

JBC

www.jbctools.com



**Precision Hot Air Station
without extractor desk**

Ref. TESE-QA

Packing List

The following items should be included:

TESE Control Unit 1 unit
Ref. TESE-1A (100V / 120V)
TESE-2A (230V)



Heater hose set 1 unit
Ref. TE-TB



Stand1 unit
Ref. TE-SD



**Thermocouple
type K**1 unit
Ref. PH218



Nozzles3 units
Ref. TN9209 Ø 3mm [0.12in]
TN9208 Ø 4mm [0.16in]
TN9080 Ø 5mm [0.20in]



Power cable1 unit
Ref. 0009417 (100V / 120V)
0009401 (230V)



Manual1 unit
Ref. 0019585



Features



USB-A connector



Thermocouple type K

Activates the suction pump

Suction Tube
For tripods and extractors



Heater Hose set
Ref. TE-TB

Heating element

Hot Air button
(On / Off)

Stand
Ref. TE-SD

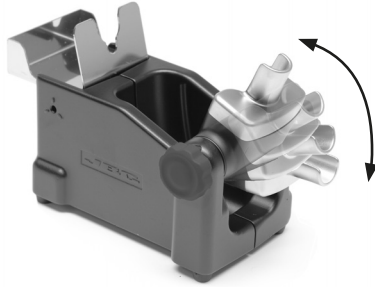


Auxiliar connector
Equipotential connector
USB connector
Robot RS232 connector
Power Socket
Fuse

P-005 Pedal connector

Adjustable Stand

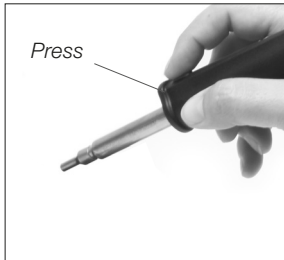
Adjust the tool holder angle to suit your work position.



Operation Modes

1. From the Tool Settings Menu, select the mode to activate the tool depending on the task.

Tool button



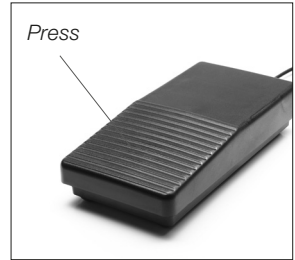
Press the start/stop button to blow hot air.

Autostart



The tool automatically starts blowing hot air when lifted from the stand.

Pedal*



Press the Pedal to blow hot air and release to stop.

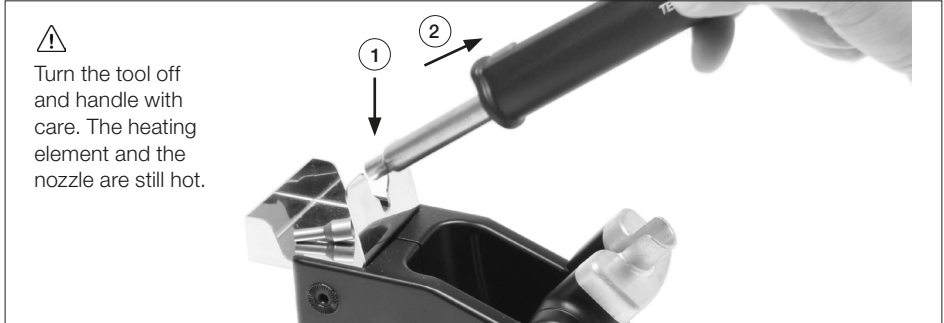
*The **P-005** Pedal is not supplied with this station. See our website.

2. The tool stops blowing when pressing the start/stop button. If the stand is connected to the station and for safety it will also stop when returned to the stand.



Quick Nozzle Changer

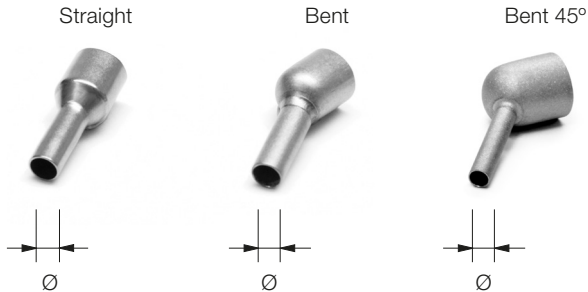
Changing nozzles quickly and safely.



