

Index	Page
English	1

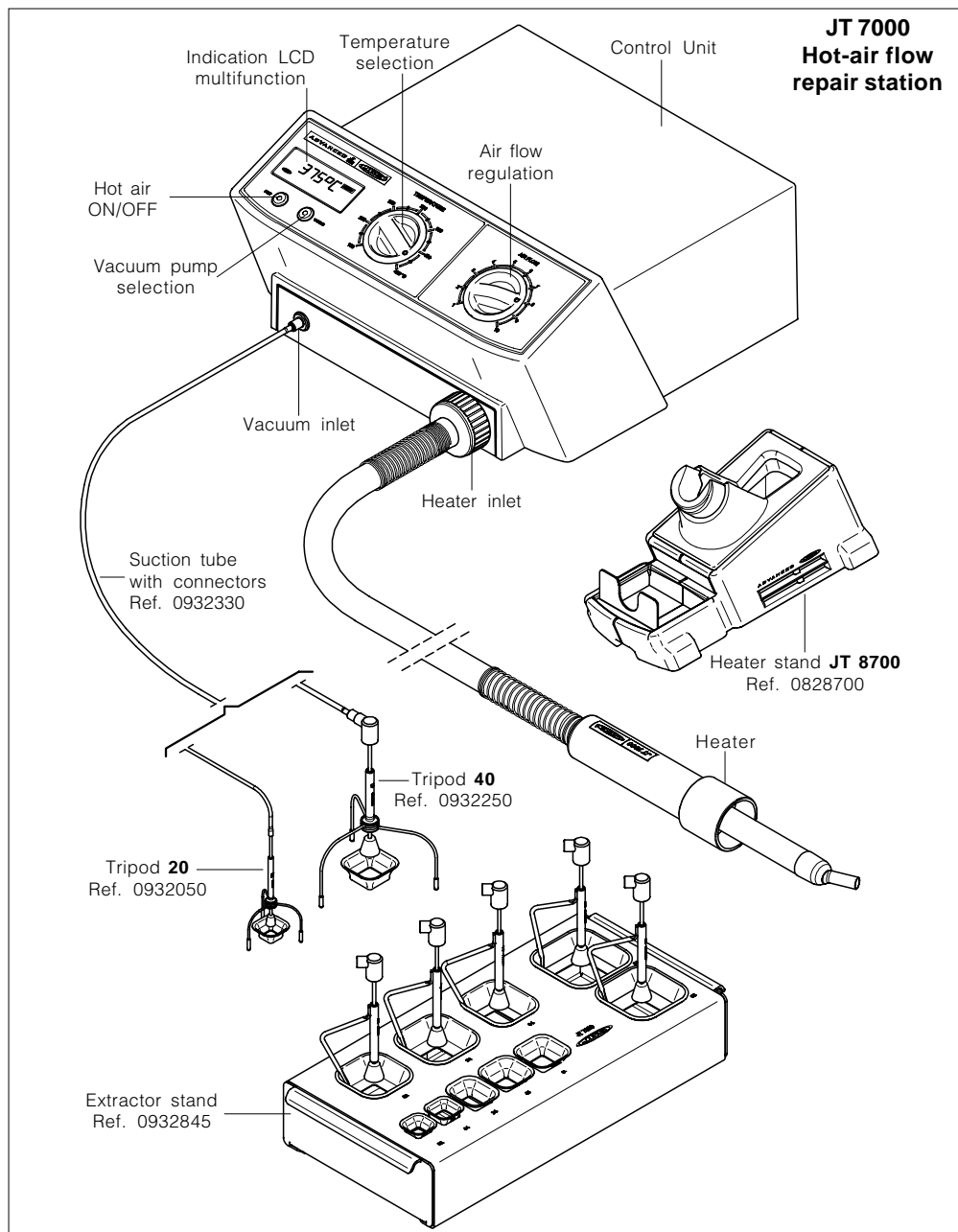
ADVANCED
S E R I E S



HOT-AIR FLOW DESOLDERING STATION

JT 7000

We appreciate the confidence you have placed in JBC in purchasing this station. It is manufactured to the most stringent quality standards in order to give you the best possible service. Before turning on your station, we recommend you to read these instructions carefully.



SPECIFICATIONS

The **JT 7000** is a hot air generating station intended for repair work involving electronic circuits with SMDs of any size.

