

JBC

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INSTRUCTION MANUAL



DT530

Angled Desoldering Iron

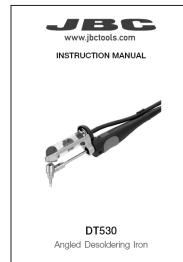
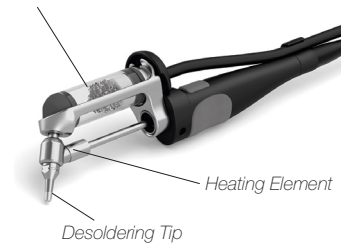
This manual corresponds to the following reference:

DT530-A

Packing List

The following items are included:

*Glass solder-collector
with gaskets and filters*



Angled Desoldering Iron 1 unit

Already assembled:

- Ref. D530003 Through-Hole Desoldering Tip Ø 1 (1x)
- Ref. DTH-A Heating Element for DT530
- Glass solder-collector with gaskets and filters (see next page for references)

Manual 1 unit

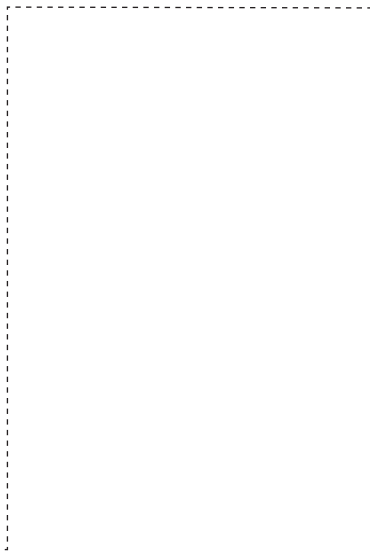
Ref. 0032496



Box with Accessories 1 box

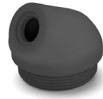
Ref. DT100

It includes:





Glass Solder-Collector 2 unit
Ref. DT20



Frontal Gasket 1 set
Ref. DT30 (contains 5 gaskets)



Rearward Gasket 1 set
Ref. DT35 (contains 5 gaskets)



Spanner 1 unit
Ref. DT50



Wool Filter for DT530 1 set
Ref. DT10 (contains 10 filters)



Metal Filter for DT530 1 set
Ref. DT11 (contains 10 filters)



