools.com/software.html](http://www.jbctools.com/software.html)

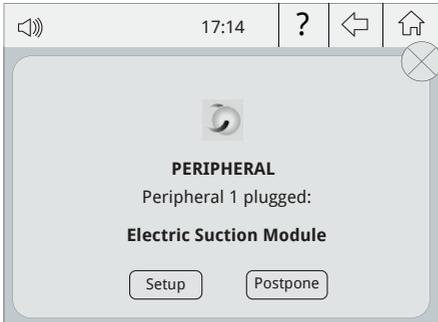
Insert the USB flash drive with the file downloaded to the station.

# MSE / Pedal Initial Setup

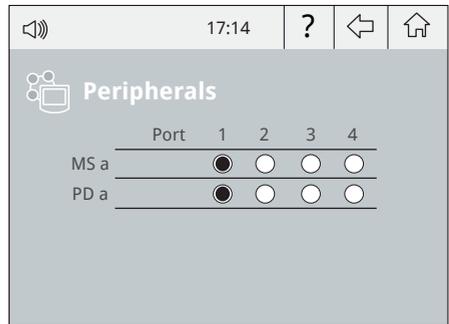


After connecting the electric desoldering module (MSE-A), a popup window is opened.

## Peripherals



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, you can change the module settings by entering the **Peripherals** Menu.

# Simultaneous Ports Control

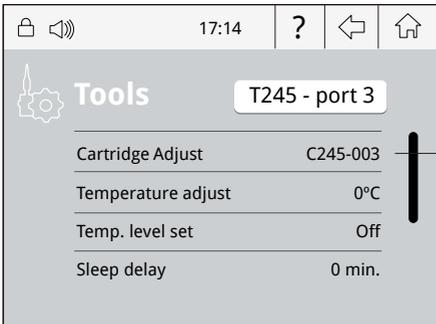
See the information for all ports in real time when pressing the tool image on the Work screen.

**Tool Status**  
Tip temperature,  
Sleep or  
Hibernation

		17:14	?	MENU			
Port 1	C560-903		Hibern.	Port 2	C560-001		Sleep
Port 3	C120-001		350°	Port 4	C210-001		Hibern.

**Tool port**  
Press any port  
to show on the  
Work Screen

## Cartridge Adjustment



Insert the cartridge model and the station will recognize its characteristics (size and shape) to provide better temperature precision.

*After inserting the cartridge, introduce the last 3 numbers of its reference.*

## 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.
-  Station software update.  
Press INFO to start the process.

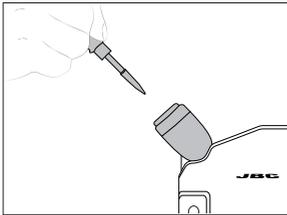
-  Warning.  
Press INFO for failure description.
-  Error.  
Press INFO for failure description, the type of error and how to proceed.
-  Indicates there is a peripheral to be installed.

# Operation

## The JBC Most Efficient Soldering System

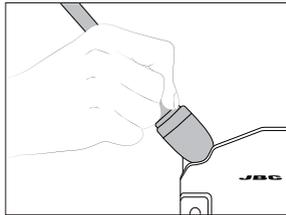
Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the soldering quality. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase up to 5 times the life of the tip.

### 1. Work



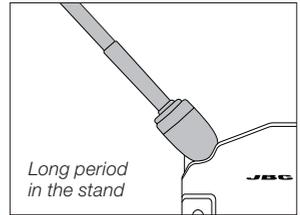
When the tool is lifted from the stand the tip will heat up to the selected temperature.

### 2. Sleep

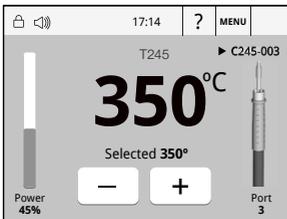


When the tool is in the stand, the temperature falls to the preset Sleep temperature.

### 3. Hibernation



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



#### Tools Menu:

- Adjust temperature limits and cartridge.
- Set temperature levels.



#### Tools Menu:

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



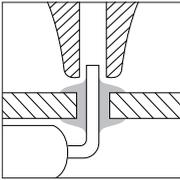
#### Tools Menu:

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

## Desoldering process

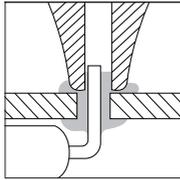
Use a tip with a larger diameter than the pad to achieve maximum aspiration and thermal efficiency.