- **JT 7000** 230V 50Hz EU: Ref. 7000200
- **JT 7000** 230V 50Hz UK: Ref. 7000201
- **JT 7000** 120V 60Hz US: Ref. 7000100

The station's components

- Control Unit with **900 W** heater
- JT 8700 heater stand Ref. 0828700
- Extractor stand Ref. 0932845
- Set of 5 protectors (Fig. 1, page 36)
- Set of 5 extractors (Fig. 2, page 36)
- 2 tripods for the protectors (Fig. 1, page 36)
- Set of 4 suction cups Ref. 0930110
- 3 nozzles
In order to make the nozzles removal easier, the stand has a special bushing. (Fig. 3, page 36).
- Suction tube with connectors Ref. 0932330
- Pedal with cable and connector Ref. 0964551
- Spare filters Ref. 0786620
- Instruction manual Ref. 0825400

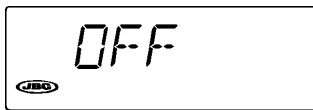
Control Unit technical specifications

- Temperature selection from 150 to 450°C
- Accuracy of selected temperature: $\pm 5\%$
- Air flow regulation: 6-45 l/min
- Station's maximum power: 1000W
- ESD protected housing.
Typical surface resistance: 10^5 - 10^{11} Ohms/square
- Complies with EC standards on electrical safety, electromagnetical compatibility and antistatic protection.
- Weight of complete unit: 6.2 kg

OPERATION

Turning on

Turn on using the switch on the rear of the control unit. The screen shows **OFF**.



Description of controls

- PEDAL:

Hot air is produced when it is held down. Releasing it returns the system to **OFF**, though the turbine continues to operate until the air temperature falls below 100°C.

- BUTTONS:

HEAT



Activates or deactivates the hot-air flow. After a function-time of one minute the hot-air flow switches automatically off.

VACUUM



On/off switch for the suction pump.

- CONTROLS:

TEMPERATURE

This enables temperatures from 150 to 450°C to be selected.
The display shows the actual air temperature when the unit is working.

AIR FLOW

This enables the air flow to be set on a scale from 1 (corresponding to the lowest setting of 6 l/min) to 10 (corresponding to the highest of 45 l/min).

DESOLDERING PROCEDURE

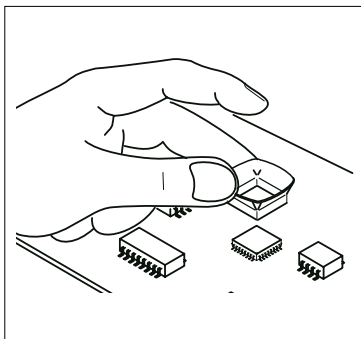
We would also recommend the use of the nozzles of larger diameter, reserving the smallest one (diam. 4 mm) for desoldering small components such as resistors, condensers and the like, bearing in mind that with this small nozzle the concentration of heat is greater and care must be taken to avoid burning the printed circuit; we recommend keeping below a temperature of 350 °C and air flow of 6.

Depending on the size of the integrated circuit to be desoldered, you will have to use:

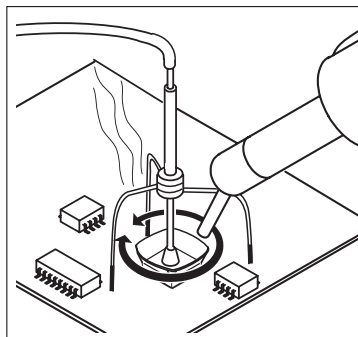
- A) Protector + tripod
- B) Extractor
- C) Tripod

A) Protector + tripod:

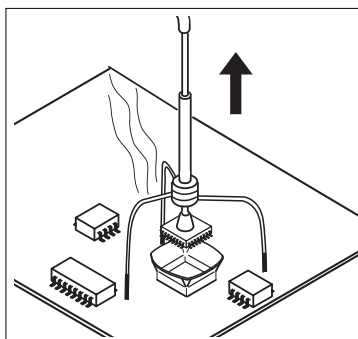
- Select protector and tripod size in function of the IC to be desoldered and place it over the component.



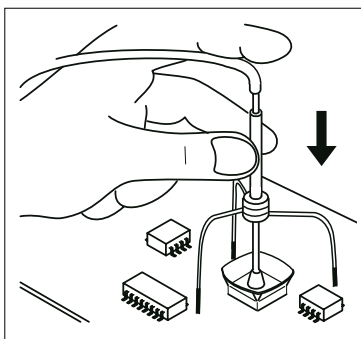
- Use the pedal or the **HEAT** button to start the hot-air generator, directing it with a circular movement at the component terminals and taking care to distribute the heat evenly.



- When the soldering flux turns liquid the extractor will automatically lift the component.

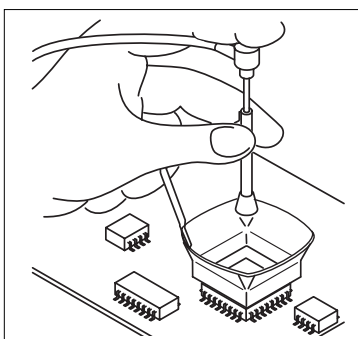


- Use the **VACUUM** button to start the suction pump and then fit the tripod. Press the sucker down until it sticks onto the component.