Heat-Resistant Gripper 1 unit
Ref. DT60



Cleaning Brush 1 unit
Ref. 0008297



Metal Brush 1 unit
Ref. CL6217



Tip Cleaning Set ... 1 unit
Ref. 0965970

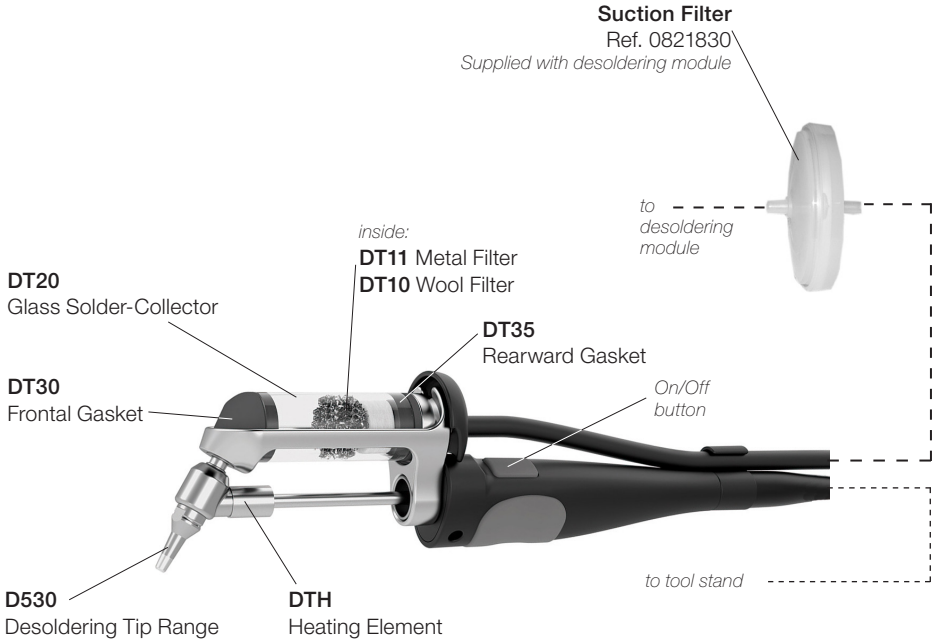


Helical Tip-Cleaning Rods 1 unit
Ref. 0965760



Precision Allen Screwdriver 2.5 1 unit
Ref. 0033474

Connections



Features

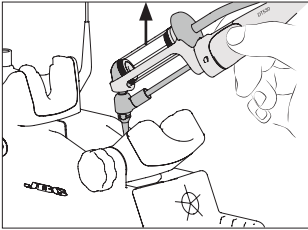
DT530 Desoldering Iron is used for desoldering jobs of through-hole components and removing excess solder after SMD rework. It must be connected to an electric or pneumatic desoldering module and to the tool stand.

JBC Most Efficient Soldering System and the suction power from MSE or MVE pumps ensure optimal quality of work.

JBC's Most Efficient Soldering System

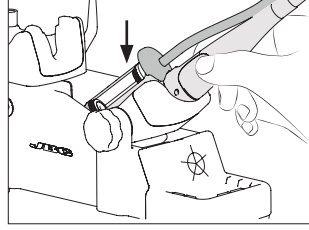
JBC's technology allows to recover tip temperature extremely quickly. This means that the user can work at a lower temperature. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase the lifespan of the tip.

Work



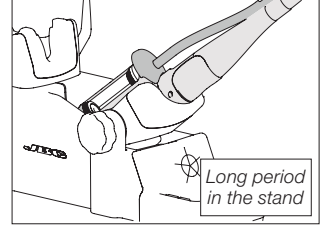
When the tool is lifted from the stand, the tip will heat up to the selected operating temperature.

Sleep



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

Hibernation



After longer periods of inactivity, the tool goes into Hibernation Mode: the power is cut off and the tool gradually cools down to room temperature.

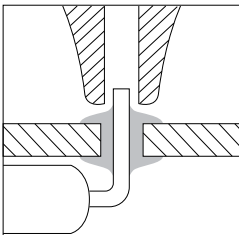
Through the control unit's Tool Settings, it is possible to set and adjust:

- temperature levels (min. and max. operating temperature),
- Sleep temperature and the activation delay for Sleep Mode (0-9 minutes or no Sleep),
- and the activation delay for Hibernation Mode (0-60 minutes or no Hibernation).

Desoldering Process

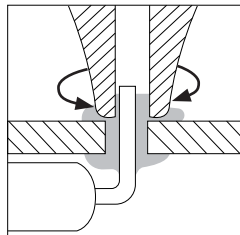
Use a tip (D530 Tip Range, see page 7) with a larger diameter than the diameter of the pin to be desoldered to achieve maximum aspiration and thermal efficiency.

1. Placing



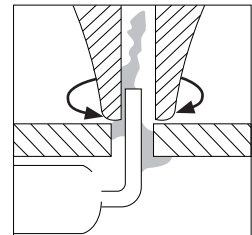
Place the tool so that the end of the component's tip fits inside the desoldering tip.

2. Circular movement



As the solder joint liquifies, gently describe circles around the pin, using the pin as the axis of your movement.

3. Aspirating



Press the tool button long enough to suction the liquified solder.

After releasing the tool button there is a slight delay until the vacuum pump of the desoldering module stops. This makes sure that the tip duct is completely empty. If any solder remains on a component's pin after the desoldering process, resolder it with fresh solder and repeat the desoldering operation.

Tip Cleaning

Select the option that best suits your needs to clean the tip and improve its thermal transfer.