### 1. Placing



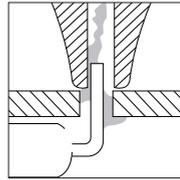
Place the tip over the lead.

### 2. Rotating



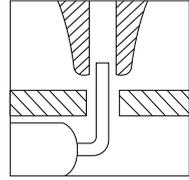
When the solder melts, gently move the tip in a circular motion.

### 3. Aspirating



Press and hold the tool button to start the suction and continue the movement completing 3 or 4 circles.

### 4. Removing



Remove the tip while maintaining the suction to make sure all the solder is removed from the joint.

If any solder remains are left on a terminal after desoldering it, resolder it with fresh solder and repeat the desoldering operation.

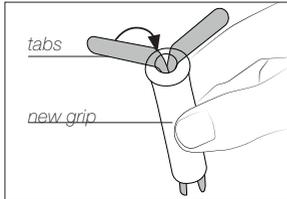
If desoldering tips does not provide enough heat to desolder leads from ground planes, consider using a preheater PCB.

## Changing Grips\*

Replace the soft foam grips easily using the slip-on tabs. **Note:** Choose the correct grip depending on your handle model.

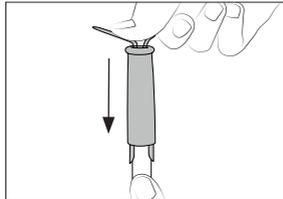
Handles	Green grips	Blue grips	Black grips
T210, T210P, T210N	T8658	T3310	T3311
T245, T245G, T245P	T6057	T1528	T1530

### 1. Inserting Tabs



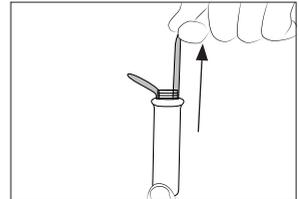
Put the slide-on tabs into the new grip.

### 2. Inserting Handle



Push the grip with the tabs onto the handle.

### 3. Removing Tabs



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

## Replacing Sealing Plugs

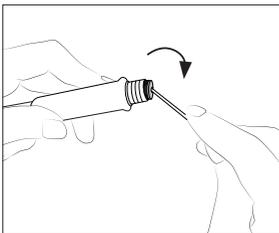
The sealing plug prevents undesirable flux vapors or particles from entering inside the tool. Its usage is highly recommended for intensive applications when soldering is exposed to FOD environments or for applications where the soldering iron works close to vertical position.

**Note:** Choose the correct sealing plug depending on your handle model.

⚠ Before replacing the sealing plug, unplug the power supply and make sure the device is not hot.

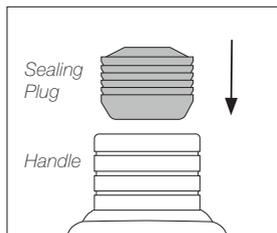
Handles	Sealing Plug
T210	OB1000
T245, T470	OB2000

### 1. Removing Sealing Plug



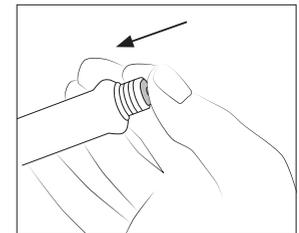
Enter, not deeper than 8mm, a small shaft or screwdriver, lift and pull the sealing plug. Never use a cartridge to do this operation.

### 2. Mounting Position



**Note:** The chamfered side has to be positioned towards the handle.

### 3. Inserting Sealing Plug



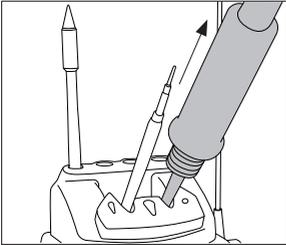
Push the sealing plug inside the handle until the sealing plug and handle edges are aligned.

\* not included, sold separately

## Quick Tip Changer

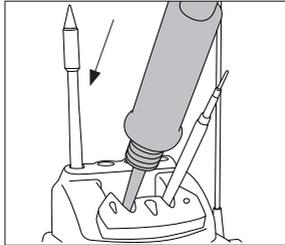
Save time and change cartridges safely without switching the station off. Be careful, the cartridges may be hot, when placing them in the storage rack.

### 1. Removing



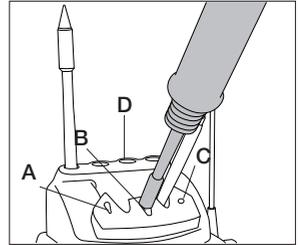
Place the cartridge in the extractor and pull the handle to remove it.