Compatible Nozzles

The TE-TB Heater works with TN nozzles.

Find the model that best suits your soldering needs in www.jbctools.com



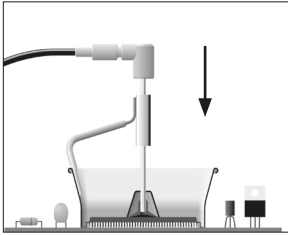
*	Ref.	Shape	Ø Size (mm)	Ø Size (in)
*	TN9209	Straight	3	0.12
*	TN9208	Straight	4	0.16
*	TN9080	Straight	5	0.20
	TN9787	Bent	3	0.12

*	Ref.	Shape	Ø Size (mm)	Ø Size (in)
	TN9785	Bent	4	0.16
	TN9782	Bent	5	0.20
	TN8851	Bent 45°	3	0.12
	TN8905	Bent 45°	4	0.16
	TN9561	Bent 45°	5	0.20

* Included

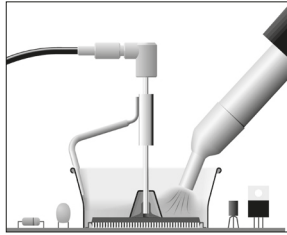
Operation

1. Placing



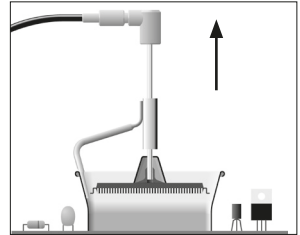
Position the extractor with the appropriate suction cup and press the suction button.

2. Heating



Heat the component.

3. Extracting



The component lifts off automatically when the solder melts.

Using the Thermocouple type K

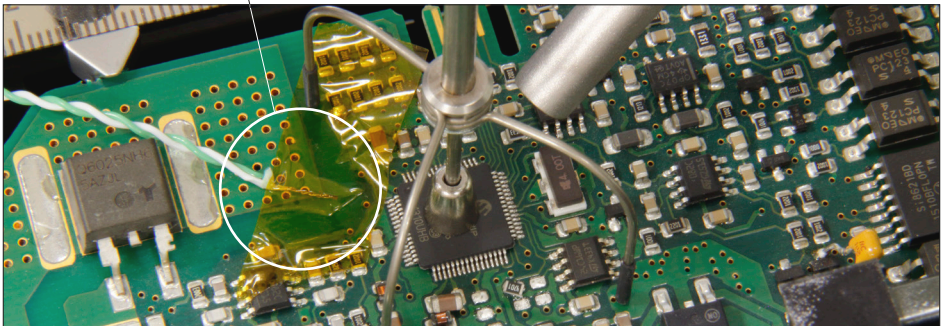
Connect a TC type K (PH218) to the station and use it as a protection or regulation sensor. You can define its use mode by means of the “Ext TC mode” option in the “Tool” menu.

You can choose from **two work modes**:

Regulation: the station regulates the air temperature automatically to maintain the External Thermocouple (TC) temperature.

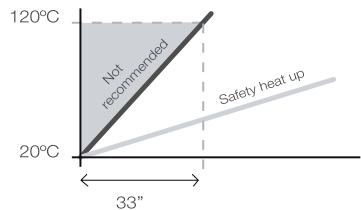
Protection: the station cuts the air supply off when the External Thermocouple (TC) temperature is reached.

Fix the TC with Kapton Tape (Ref. PH217) as near as possible to the component being worked on. If Kapton tape is not ESD you must use an ionizer.



