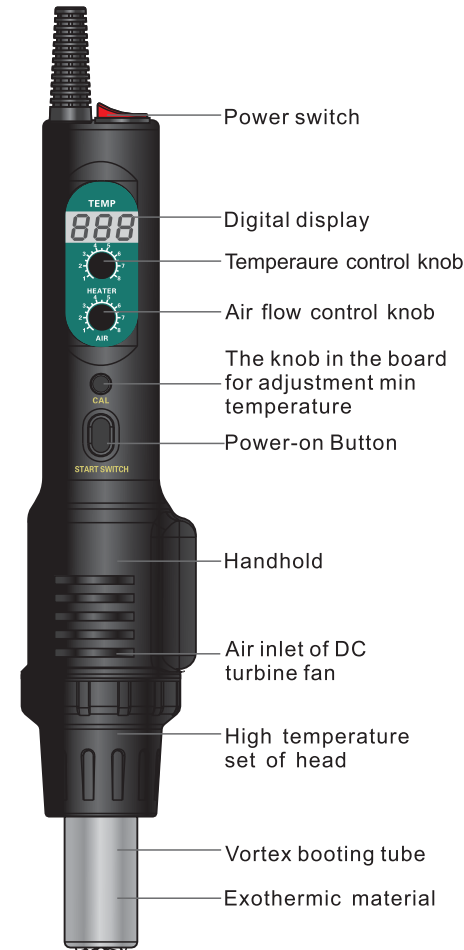
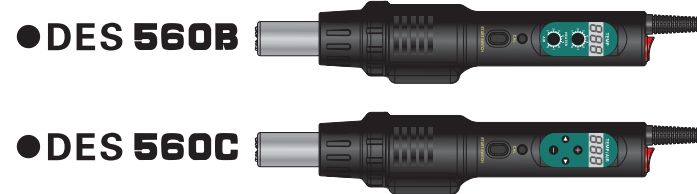


Thank you for using this product. Please read the instructions carefully before use to avoid errors in operation.

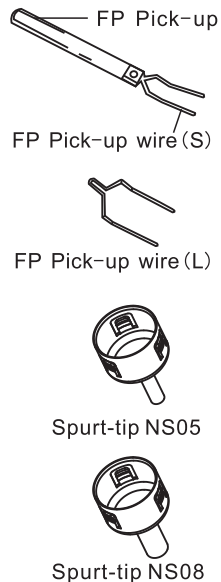
Remark:

The "warning" and "note" in the specification are defined as follows:
Warning: abuse shall result in death or serious injury.
Note: abuse shall result in damage to the users or the objects.

Product model



※ This product does not include a nozzle. Select the nozzle or nozzles suitable for the work to be performed.



Note: Do not touch the metallic parts near the tip.

Warning: Do not operate nearby the tinder.

Packing list

Mainframe.....	1
FP Pick-up.....	1
FP Pick-up wire (L).....	1
FP Pick-up wire (S).....	1
Spurt-tip NS05.....	1
Spurt-tip NS08.....	1
Instruction manual.....	1
Guaranty card.....	1
Qualified certificate.....	1

Features

- ★ Small volume, saving working space with the new design.
- ★ It is new vortex design for exit, decreasing anomaly temperature.
- ★ Small body volume, saving working space, portable handle domination, saving working time.
- ★ Adjustable air volume & temperature, adapting to de-soldering chips of QFP, SOP, PLCC, & SOJ.
- ★ Setting cooling function; turning off the power, the system continues sending cool air until the temperature is lower down to 80°C, protecting the elements from high temperature damage.
- ★ Inside temperature sensor setting, ensuring stable temperature for different air volume.
- ★ Static elimination design that is safe for sensitive elements.

Product Specifications

Name	DES 560B	DES 560C
Display	Digital display	Digital display
Power consumption	560W	
Temperature Range	80~600°C	
Air-volume	Level 1~8	
DC turbine fan	12V/8500 Rotation	
High temperature set of head	GP5/GP6 (Purchase additionally)	
Exothermic material	○AC110V(A1525B) ○ AC220V(A1526B)	
Cord length	1.6m	
Total length (without cord)	250 (L) mm	
Weight	0.6kg	
Packing size	320X205X60mm	
Power supply	○AC110V/60HZ ○AC220V/50HZ	

※ This product is protected against electrostatic discharge.
※ Specifications and design are subject to change without notice.