### 2. Inserting



Place the handle on top of the new cartridge and press down.

### 3. Fixing



Use the holes to fix the cartridge as follows:

**A.** For curved C210

**B.** For C245

**C.** For straight C210

**D.** cartridge Storage rack

**Important:** It is essential to insert the cartridge as far as the mark for a proper connection.



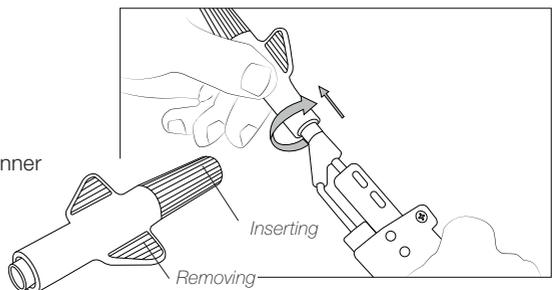
## DR560 Changing Tips

### 1. Removing

Unscrew the tip using the spanner supplied.

### 2. Inserting

Fit the new tip and tighten with the spanner to make sure it is air tight.

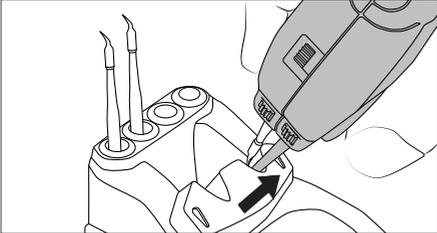


The DR560 uses C560 tips.

Find the model that best suits your soldering needs in [www.jbctools.com](http://www.jbctools.com)

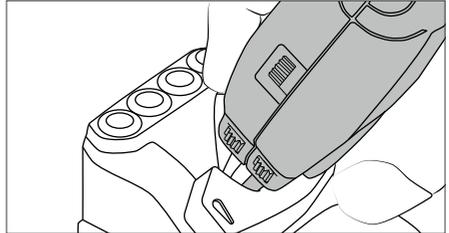
# AM120 Changing cartridges

## 1. Removing



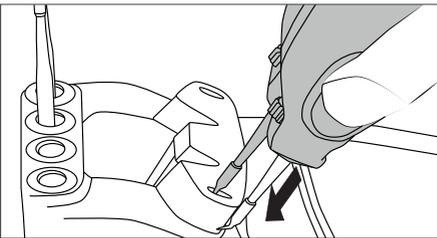
Place the cartridges in the extractor and pull the tweezers to remove them.

## 2. Positioning



Place the tweezers on top of the new cartridge and slightly press down.

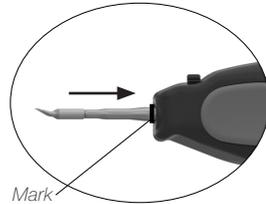
## 3. Inserting



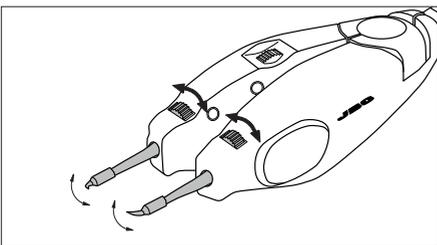
Use the grooves to insert the cartridges as far as the mark\*.

### \*Important

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

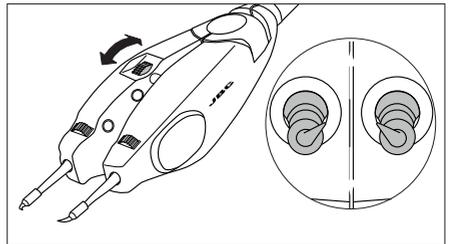


## 4. Rotational Cartridge Alignment



Slightly turn the wheels to align the cartridges as required.

## 5. Vertical Cartridge Alignment



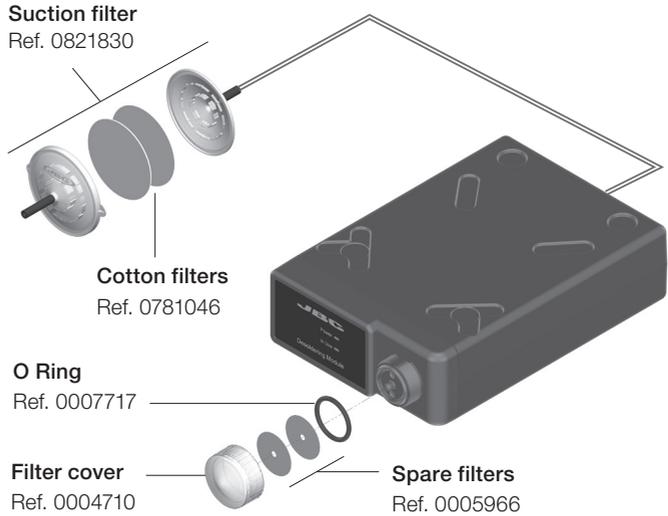
The rear wheel allows the cartridges to be equally aligned when you close the tweezers.