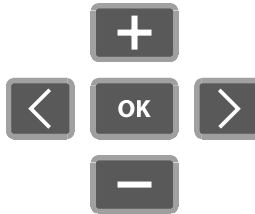
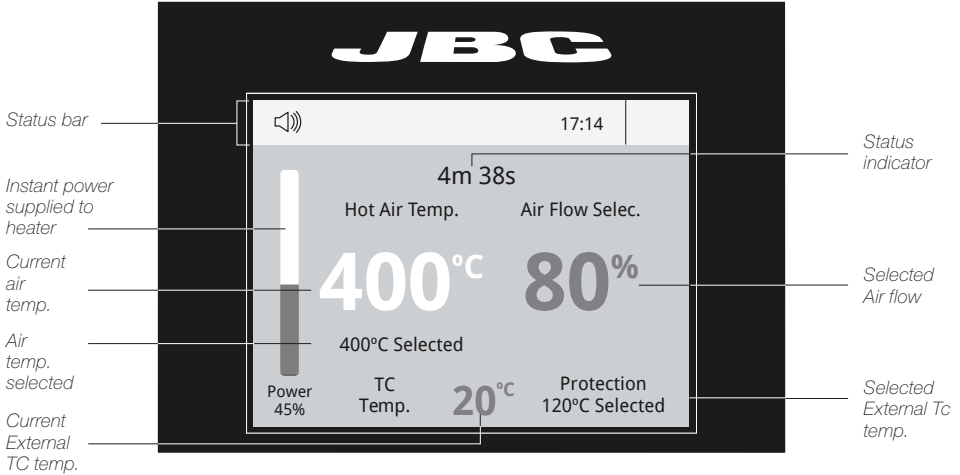
IPC* does not recommend exceeding ramp-up rates over 3 - 4 °C / sec (5 - 7 °F / sec) so as to reduce the risk of thermal stress on the PCB.

* IPC was founded in the U.S. in 1957 as the Institute for Printed Circuits.



Process Control

The TESE offers an **intuitive user interface** which provides **quick access** to station parameters.
Original PIN: 0105

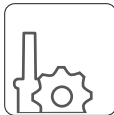


Menu Options

Press INFO for each parameter description.



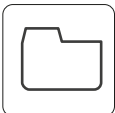
Station



Tools



Profiles



Files



Graphics



Reset

System notifications (Status Bar)

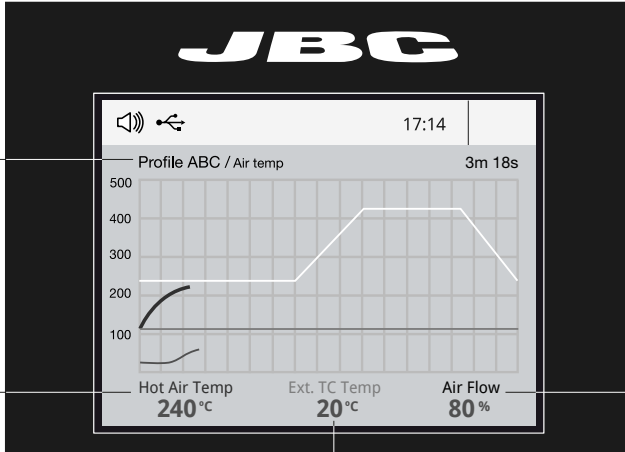
- USB flash drive is connected.
- Station is controlled by a PC.
- Station is controlled by a robot.
- Station software update.
Press INFO to start the process.
- Warning.
Press INFO for failure description.
- Error. Press INFO for failure description, the type of error and how to proceed.

Profiles



Profiles

In this mode you can **set up or edit** as many as 25 profiles of temperature and air flow.



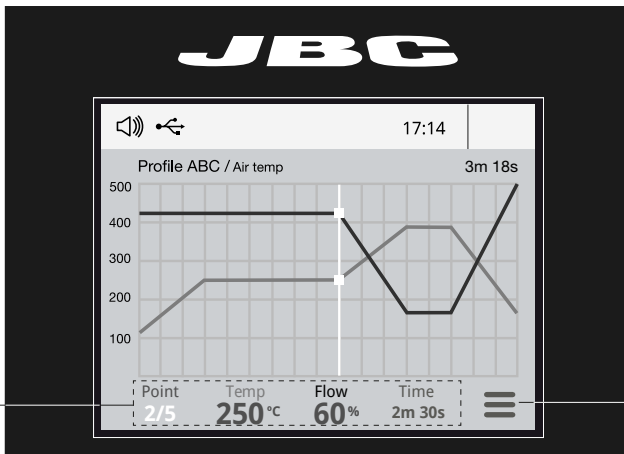
Profile name

Current air temp.

Current air flow

Current External TC temp.