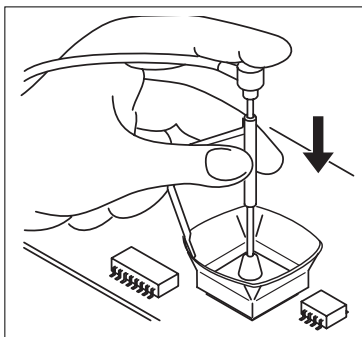


B) Extractor:

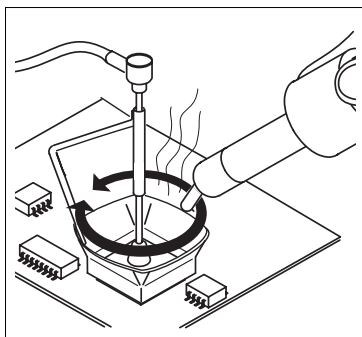
- Select extractor size in function of the IC to be desoldered. Use the **VACUUM** button to start the suction pump.



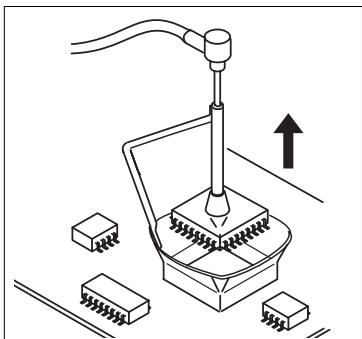
- Fit the extractor and press the sucker down until it sticks onto the component.



- Use the pedal or the **HEAT** button to start the hot-air generator, directing it with a circular movement at the component terminals and taking care to distribute the heat evenly.



- When the soldering flux turns liquid the extractor will automatically lift the component.



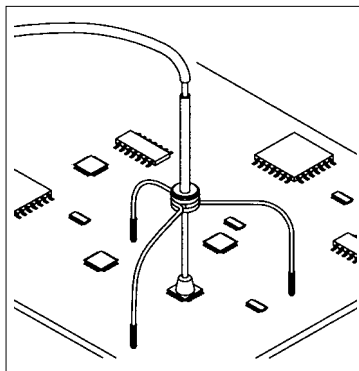
There are different models of protectors and extractors as accessories.

The measurements of all the extractors and protectors are given on page 34 of instructions manual.

C) Tripod:

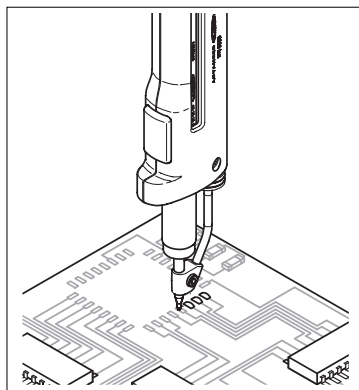
For small components for which an extractor cannot be used, we recommend use of tripod 20 Ref. 0932050, as shown in the figure.

Use the tripod 40 Ref. 0932250 for larger integrated circuits.

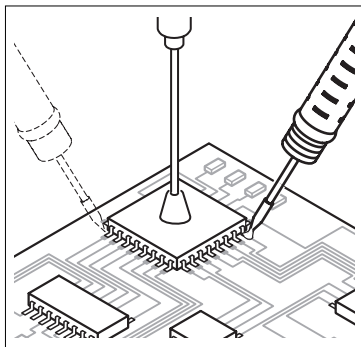


SOLDERING PROCEDURE

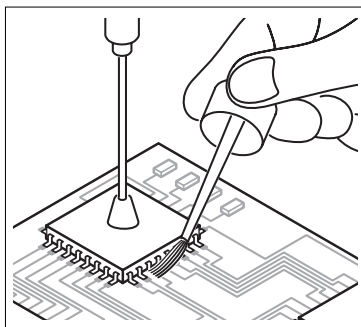
- 1 After desoldering the component, any solder left on the printed circuit should be removed using a desoldering station. We recommend our station, the **AR 5500** station.



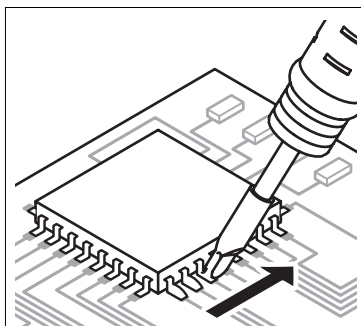
- 2 Place the component or printed circuit.
- 3 When the component is correctly placed, solder its pins. In the case of integrated circuits of the Flat Pack type, first solder one pin of every IC angle to fix it in place in the circuits.



- 4 Apply Flux **FL 9582** in pads and leads.



- 5 Solder the remaining pins. For that, we recommend you use our soldering station, the Advanced Series, which has 2 models of irons.



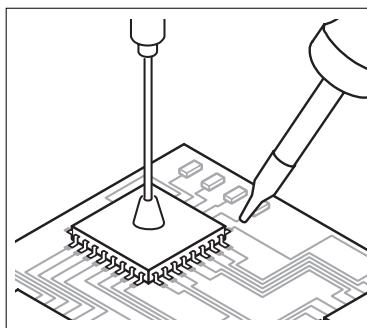
Soldering Iron 2210 ref. 2210000 for great precision tasks, like SMD solders, etc.