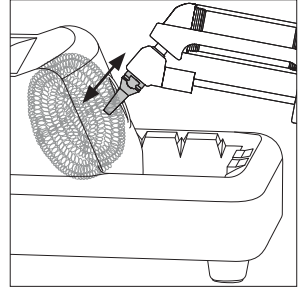
Brass Wool

CL6210

Brass Wool

Very effective cleaning method. Leaves a small layer of solder on the tip preventing oxidation between cleaning and rewetting.

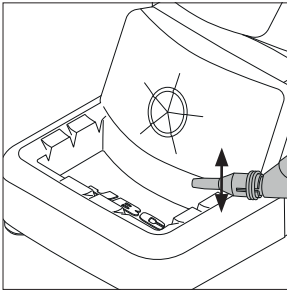
If the tip is very dirty, JBC recommends cleaning it first with the wiper to remove excess solder.



Wiper

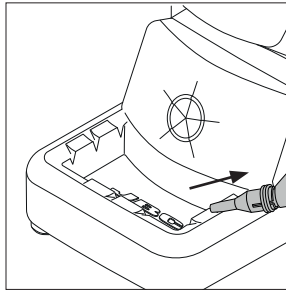
The integrated wiper offers different ways to clean the tips.

Tapping



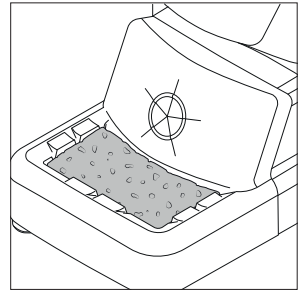
Tap gently to remove excess solder.

Wiping



Use the slots to remove the remaining particles.

Sponge



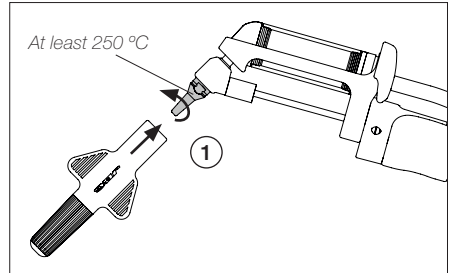
A damp sponge is the softest cleaning method. When working, keep the sponge damp using distilled water to avoid tip wear.

Changing Tips

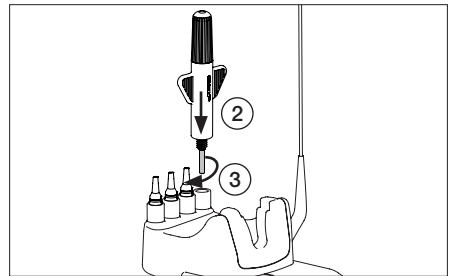
This operation should be done while the tip is hot and at a minimum temperature of 250 °C, so that any tin left inside is still molten, facilitating the removal of the tip.

Removing

Use JBC's spanner to unscrew the tip (1). The tip will remain attached to the spanner so that it can be moved safely.

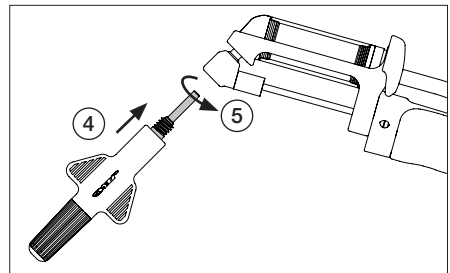


To remove the tip from the spanner, simply place the tip in one of the holes on the stand (2), screw it in slightly (3) and pull the spanner out.



Inserting

Grab the new tip with the spanner. Fit it into the heating element (4) and screw it in with the spanner (5). Screw the tip all the way in so that the union is air-tight.