## MSE Changing the pump filters

- Keep the casing clean by using a damp cloth. Periodically check all cable and tube connections.
- Keep filters clean to ensure proper solder suction and replace them when necessary.

### Important

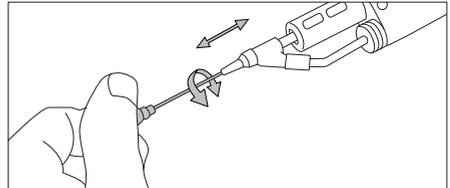
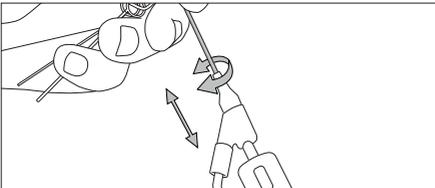
Do not use sharp pointed objects to open the suction filter.



## DR560 Maintenance

### Tip Care

The intake tube should be periodically cleaned with the largest rod possible.

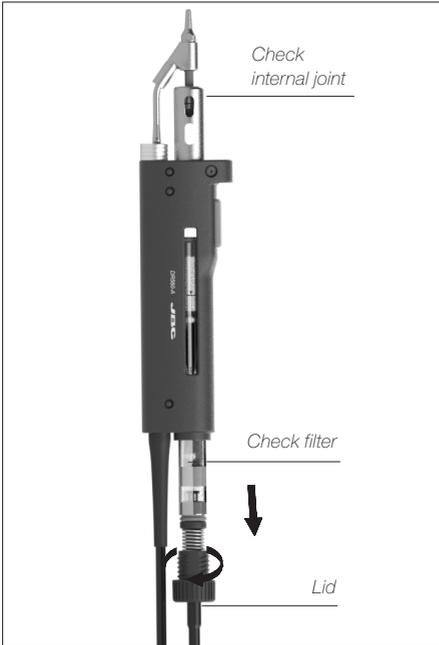


### Important

DO NOT press the vacuum pump button while tinning the desoldering tip, as the fumes given off by the flux would quickly block the ducts and the air filter.

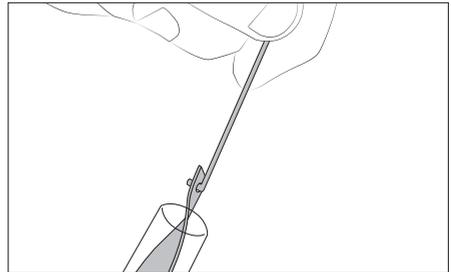
# Glass Solder Collector Cleaning

## 1. Removing the lid

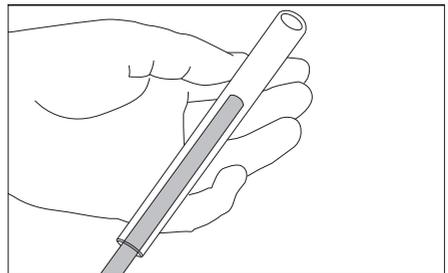


The lid must be unscrewed with the DR560 in a vertical position.

## 2. Cleaning



Remove the coil and clean the inside of the glass solder collector with the cleaning stick.



Check the filter and replace it if it is dirty or damaged.

## 3. Inserting the glass solder collector

The glass solder collector must be inserted with coil filter in place, positioned between the 2 lines marked. Then the whole unit must be closed by screwing the lid.



## CLM Features

Improve thermal transfer by cleaning the tip after each solder joint.