CAUTION

- Do not touch the metallic parts near the tip.
- Do not use the produce near flammable items.
- Do not face the spurt-tip to the worker face.
- Advise other people in the work area that the unit can reach a very high temperature.
- Turn the power off while taking breaks and when you are finished using it.
- Before replacing parts or or storing the unit, turn the power off and allow the unit to cool to room temperature.
- Do not close the flammable, paper, or other flammable material, is damage to the worker. For new equipment, do not touch the heating tube or hot air spurring.
- Please avoid falling off or violent shaking for fear of damage.
- Instead of the exothermic material parts must be same parts in a opposite direction.
- Make sure turn off the power when you are not working.

Note: Turning off the power, the system continues sending cool air until the temperature is lower down to 80°C, protecting the elements from high temperature damage.

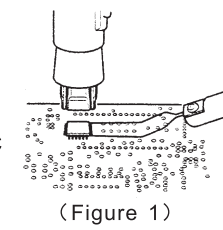
Operation

QFP Desoldering

A: Preparation for working

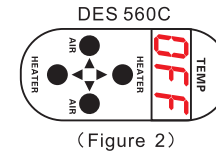
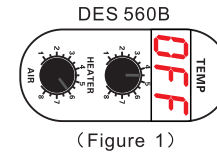
Choose the proper dimension (integration model, pull-out copper cord, spurt-tip and fixed them completely.

- Place the FP pick-up under the IC lead. Slip the FP pick-up wire under the IC lead. (Figure 1)
If the width of the IC does not match the size of the FP pick-up, adjust the width of the pick-up by squeezing the wire. In case of PLCC or small components such as chip resistors, desolder by using tweezers, etc.



B、 Turn on Operation

- Connect power and remember to use the equipment after grounded;
- Turn on the power switch of host;
 - If the display screen of DES 560B and DES 560C is **OFF** after displaying the originally set temperature and air volume, the system is in standby mode instead of working. (As shown in Figure 1 and 2);

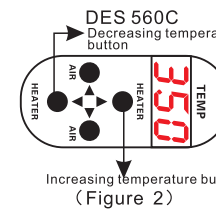
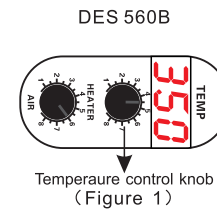


- Please set the required temperature and air volume before work. (See below for adjustment of temperature and air volume)

C、 Operation Temperature

HEATER knob on panel is a knob for adjustment of temperature and the adjustable range is 80°C~600°C. Rotate the knob right to increase temperature and left to decrease temperature.

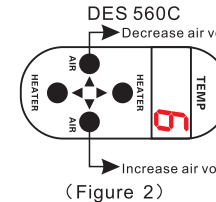
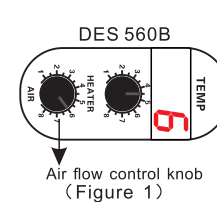
- Taking DES 560B as an example: while rotating the temperature adjusting knob, the display screen should show the temperature required to be set, such as 350°C; (as shown in Figure 1);
- Taking DES 560C as an example: while pressing keys to increase or decrease temperature, the display screen should show the temperature required to be set, such as 350°C; (as shown in Figure 2);



D、 Operation Air Quantity

AIR knob on panel is a knob for adjustment of air volume and the scope of air volume is grade 1-8. Rotate the knob right to increase air volume and left to decrease air volume. the pointer should point at the required air volume.

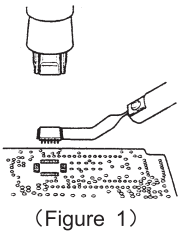
- Taking DES 560B as an example: while rotating the air volume adjusting knob, the display screen should show the air volume required to be set, such as grade 5; (as shown in Figure 1);
- Taking DES 560C as an example: while pressing keys to increase or decrease air volume, the display screen should show the air volume required to be set, such as grade 5; (as shown in Figure 2);



E、 Cleaning tin course

- After temperature and air volume are set, keep pressing the start button to enter working condition;
- If long-time work is required, continuously press the start button twice to maintain the working condition; the display screen shows temperature value when it is in working position;
- Heating
After the stability temperature, the pull-out equipment is on integration model, letting the tip shoot at the part by heating air melting (the spurt-tip is above the integration).

- Remove the IC
Once the solder has melted, remove the IC by lifting the FP pick-up. (Figure 1)
- Remove any remaining solder.
After removing the IC, remove remaining solder with a soldering iron and wick or desoldering tool.



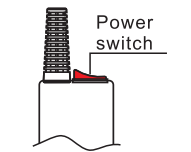
F、 Turn off Operation

- If shutdown is required, keep pressing start button **OFF** will be shown, and then the machine will stop heating. During this stage, don't unplug the power plug. Until about one minute later when the temperature in spray nozzle sleeve drops to below 80°C, will the fan stop automatically. The power switch can only be turned off after the fan stop working to prevent overheating of the heating element.