Compatible Tips

DT530 uses D530 tips. Different sizes are available for through-hole desoldering and for pad cleaning. Find the model that best suits your soldering needs at: www.jbctools.com

Through-Hole
Desoldering

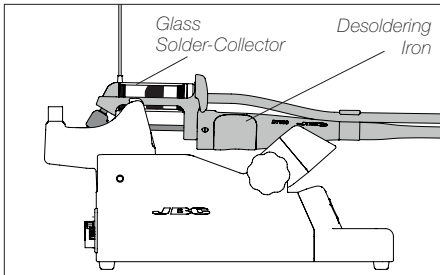


Pad Cleaning



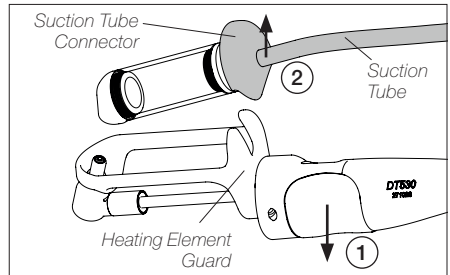
Cleaning the Glass Solder-Collector

⚠ Be careful when handling the solder collector, it can be hot. Let it cool down first.

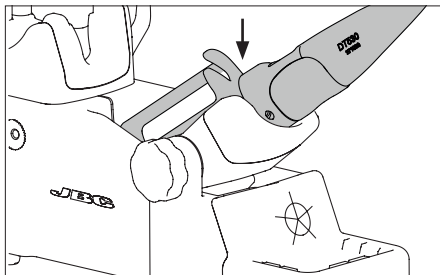


The glass solder-collector is designed to be cleaned and reused.

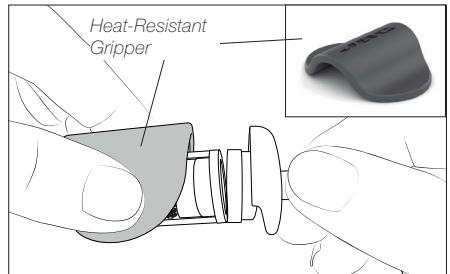
To remove and clean the glass solder-collector place the desoldering iron in horizontal position onto the stand.



While holding the tool with one hand down onto the stand (1), grasp the suction tube at the point where it meets the suction tube connector and pull upward (2) to unlock the solder-collector from the heating element guard.

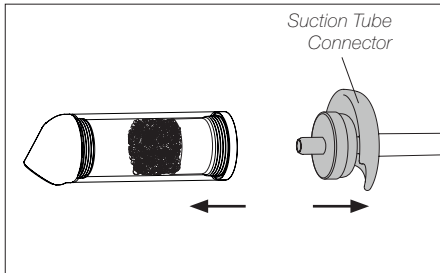


Place the tool, without the solder-collector, onto the tool holder so that the tool enters Sleep Mode.

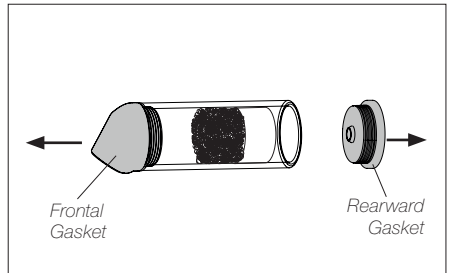


It is recommended to use the heat-resistant gripper to handle the solder collector if it is still hot. The gripper shape adapts perfectly to that of the collector.

Removing the Glass Solder-Collector

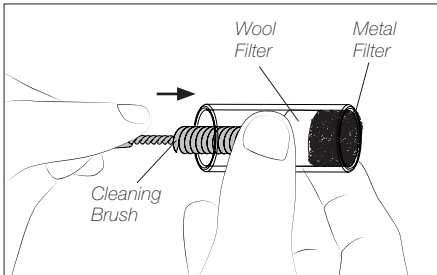


Separate the suction tube connector from the solder-collector by gently pulling both in opposite directions.

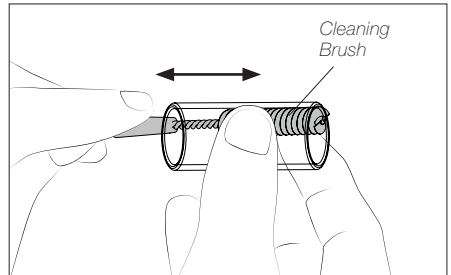


Remove both solder collector gaskets (3) by pulling them out.