Soldering Iron 2245 ref. 2245000 for general soldering tasks in professional electronics.

These soldering irons have a wide range of cartridges with different models of tips. The cartridge 2245-009 and 2245-010 are specially designed for soldering SMD circuits of the QFP and PLCC types.

Solder wire with a diameter of between 0.5 and 0.7 mm should be used.

- 6 Depending on the nature of the component to be soldered, use soldering paste together with our hot air station **TE 5000**, which gives very accurate air-flow regulation, between 2 and 11 l/min.

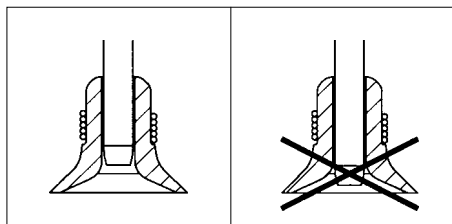


OPERATING INCIDENTS

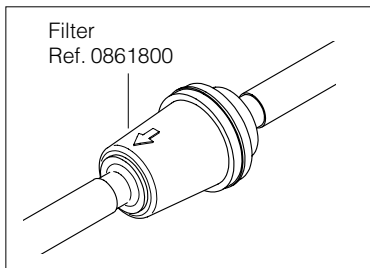
The suction cup does not adhere to the component.

Deficient aspiration, Vacuum.

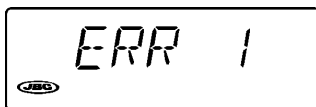
- 1 Verify if the suction cup is well placed and in perfect condition.



- 2 Check the incoming air filter in the interior of the station and replace it if dirty or obstructed.



Error messages



Whenever the **ERR** message appears, the equipment turns itself off completely.

The following messages are displayed:

- BLANK SCREEN

Power failure.
Check for blown fuses.

- ERR 1

The temperature will not rise.
Possible causes: heating element open or blown fuse.

- ERR 3

No reading from the thermocouple.
Possible cause: open thermocouple.

- ERR 6

Insufficient air flow which causes an excessive rise of the heating temperature.
Before recuperating this type of error you must wait until the temperature goes down.
Possible causes: leaking or blocked air conducts or faulty air pump.

- ERR 8

Faulty reading of the rotationsmeter of the airpump.
Possible causes: airpump damaged or faulty function of the optical sensor circuit.

To recuperate any of these errors actuate the general switch at the back of the station, the pedal should not be pushed at this moment.

JBC reserves the right to make technical changes without prior notification.

ADVANCED SERIES



AD 2200

Soldering stations for specialized use with SMD components assemblies.



AR 5500

Desoldering station which enable the rapid desoldering of all kinds of insertion components.



AM 6000

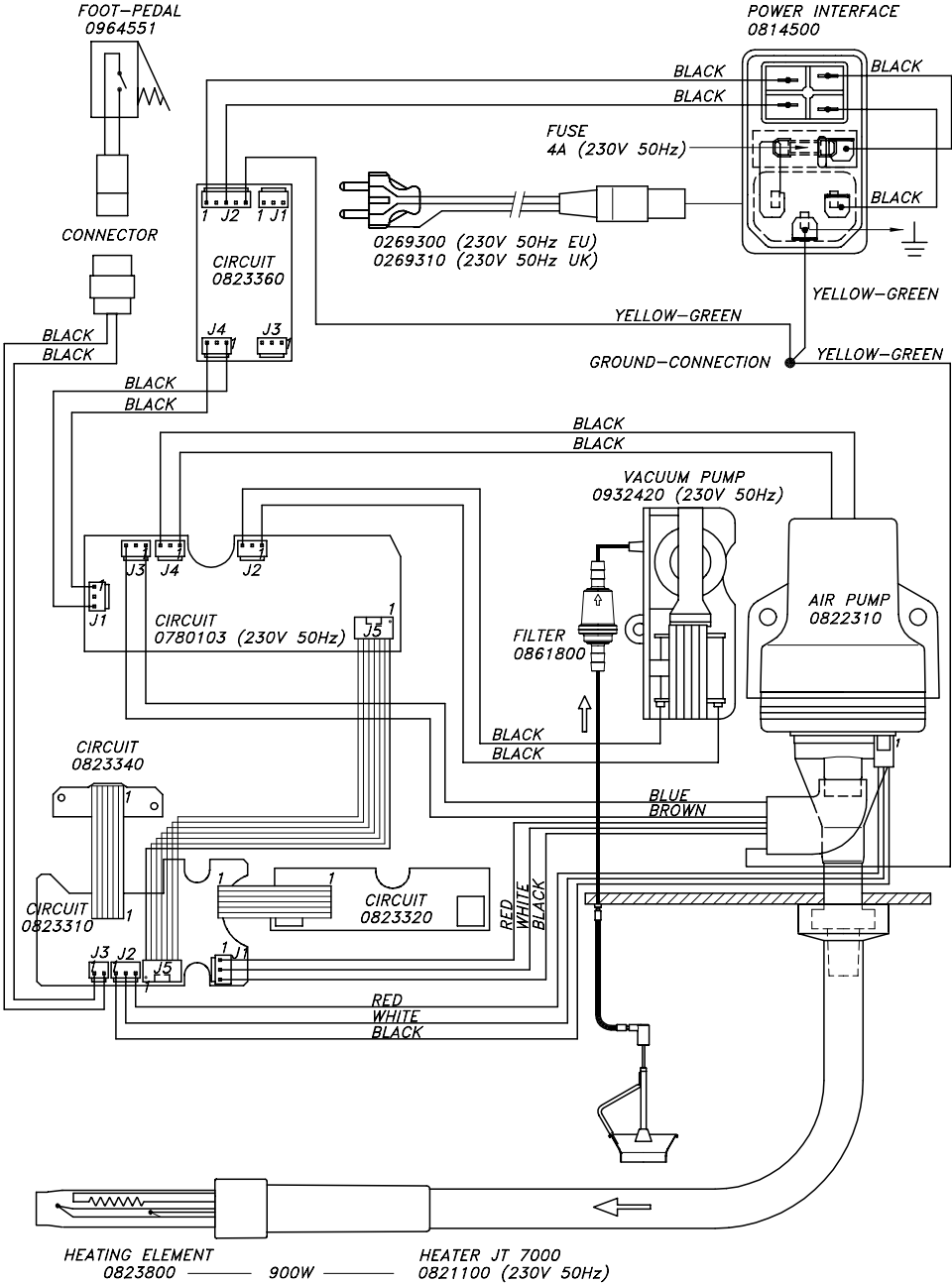
Station for rework and repair of through-hole and SMT boards.