CAUTION

During the cooling process, the amount of air is controlled by the setting of the air flow adjustment knob. It recommends setting the knob at maximum when cooling for greatest efficiency.

- Turn the power switch off.
After the flowing function finished, turn off the power switch.



G、 Error display

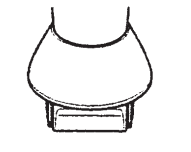
If the product is in trouble, the sign will display.

- H-E** The machine is stopped in a forced way because the heating element breaks down, the temperature is out of control or beyond the upper limit.
- E-I** The fan breaks down. Please replace it
- F-H** It is indicated when heating core is not connected

QFP Soldering

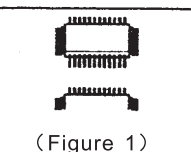
- Apply the solder paste.

Apply the proper quality of solder paste and install the SMD on the PWB.



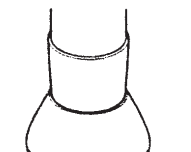
- Preheat the SMD

Refer to the figure 1 to preheat SMD.



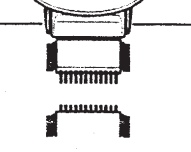
- Soldering

Heat the lead frame evenly. (Figure 2)



- Cleaning

When soldering is completed, clean the residual flux from the board with an appropriate cleaner.



CAUTION

Soldering with hot air has many advantages, such as the inherent ability to pre-heat the component being replaced. As with any soldering process, however, there is always the possibility of forming solder balls, bridges between leads, and inadequate solder joints. Always inspect the finished solder joints for structural and electrical integrity.

- Keep pressing start button to close the heating state

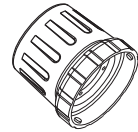
If it is DES 560B/560C, **OFF** will be shown, and then the machine will stop heating. Until the temperature in spray nozzle sleeve drops to below 80°C about one minute later, will the fan stop automatically. Therefore, the power plug cannot be un-plugged during cooling stage.

- Turn the power switch off.

After the flowing function finished, turn off the power switch.

Removable Accessories

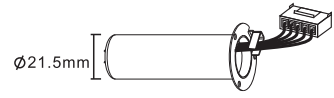
1.High temperature set of head:



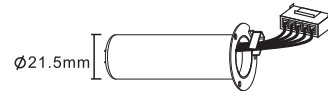
High temperature set of head:
(GP5) Air outlet 21.5mm

High temperature set of head:
(GP6) Air outlet 30mm
(purchase additionally)

2.Exothermic material :



Exothermic material :
(A1525B 110V/550W)



(A1526B 220V/550W)

Removable Accessories

High temperature set of head	GP5
High temperature set of head	GP6(purchase additionally)
Exothermic material	A1525B 110V/550W
Exothermic material	A1526B 220V/550W

Maintenance/Inspection

● Broken heating element

⚠ CAUTION

Replacing the heating element is very dangerous. Be sure to turn the power switch OFF and be careful of the following procedure when replacing the heating element.

1. Take out the high-temperature casing head; firstly, rotate the casing head, and then take off it when the two triangles at back are aligned (as shown in Figure 1).

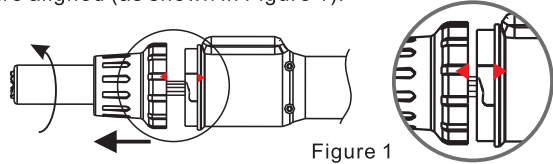


Figure 1

2. Take off the 5P extension cord (as shown in Figure 2) connected with handle, then take off the 3 screws fixing sleeve of heating element, and last, take off the sleeve and heating element (as shown in Figure 3).

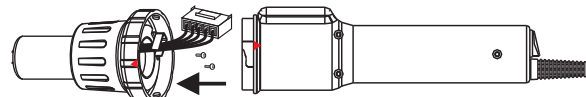


Figure 2

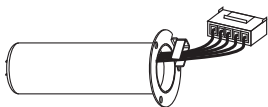


Figure 3

⚠ CAUTION

Handle the heating element with care. Never rub the heating element wire!