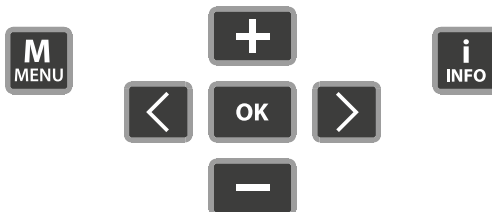
Edit Mode



Data for these points

Menu Options

- Add point
- Delete point
- Load profile
- Save profile
- Exit

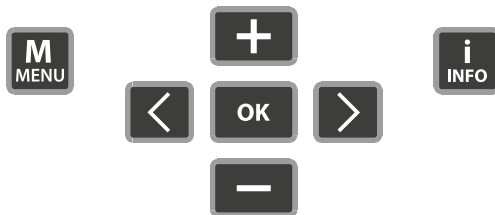
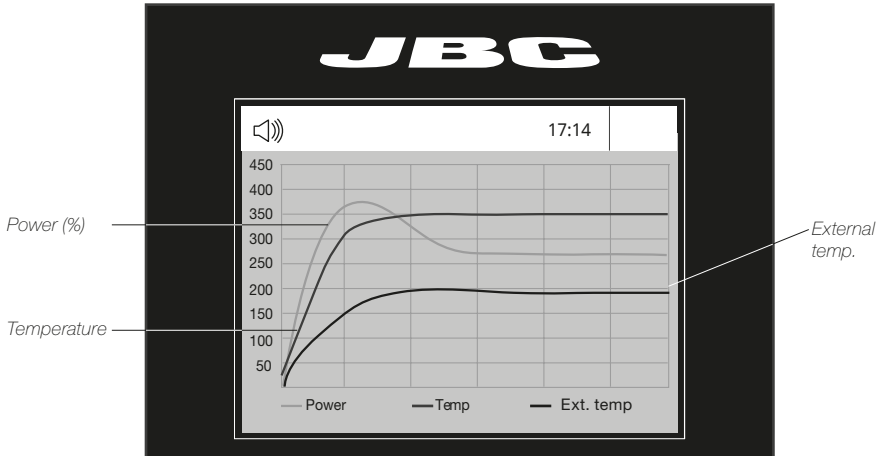


Process analysis



Graphics

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



Files



Files

Export graphics

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


Export / Import profiles

Insert a USB flash drive into the USB-A connector to export / import profiles.



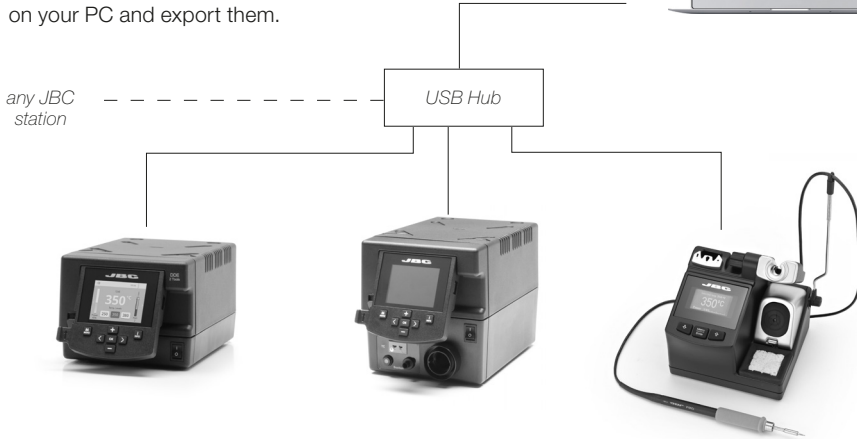
Soldering Net (Soon available)

Remotely manage and monitor your stations.

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 use.
- Analyze the soldering graphics of the stations on your PC and export them.



Update the station software

1. Download the JBC Update File from www.jbctools.com/software.html and save it on a USB flash drive. (Preferably one with no other files).

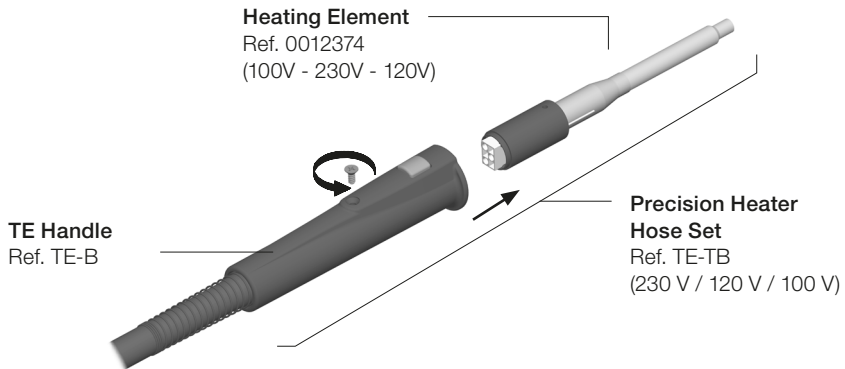
2. Insert the USB flash drive to the station. The icon  is displayed while updating.