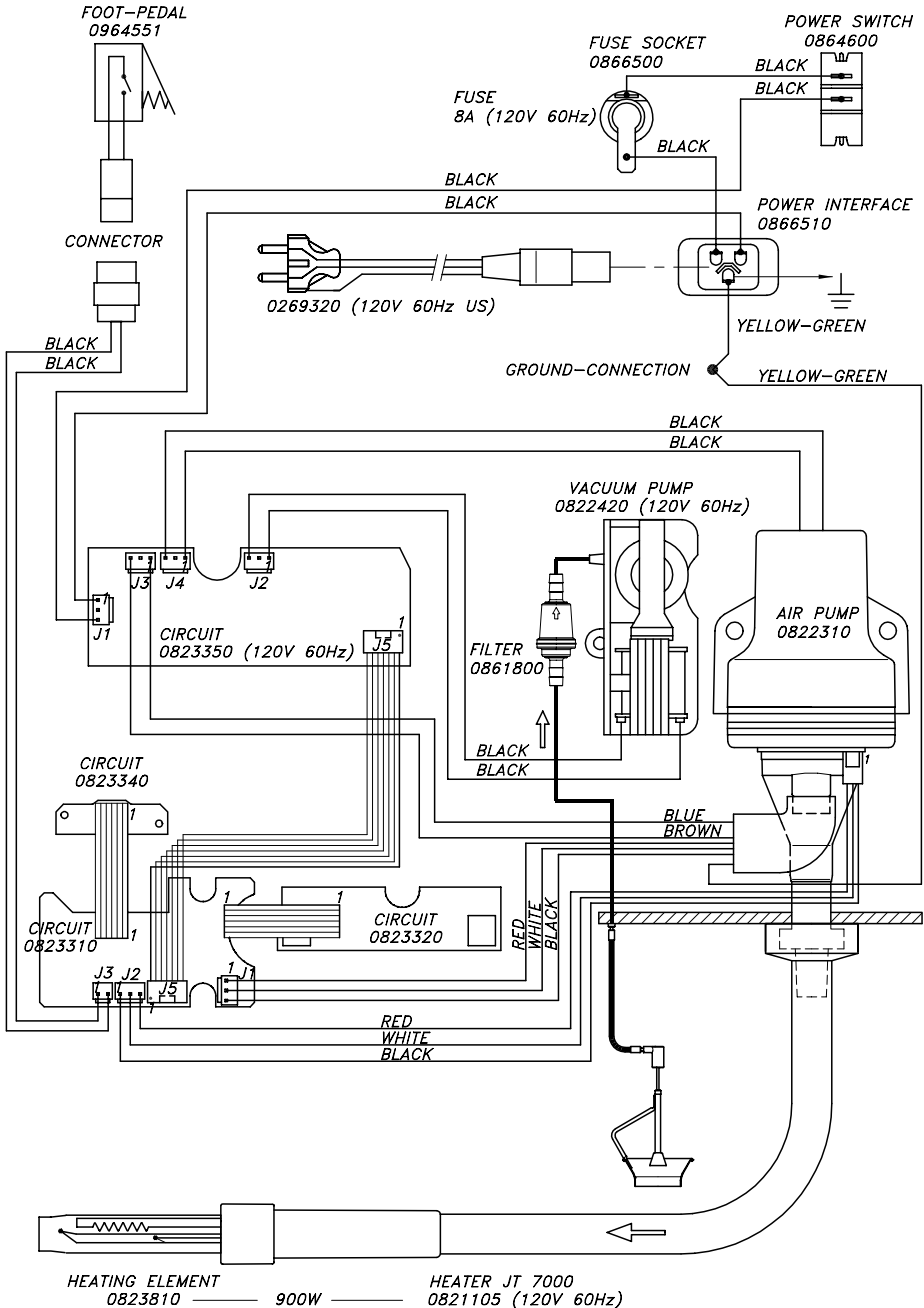
TE 5000

Hot-air flow repair station designed for soldering and desoldering small and medium-sized SMDs.

ELECTRIC WIRING DIAGRAM
JT 7000 230V 50Hz



ELECTRIC WIRING DIAGRAM JT 7000 120V 60Hz



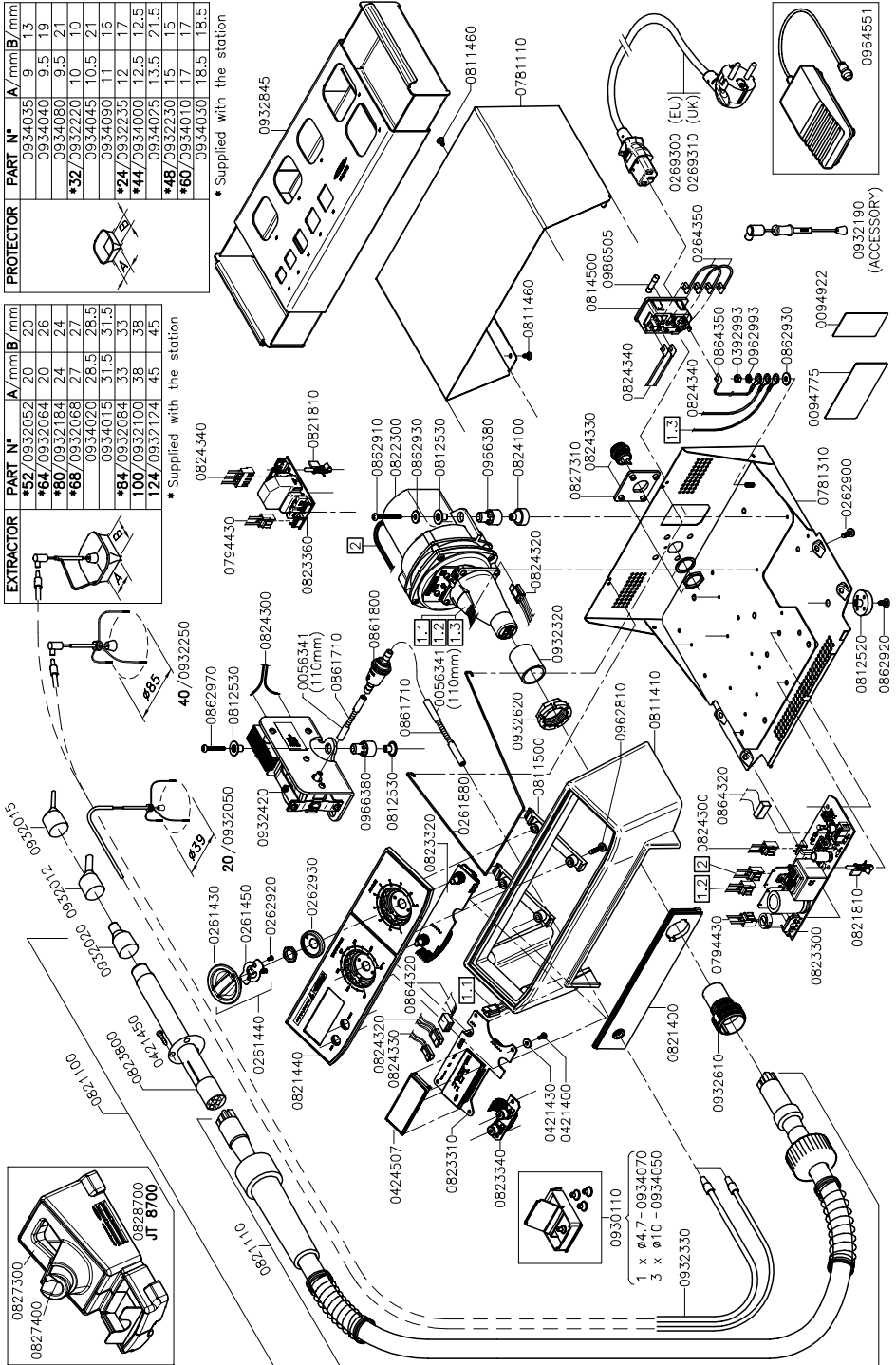
JT 7000 230V 50Hz

PROTECTOR	PART N°	A/mm	B/mm
	0934035	9	13
	0934040	9.5	19
	*32/0932220	10	10
	0934045	10.5	21
	0934090	11	16
	*24/0932235	12	17
	*44/0934020	12.5	21.5
	0934025	13.5	21.5
	*48/0932230	15	15
	*60/0934010	17	17
	0934030	18.5	18.5