3. Replace new heating element as well as the sleeve.
4. Assembled to the original shape (as shown in Figure 4).

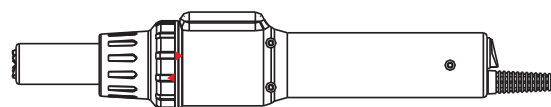
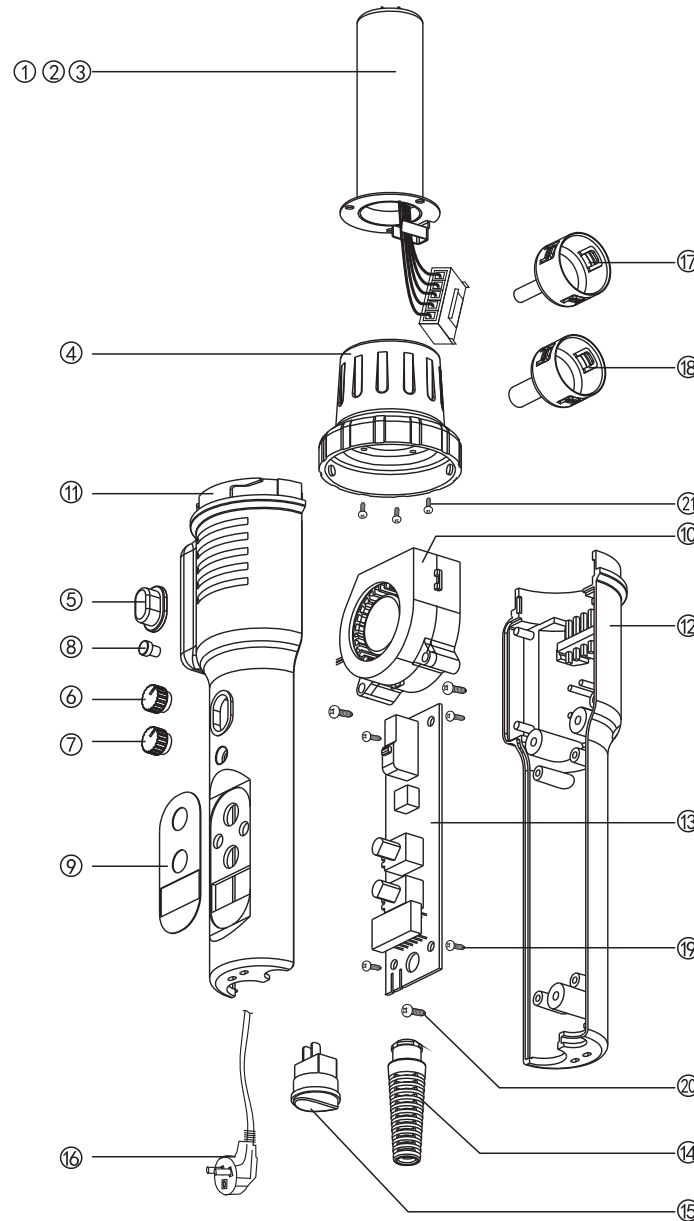


Figure 4

Parts list



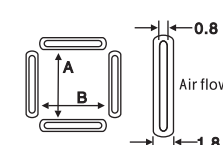
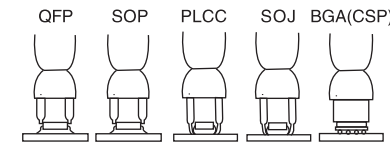
Item NO	Part No.	Part Name	Specifications
①	WWJ00106	Booting tube	Vortex
②	CFR00057	Exothermic material A1525B	220V 550W
③	CFR00058	Exothermic material A1526B	110V 550W
④	SSJ00147	High temperature set of head	GP5
	SSJ00158	High temperature set of head	GP6(purchase additionally)
⑤	SSJ00148	Power-on Button	
⑥	SSJ00149	Knob1	φ9mm
⑦	SSJ00149	Knob2	φ9mm
⑧	SSJ00119	CAL rubber plug	
⑨	SMB00034	PVC panel	22*50mm
⑩	DDJ00010	DC Turbine fan (excluding dimension of lines)	40*40*20mm
⑪	SSJ00150	Upper enclosure	φ44*176mm
⑫	SSJ00151	Lower enclosure	φ44*176mm
⑬	ZDL00034	P.W.B.	Silicon controlled and other parts
⑭	DKG00023	Power switch	Maximum Diameter 16.5mm
⑮	SSJ00001	Line sheath	Silica gel
⑯	DXC00045	Power cord,3wired cord&European plug	220V KTL,230V CE
	DXC00008	Power cord,3wired cord&Chinese plug	China
⑰	CPZ00022	Spray nozzle NS05	φ5(ID)
⑱	CPZ00023	Spray nozzle NS08	φ8(ID)
⑲	WLS00060	Crossed self-tapping screw	PT2. 6*10mm
⑳	WLS00055	Crossed self-tapping screw	PT2. 6*5mm
㉑	WLS00034	Crossed self-tapping screw	PM2*5mm

OPTIONAL NOZZLES

Unit:mm

⚠ CAUTION

The size in Name/ Specification indicates the size of IC package.