Replacing the Heating Element

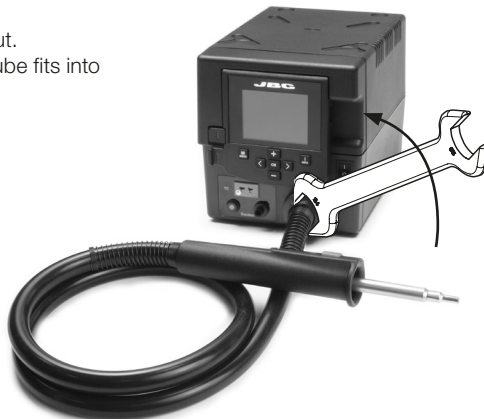
Only perform this operation when the element is cold and the unit is disconnected from the mains.

1. Loosen the screw.
2. Pull the heating element out of the handle.
3. Connect the new heating element, ensuring it is pushed all the way in.
4. Tighten the screw.



Changing the TE-TB Heater Hose Set

1. Ensure that the tool is turned off.
2. Use a spanner to unscrew the nut.
3. Make sure that the new heater tube fits into the grooves in the socket.
4. Tighten the screw.



Hot Air Accessories (not supplied with TE-Q)

Find the model that best suits your soldering needs in www.jbctools.com

Protector



Tripod



Extractor



Manual extractor

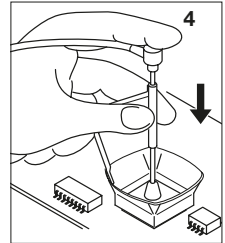
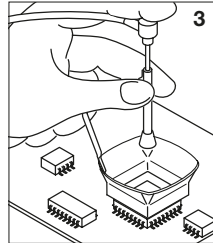
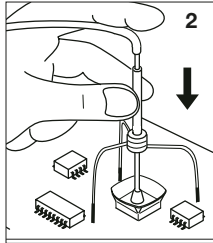
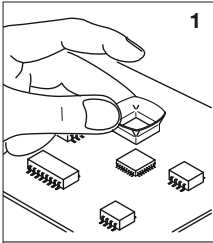


For small components (fig. 1 and 2).

We recommend using the protector + tripod.

For big components (fig. 3 and 4).

We recommend using the extractor.



Extractor Desk

This accessory lets you quickly switch between different models of extractors and protectors. There are two drawers for storage.

Extractor desk

Ref. 0008752

*Protectors
and extractors
are not included.*



Maintenance

Before carrying out maintenance, 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.
- Periodically check all cables and tubes.

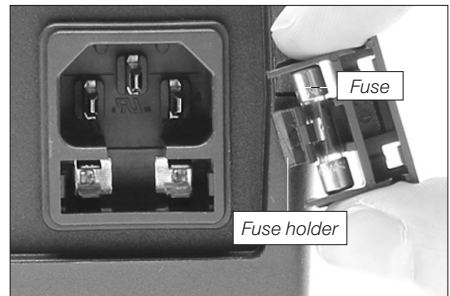
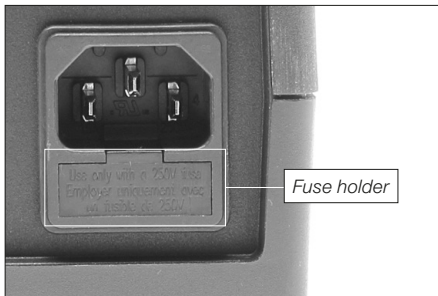
Clean periodically



- 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. Insert the new fuse into the fuse 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