* Supplied with the station

EXTRACTOR	PART N°	A/mm	B/mm
	*52/0932052	20	20
	*64/0932084	20	26
	*80/0932184	24	24
	*68/0932088	27	27
	0934020	28.5	28.5
	0934015	31.5	31.5
	*84/0932084	33	33
	100/0932100	38	38
	124/0932124	45	45

* Supplied with the station

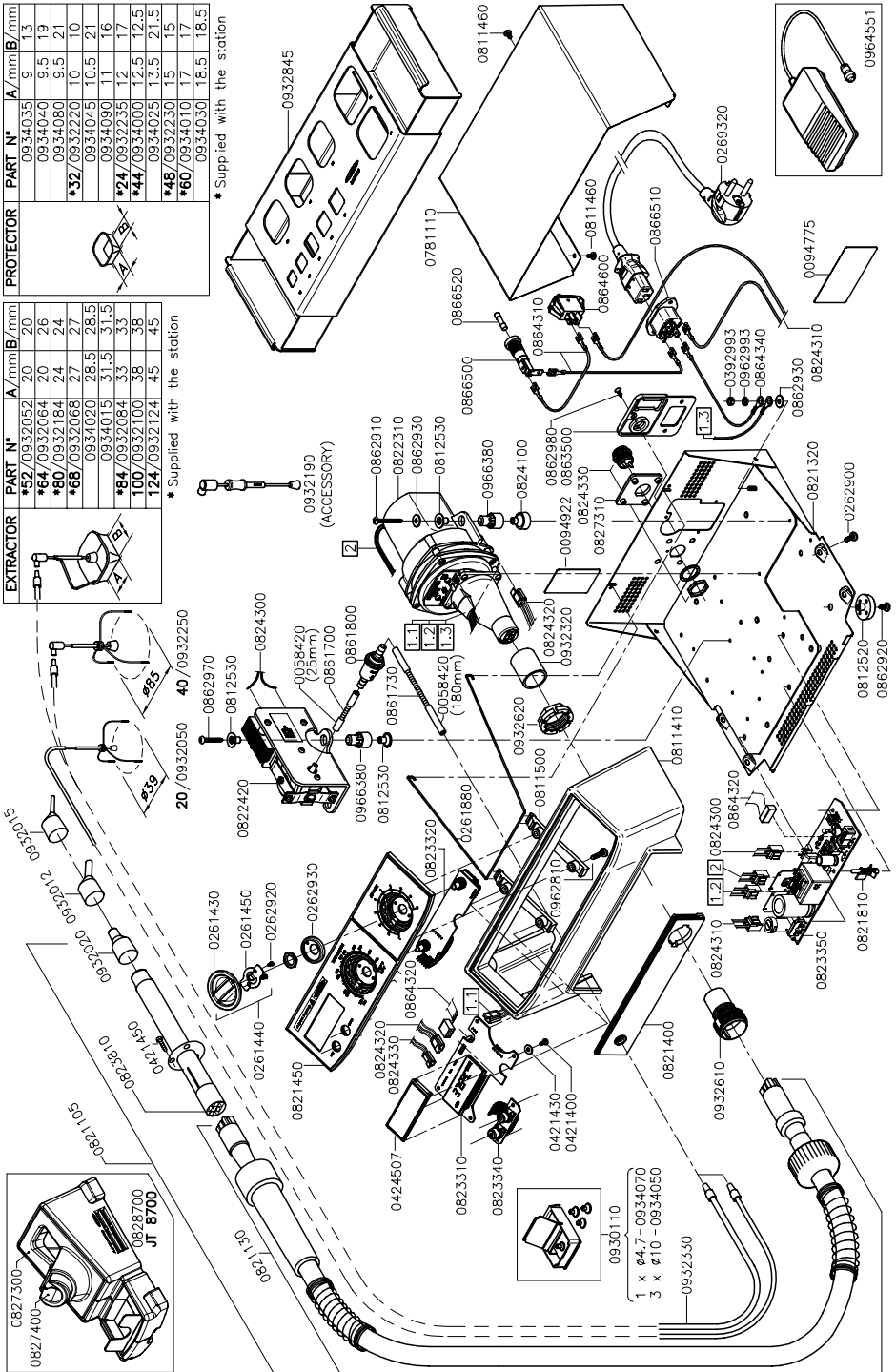


JT 7000 120V 60Hz

PROTECTOR	PART #	A / mm (B / mm)	Q	B
		0934035	9	13
		0934040	9.5	19
		0934080	9.5	21
	*32	0934220	10	10
		0934045	10.5	21
		0934090	11	16
	*24	0934235	12	17
	*44	0934300	12.5	12.5
		0934025	13.5	21.5
	*48	0934230	15	15
	*60	0934010	17	17
		0934030	18.5	18.5