### Brass wool

Ref. CL6210

*Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and reflowing.*

### Splashguard

Ref. 0017576

*It prevents splashing of solder particles when using the brass wool.*

### Antisplash Membrane

Ref. 0017574

*Prevents splashing to maintain the work area clean.*



### Sponge

Ref. S0354

*The least harmful cleaning method. Keep the sponge damp with distilled water when working to avoid tip wear.*

### ESD Tip Wiper

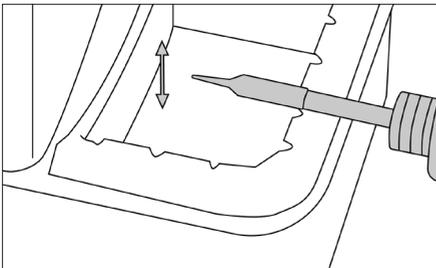
Ref. CL0240

*A temperature resistant receptacle lets the operator remove excess solder by gentle tapping or wiping.*

### Non-slip base

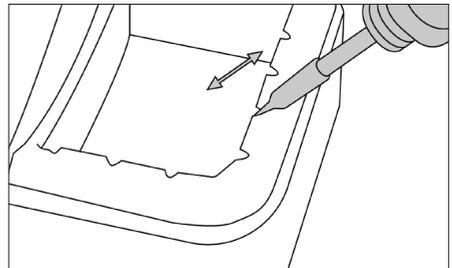
*No need to hold the base while cleaning tips.*

Tapping:



*Tap to remove excess solder.*

Wiping:



*Use the slots to remove remaining particles.*

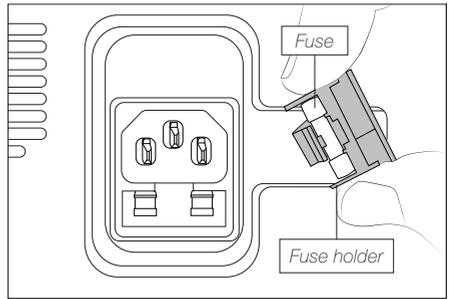
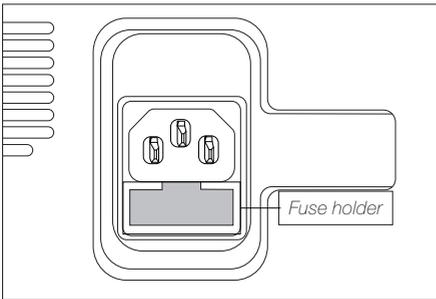
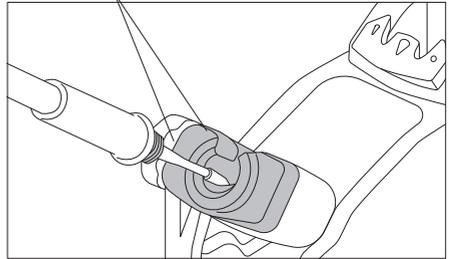
# Maintenance

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 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*



**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 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 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

### DMP

#### 4-Tool DMU Precision Rework & Desoldering Station

Ref. **DMPSE-9QA** (100V)

Ref. **DMPSE-1QA** (120 V)

Ref. **DMPSE-2QA** (230 V)

<b>DMU-9A</b> 100V 50/60Hz. Input fuse:	T-8A. Output: 23.5V
<b>DMU-1A</b> 120V 50/60Hz. Input fuse:	T-3.5A. Output: 23.5V
<b>DMU-2A</b> 230V 50/60Hz. Input fuse:	T-3.15A. Output: 23.5V
- Output Peak Power: 160W 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: ±3% using reference cartridge	
- Temp adjustment: ±50°C / ±90°F Through station menu setting	
- Tip to ground voltage/resistance: Meets and exceed ANSI/ESD S20.20-2014 IPC J-STD-001F	
- Ambient operating temp: 10 - 50 °C / 50 - 122 °F	
- Connections: USB-A / USB-B / Peripherals connectors RJ12 connector for Robot	
- Control Unit Dimensions / Weight: 148 x 120 x 232 mm / 4.57 kg (L x W x H) 5.8 x 4.7 x 9.1 in / 10.08 lb	
<b>MSE-A</b>	
- Ambient Operating Temperature: 10 - 50 °C / 50 - 122 °F	
- Vacuum: 75% / 570 mmHg / 22.4 inHg	
- Flow rate: 9 SLPM	
- Peripheral Dimensions / Weight: 145 x 55 x 225 mm / 1.2 kg (L x W x H) 5.71 x 2.17 x 8.86 in / 2.7 lb	
- Total Package Dimensions / Weight: 480 x 370 x 380 mm / 14,71 kg (L x W x H) 18.9 x 14.6 x 15.0 in / 32.43 lb	

Complies with CE standards.

ESD safe.

# JBC

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## 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.**

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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.



[www.jbctools.com](http://www.jbctools.com)