Cleaning the Glass Solder-Collector

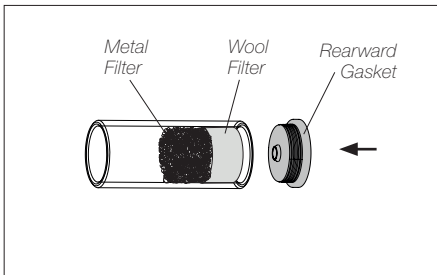


Use the provided cleaning brush to push both filters out of the tube.

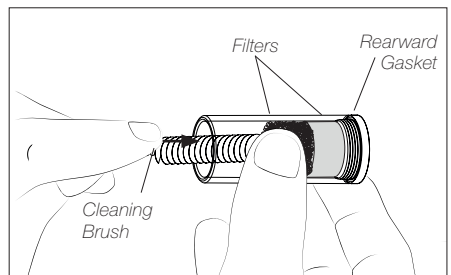


Clean the glass tube using the cleaning brush. Clean with alcohol if necessary.

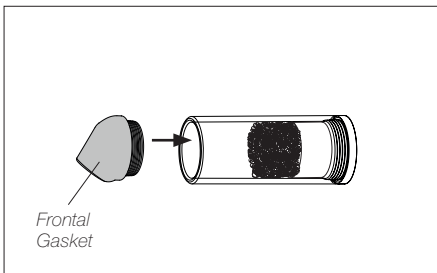
Reassembling the Glass Solder-Collector



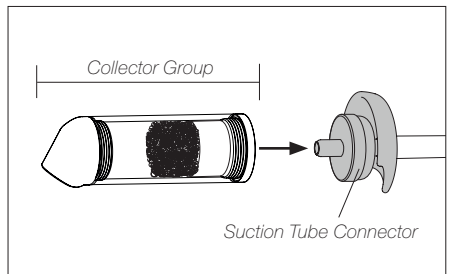
Insert both filters into the collector, use new filters if necessary. Then insert the rearward gasket on the side of the wool filter.



Push both filters as far as possible against the rearward gasket using the cleaning brush.

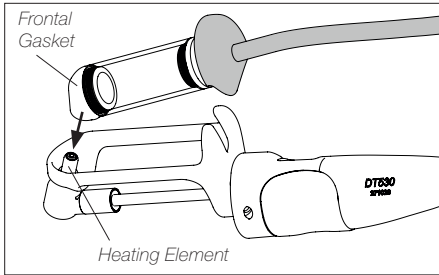


Insert the frontal gasket into the other side of the glass solder-collector.

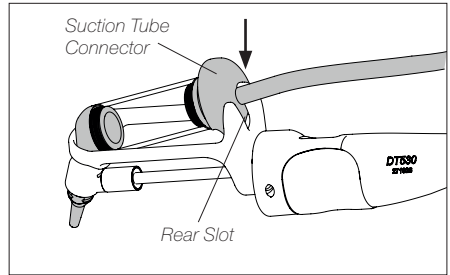


Insert the fully assembled collector group onto the suction tube connector.

Inserting the Glass Solder-Collector into the Tool



Insert the collector group with its front gasket onto the heating element.




Then bring it down until the suction tube connector fits into the rear slot of the heating element guard.

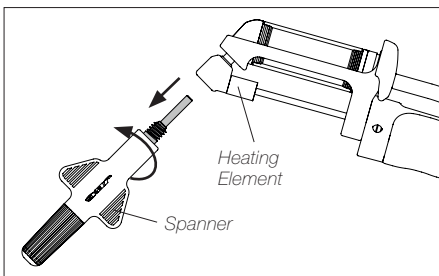
Changing the Cardboard Solder-Collector

DT20 Cardboard Solder-Collectors are designed as a throwaway product. There is no need to clean the cardboard solder-collector. Throw it away and replace it for a new one. This saves time and makes replacement easier and faster.