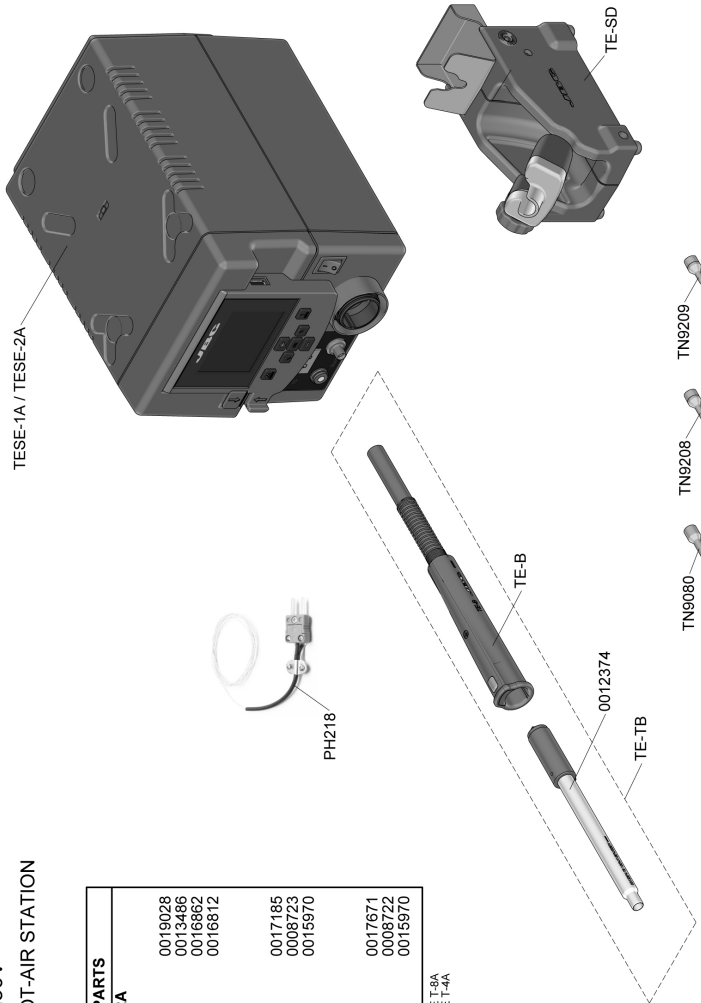


It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.

- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause fire.
- The power cord must be plugged into approved bases. Make 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 to turn off the hot air. 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 inflammable products to ignite.
- Avoid the contact of flux 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.

Exploded View · Despiece ·
Explosionszeichnung · 分解圖

TESE-1QA 100/120V
TESE-2QA 230V
PRECISION HOT-AIR STATION



SPARE PARTS	
TESE-1A / TESE-2A	
-ENCLOSURES:	
·TOP	0019028
·BOTTOM	0013486
·FRONT	0016862
·BACK	0016812
TESE-1A	
-CIRCUIT	0017185
-SUCTION PUMP	0008723
-HOT AIR PUMP	0015970
TESE-2A	
-CIRCUIT	0017671
-SUCTION PUMP	0008722
-HOT AIR PUMP	0015970

TESE-1A 100/120V FUSE T-6A
TESE-2A 230V FUSE T-4A

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.

Garantía

Esta garantía de 2 años cubre este equipo contra cualquier defecto de fabricación, incluyendo la sustitución de partes defectuosas y mano de obra.

La garantía no cubre el desgaste del producto por uso o mal uso.

Para que esta garantía sea válida, el equipo debe ser devuelto, a portes pagados, al distribuidor donde se compró.

Garantie

Die 2-Jahres-Garantie von JBC erstreckt sich auf das Gerät bei Herstellungsfehlern, einschließlich Fehlern der Verarbeitung und dem Ersatz defekter Teile und deren Austausch.

Die Garantie gilt nicht für Produktverschleiß durch normale Nutzung oder durch falsche Anwendung.

Damit die Garantie Gültigkeit erlangt, muß das Gerät an den Händler, bei dem es gekauft wurde, zurückgesandt werden (Porto bezahlt).

保修

JBC的2年保修涵盖了该设备所有的制造缺陷，包括更换有缺陷的零件和人工耗时。

保修不包括因过度使用或误用而产生的产品损坏。

为了使保修有效，设备须返还至购买时的经销商处返修，邮资自理。



This product should not be thrown in the garbage.

In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.

Este producto no debe desecharse en la basura.

De acuerdo a la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada.

Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden.

In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

本产品不应被扔在垃圾筒内。

根据欧盟条款2012/19/EU，电子设备在其寿命结束后必须被回收并转运至授权回收工厂。