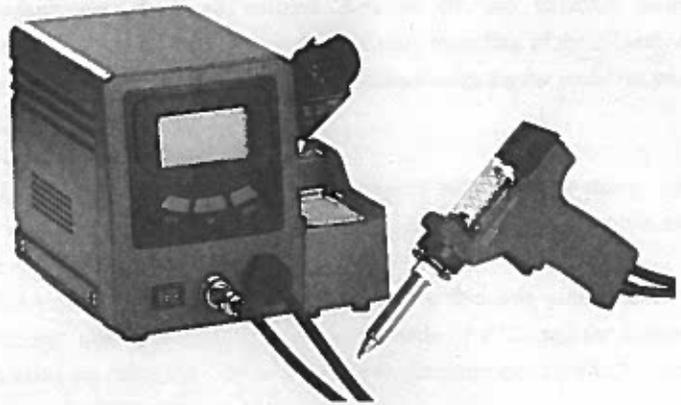




ZD-985 Desoldering Station



1. Description

ZD-985 designed for lead free desoldering especially. The quick heating and strong power are for convenient and clear 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 communication equipments.

1.1 Control Unit

The desoldering iron 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 Iron gun (ZD-552)

ZD-552 desoldering iron gun with a power of 60W (Heat up rating 130W) and a wide spectrum of soldering tips (U 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

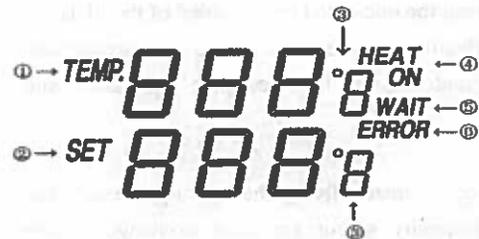
Rated voltage range AC220-240V or AC110-130V; rated power input 80W;

3. Operating Instruction

3.1 Place the desoldering iron gun in the holder separately. Then connect the plug to the receptacle on the station and turn clockwise to tighten the plug nut. Check that the power supply is corresponding to the specification 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 °C/°F display: Switching the temperature display from °C to °F by pressing the "°C/°F" button and then the electronic system will display the actual temperature① and setting temperature② in °F, and vice versa.
- ④ When the actual temperature on the soldering 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. 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.

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.
- **Warning: this tool must be placed on its stand when not in use.**
- **A fire may result if the appliance is not used with care, therefore**
 ---be careful when using the appliance in places where there are combustible material;
 ---do not apply to the same place for a long time;
 ---do not use in presence of an explosive atmosphere;
 ---be aware heat may be conducted to combustible materials that out of sight;
 ---place the appliance on its stand after use and allow it to cool down before storage;
 ---do not leave the appliance unattended when it is switched on.

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

Warning: this appliance is not intended for use by young children and infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.

Warning: Young children should be supervised to ensure that they do not play with the appliance.

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.

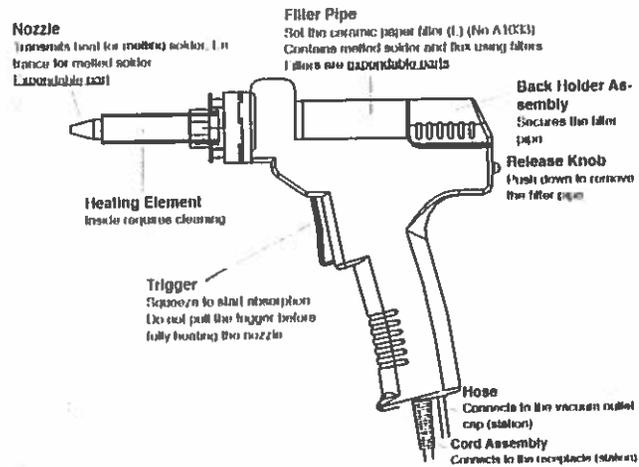
5.7 Work environment

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.

Desoldering Gun Maintenance Guide

Part Names



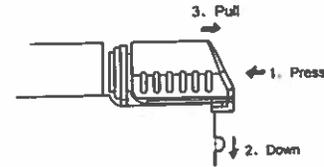
WARNING: Since the desoldering gun can reach a very high temperature, please work carefully. Except when cleaning the nozzle and heating element, always turn the power switch off and disconnect the power plug before performing any maintenance procedure.

Heated solder and flux can cause oxides to form and adhere to the nozzle and the inside of the heating element. These oxides not only lower the heat conductivity, but can also clog the nozzle and heating element, resulting in a drop in suction efficiency. Should there be a noticeable drop in suction efficiency during operation, replace the filter and clean the nozzle and heating element with the provided cleaning pin.

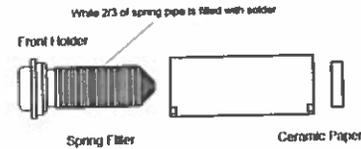


A: Solder that has been absorbed would be kept in the filter pipe. It is in a need to clean all solder in the nozzle and filter pipe if desoldering efficiency gets down. Following are the guiding steps:

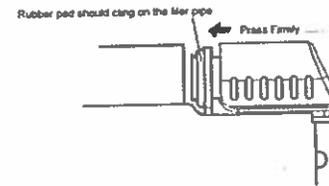
1. The back holder assembly would be detached from the main body by holding down it firmly and pressing the black button at the same time.



2. Take out filter pipe assembly and spring filter and then remove the inner solder.



3. Firmly press the back holder assembly into the filter pipe.



B: The nozzle is damageable. Therefore, it should be cleaned if the solder is not being absorbed.