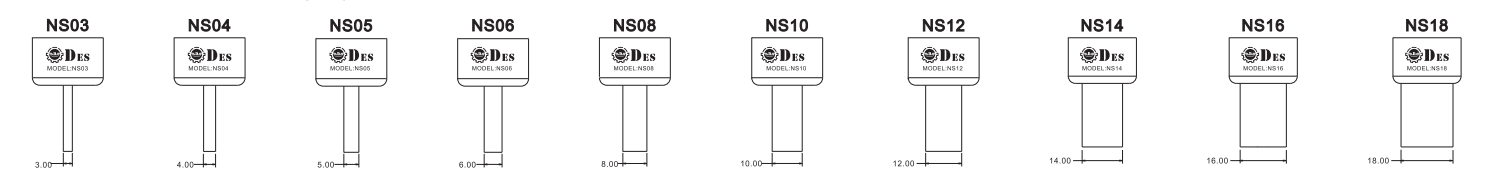


	C0.8 D1.8	C1.0 D2.0	C0.8 D2.0
NO.	N1125B-N1129B N1131-N1141B N1180B-N1189B N1203B-N1266B	N1191	N1192

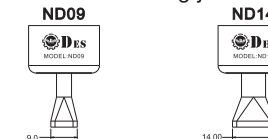
● Air nozzle with vacuum function

N1125B QFP 10×10 A:10.2 B:10.2	N1126B QFP 14×14 A:15.2 B:15.2	N1127B QFP 17.5×17.5 A:19.2 B:19.2	N1128B QFP 14×20 A:15.2 B:21.2	N1129B QFP 28×28 A:29.7 B:29.7	N1135B PLCC 17.5×17.5 (44 Pins) A:18.5 B:18.5
N1136B PLCC 20×20 (52 Pins) A:21 B:21	N1137B PLCC 25×25 (68 Pins) A:26 B:26	N1138B PLCC30×30 (64 Pins) A:31 B:31	N1139B PLCC 12.5×7.3 (18 Pins) A:9 B:14	N1140B PLCC 11.5×11.5 (28 Pins) A:13 B:13	N1141B PLCC 11.5×14 (32 Pins) A:15 B:13
N1181B BQFP 19×19 A:19.2 B:19.2	N1182B BQFP 24×24 A:24.2 B:24.2	N1184B SOJ 18×8 A:11 B:11	N1185B TSOL 13×10 A:11.7 B:11.7	N1186B TSOL 18×10 A:18.5 B:18.5	N1187B TSOL 18.5×8 A:11 B:11
N1188B PLCC 9×9 (20 Pins) A:11 B:11	N1189B PLCC 34×34 (100 Pins) A:36.5 B:36.5	N1203B QFP 35×35 A:35.2 B:35.2	N1214B SOJ 10×26 A:25.9 B:12	N1215B QFP 42.5×42.5 A:42.5 B:42.5	N1257B SOP11X21 A:11.7 B:11.7
N1258B SOP7.6X12.7 A:8.2 B:8.2	N1259B SOP13X28 A:13.5 B:13.5	N1260B SOP8.6X18 A:8.7 B:8.7	N1261B QFP 20X20 A:20.2(0.8) B:20.2(0.8)	N1262B QFP 12X12 A:12 B:12	N1263B QFP28X40 A:27.7 B:39.7
N1264B QFP40X40 A:40.2 B:40.2	N1265B QFP32X32 A:32.2 B:32.2	N1470 BGA 8X8 A:9 B:9	N1471 BGA 12X12 A:13 B:13	N1472 BGA 13X13 A:14 B:14	N1473 BGA 15X15 A:16 B:16
N1474 BGA 18X18 A:19 B:19	N1475 BGA 27X27 A:28 B:28	N1476 BGA 35X35 A:36 B:36	N1477 BGA 38X38 A:39 B:39	N1478 BGA 40X40 A:41 B:41	

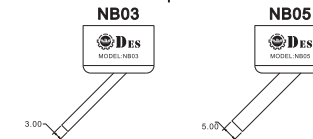
● Common purchase/Straight jet



● Common purchase/Bending jet



● Common purchase/Shaped jet



※ We are entitle to restore the produce capability & technique parameter,without noticing additional.