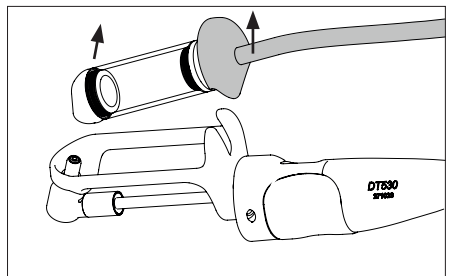
The steps for replacing the cardboard solder collector can be found on the previous pages in the description of the glass solder collector.

Changing the Heating Element

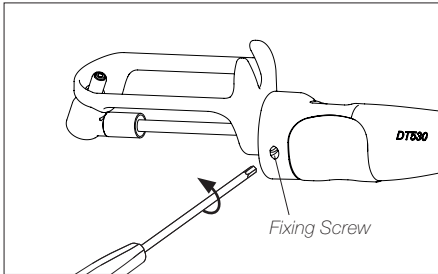
 For this operation, turn off the station or disconnect the tool and wait until the equipment has cooled down to room temperature.



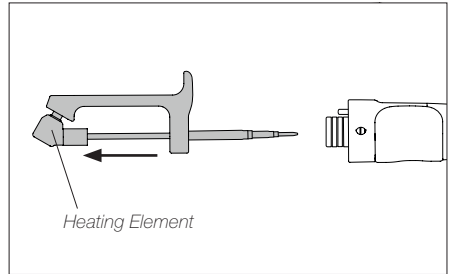
If the heating element has a tip on, remove it with the provided spanner.



Detach the solder-collector together with the suction tube from the desoldering iron.

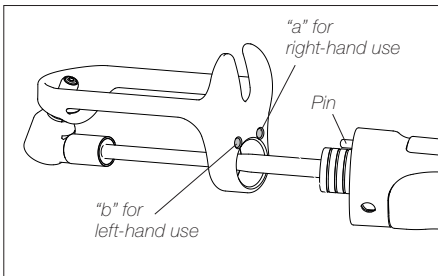


Loosen the fixing screw.



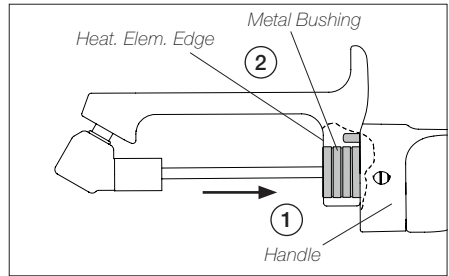
Then pull out the heating element.

Left-hand / right-hand use:



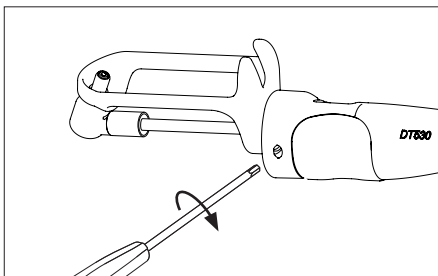
The heating element has two assembling positions, allowing the desoldering iron to be used with either the right or the left hand.

For right-hand use, insert the pin into the hole "a" and for left-hand use, into the hole "b".

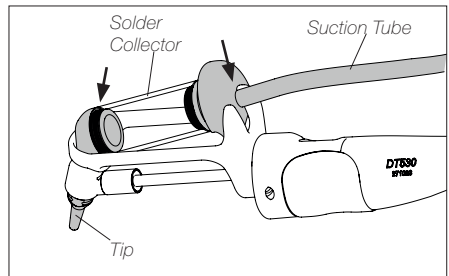


Once the heating element is in the desired position assemble it into the desoldering iron handle (1).

Note: ⚠ Make sure that the heating element is pushed all the way in. The metal bushing of the handle should be aligned with the edge of the heating element for a proper connection (2).



Tighten the fixing screw.