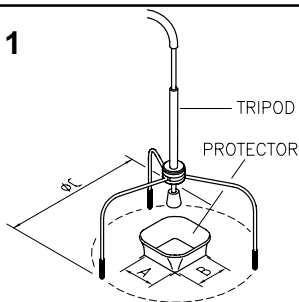
EXTRACTOR	PART N°	A/mmB/mm
	*52 /0932052	20 20
	*64 /0932064	20 26
	*80 /0932184	24 24
	*68 /0932068	27 27
	0934020	28,5 28,5
	0934015	31,5 31,5
	*84 /0932084	33 33
	100 /0932100	38 38
	124 /0932124	45 45

* Supplied with the station



PROTECTOR

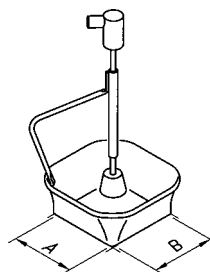
Fig. 1



PART N°	A/mm	B/mm
0934035	9	13
0934040	9.5	19
0934080	9.5	21
*32 / 0932220	10	10
0934045	10.5	21
0934090	11	16
*24 / 0932235	12	17
*44 / 0934000	12.5	12.5
0934025	13.5	21.5
*48 / 0932230	15	15
*60 / 0934010	17	17
0934030	18.5	18.5
TRIPOD	$\varnothing C$ /mm	
*20 / 0932050	39	
*40 / 0932250	85	

EXTRACTOR

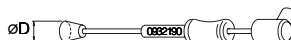
Fig. 2



PART N°	A/mm	B/mm
*52 / 0932052	20	20
*64 / 0932064	20	26
*80 / 0932184	24	24
*68 / 0932068	27	27
0934020	28.5	28.5
0934015	31.5	31.5
*84 / 0932084	33	33
100 / 0932100	38	38
124 / 0932124	45	45

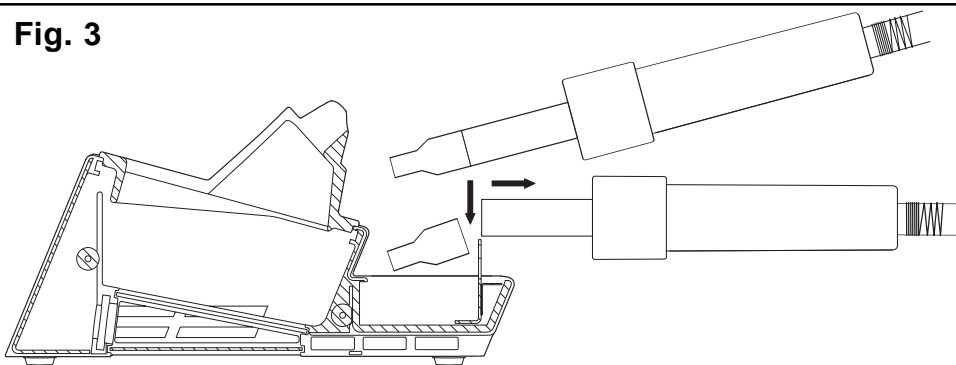
MANUAL EXTRACTOR

0932190 $\varnothing D$ /mm= 7



* Supplied with the station

Fig. 3





WARRANTY

ENGLISH

The JBC 2 years warranty, guarantees this equipment against all manufacturing defects, covering the replacement of defective parts and all necessary labour.

Malfunctions caused by misuse are not covered.

In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased enclosing this, fully filled in, sheet.

GARANTIA

ESPAÑOL

JBC garantiza este aparato durante 2 años, contra todo defecto de fabricación, cubriendo la reparación con sustitución de las piezas defectuosas e incluyendo la mano de obra necesaria.

Quedan excluidas de esta garantía las averías provocadas por mal uso del aparato.

Es indispensable para acogerse a esta garantía el envío del aparato al distribuidor donde se adquirió, a portes pagados, adjuntando esta hoja debidamente cumplimentada.

GARANTIE

FRANÇAIS

JBC garantit cet appareil 2 ans contre tout défaut de fabrication. Cela comprend la réparation, le remplacement des pièces défectueuses et la main d'oeuvre nécessaire.

Sont exclues de cette garantie les pannes provoquées par une mauvaise utilisation de l'appareil.

Pour bénéficier de cette garantie il est indispensable d'envoyer l'appareil chez le distributeur où il a été acquis, en ports payés, en joignant cette fiche dûment remplie.

