

Desoldering Rework Station

Item: 4966/ZD-985



1. Description

ZD-985 is designed for lead free desoldering especially. Its fast heat-up and strong power are ideal for soldering / desoldering all types of DIP components.

Reasonable structure, single hand operation and strong absorbing power can be easy removal of the residual solder from the one-sided or two sided of the PCB.

This tool is used in the fields of electronic research, teaching and production, especially in the repairing and desoldering on the electronic appliances and communications equipments.

1.1 Control Unit

The desoldering gun is controlled automatically by the micro-processor. The digital control electronics and high-quality sensor and heat exchange system guarantee precise temperature control at the soldering tip. The highest degree of temperature precision and optimal dynamic thermal behavior under load conditions is obtained by the quick and accurate recording of the measured values in a closed control circuit, and this design is especially for the lead-free production technics.

1.2 Desoldering gun (ZD-552B)

ZD-552B desoldering gun with a power of 80W and a wide spectrum of soldering tips (N5 series) can be used anywhere in the electronics field.

The high power and gun type design make this iron gun suitable for fine desoldering work. The heating element is made of PTC and the sensor on the desoldering tip can control the desoldering temperature quickly and accurately.

2. Technical Specification

Code	Voltage supply
89-8512	220-240V~
89-8514	220-240V~ ESD safe

Spare parts:

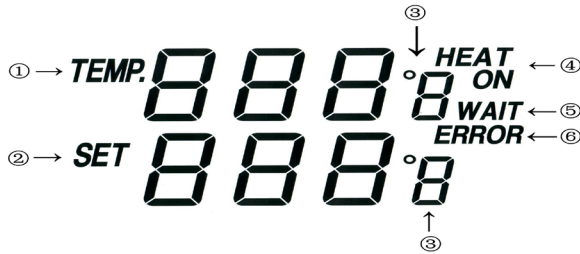
Code	Voltage	Power	Model	NOTE
ZD-552B	24V	80W	ZD-552B	7 pins, with sleep function

3. Operating Instruction

3.1 Place the desoldering gun in the holder separately. Then connect the plug to the receptacle

on the station and turn clockwise to tighten the plug nut. Make sure that the power supply corresponds to the specifications on the type plate and the power switch is on the “OFF” position. Connect the control unit to the power supply and switch on the power. Then a self-test is carried out in which all display elements are switched on briefly. The electronic system then switches on automatically to the set temperature and displays this value.

3.2 The display and temperature setting



The digital display:

① shows the actual temperature of the desoldering tip .

② shows the setting temperature: Pressing the “UP” or “DOWN” button can switch the digital display to the set point display. The set-point can be changed for $\pm 1^{\circ}\text{C}$ by tapping the “UP” or “DOWN” button. Pressing the button will change the set-point quickly. The digital display will return automatically to the actual value and the iron will reach to the setting temperature quickly.

③ $^{\circ}\text{C}/^{\circ}\text{F}$ display: Switching the temperature display from $^{\circ}\text{C}$ to $^{\circ}\text{F}$ by pressing the “ $^{\circ}\text{C}/^{\circ}\text{F}$ ” button and then the electronic system will display the actual temperature① and setting temperature② in $^{\circ}\text{F}$, and vice versa.

④ When the actual temperature on the desoldering tip is less than the set-point, “HEAT ON” will display and make the desoldering tip heating up.

⑤ When the absolute offset is more than $\pm 10^{\circ}\text{C}$ between the actual temperature and the set-point on the soldering tip or the nozzle, “WAIT” will display. It means that the temperature electronic control system is not in the stable situation, we should wait a moment to let the “WAIT” disappear.

⑥ When “ERROR” display, there may be a trouble on the system, or the soldering iron is not connected to the control system correctly.

4. Sleep Mode

The station will go into sleep mode if the desoldering gun is not operated in 15 minutes. The temperature of the tip will cool down to 200°C and keep it during the sleeping period until the station is restarted. And the station will go back to the previous working condition after restarted. You can use the below methods to restart the soldering station:

1. Power off the power switch, then power on it again.
2. Push any key (If you do not pick up the gun in two minutes after pushing any key, the station will go into sleep mode again).

3. Pick up the desoldering gun.

5. Caution !

5.1 The power cord only can be inserted in approved power sockets or adapters.

5.2 High Temperature

The temperature of the soldering tip will reach as high as around 400°C (752°F) when the power switch is on. Since mishandling may lead to burns and fire, be sure to comply with the following precautions:

- ◆ Do not touch metallic parts near the soldering tip/ nozzle.
- ◆ Do not use this system near the flammable items.
- ◆ Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- ◆ Turn off the power switch while taking breaks and when finishing using.
- ◆ Before replacing parts or storing the system, turn off the power and let it cool down to the room temperature.

5.3 take care of your tools

Do not use the tools for any applications other than soldering or desoldering.

Do not rap the iron against the work bench or otherwise subject the iron to severe shocks.

Do not file the soldering tip to remove the oxide, please wipe the tip on the cleaning sponge.

Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

Please turn off the power before connecting or disconnecting the soldering iron.

5.4 Maintenance

Before further use, safety devices or slightly damaged parts must be carefully checked for error-free and intended operation. Inspect moving parts for error-free operation and that they don't bind, or whether any parts are damaged. Damaged safety devices and parts must be repaired or replaced by a qualified technician, so long as nothing else is indicated in the operation manual. Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

5.5 Keep children at a distance

Do not allow other persons to touch or disturb the soldering tool or power cord. Keep other persons away from the work area. Unused soldering tools should be stored in a dry location which is out of the reach of children. Switch off all unused soldering tools.

5.6 Protect yourself against electrical shocks

Avoid touching grounded parts with your body, e.g. pipes, heating radiators and so on. The grip of antistatic designed soldering tool is conductive.

5.7 Work environment

Do not use the soldering tool in a moist or wet environment. The soldering iron should be

placed on the holder after finished using.

5.8 Observe the valid safety regulations at your work place.

6. Safety Instruction

- ♦ The manufacturer assumes no liability for uses other than those described in the operating instructions or for unauthorized alterations.
- ♦ The operating instructions and cautions should be read carefully and kept in an easily visible location in the vicinity of the control system. Non-observance of the cautions will result in accidents, injury or risks to health.