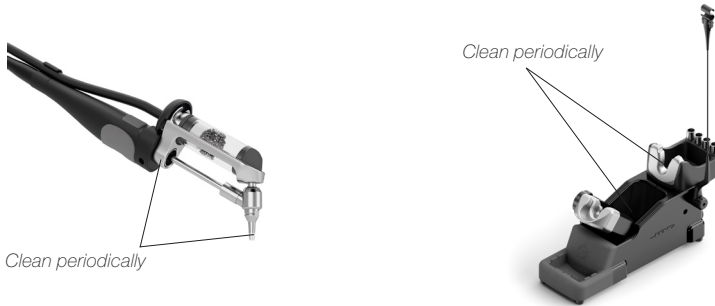


Place back the solder-collector with the suction tube, and screw the tip onto the heating element.

Maintenance

General Maintenance

- Before carrying out maintenance, always unplug the stand and the tool. Allow the equipment to cool down.
- Check periodically that the metal parts of the tool and the stand are clean to ensure detection of the tool when it is in the stand. Use a damp cloth or alcohol.



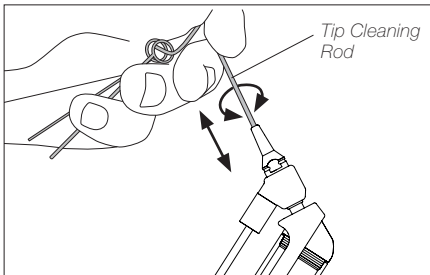
- Periodically check all cables and tubes connections.
- The wool, filter and gaskets of the solder-collector should be periodically checked and replaced when worn or clogged with solder residues.
- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.
- Before storing the equipment, remember to tin the tips to prevent oxidation.



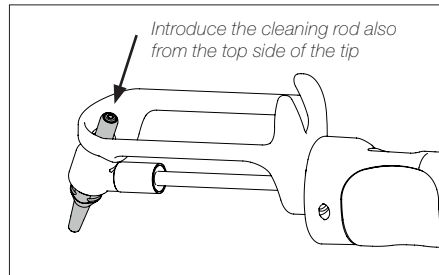
Do not press the tool button while tinning the desoldering tip, as the fumes given off by the flux would quickly block the ducts and the air filter.

Duct Maintenance

- To avoid clogging or pressure loss, it is necessary to carry on regular maintenance on the tips and to be attentive to the condition of solder-collectors, gaskets and filters.



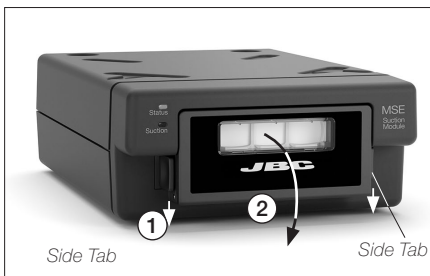
The inside of the tip should be periodically cleaned with the largest possible rod. Choose between the straight and helical cleaning rods provided with the tool.



It is recommended to clean the tip also from its top with the cleaning rod. Leave the tool in horizontal position on the stand and remove the solder collector to access to the top of the tip.

Module Filter Maintenance

- The module also has a filter that should be checked regularly to ensure right circulation of air through the ducts and an appropriate pressure.



Slide down (1) the side tabs on the front cover of MSE to open it (2).



Extract the filter by pulling it out of the fixing clips. Take a new filter and press it in place. Finally close the front lid.



It is recommended to close the front lid by simultaneously pressing against both upper corners until a click is heard.

Safety



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

- Do not use the device for any purpose other than soldering/desoldering or rework. Incorrect use may cause fire.
- 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. Tips and other metal parts of the tool and the stand may still be hot after the station is turned off. Handle with care, even when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Avoid flux coming into contact with skin or eyes to prevent irritation
- Be careful with the fumes produced when working.
- 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 as well as persons with reduced physical, sensory or mental capabilities or lacking 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

DT530

Angled Desoldering Iron

Ref.: **DT530-A**

- | | |
|---|--|
| - Net weight: | 335 g / 0.74 lb |
| - Package Dimensions / Weight:
(L x W x H) | 245 x 185 x 45 mm / 412 g
9.65 x 7.28 x 1.77 in / 0.91 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.



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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