

# DOSS 2 in 1 Soldering and Desoldering Station

## SMD Repairing System

Model: ZD917



This SMD repairing system consists of the following parts:

- 1x ZD917 main unit;
- 1x ZD415 soldering iron with N4-1 tip;
- 1x soldering iron stand;
- 1x ZD552 desoldering gun;
- 1x Tip N5-1 Ø1.0mm; 1x Tip N5-3 Ø1.3mm; 1x Filter 5519 Ø20.8mm;
- 3x Filter 5518 Ø16.8mm;
- 3x Soldering Iron Clearer Pin Ø0.7/0.9/1.2 mm

**Ratings: AC220-240V; 50Hz, Class I; 160W**

### 1. Description

This soldering and desoldering station is a high-performance and multi-functional station that is developed for electronic product research, production and rework. This tool is used in the

fields of electronic research, teaching and production, especially in the repairing and reworking on the electronic appliances and communication equipments.

## **2. Controlling Unit**

The soldering iron and the desoldering gun are controlled automatically by two micro-processors. The digital controlled electronics, high-quality sensor and heat exchange system guarantee precise temperature control of 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 work. Temperature range is 160-480°C.

### **2.1 Soldering Iron (ZD415)**

ZD415 soldering iron with a power of 60W and a wide spectrum of soldering tips (N4 series) can be used anywhere in the electronics field.

The high power and compact design makes it suitable for fine soldering work. The heating element is made of PTC and the sensor on the soldering tip can control the soldering temperature quickly and accurately.

### **2.2 Desoldering gun (ZD552)**

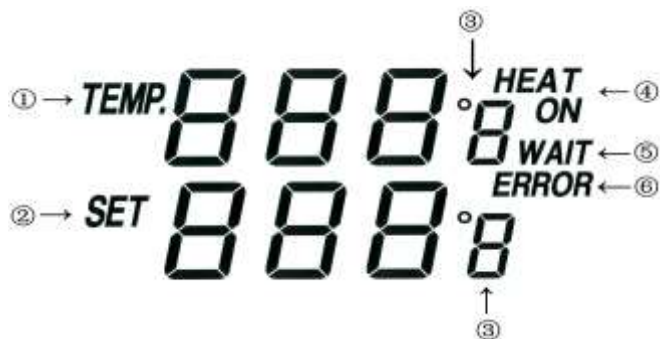
ZD552 Desoldering gun with a power of 80W and a wide spectrum of soldering tips (N5 series) can be used anywhere in the electronics field.

The high power and gun type design makes this 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.

## **3. Operation**

3.1 Place the soldering iron and desoldering gun in the holder separately. Then connect the plug to 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 it on. 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 tip.
- ② shows the setting temperature. Short press the “UP”/“DOWN” button to adjust the temperature by  $\pm 1^{\circ}\text{C}$ . Long-press the button to adjust it quickly.
- ③ Press the  $^{\circ}\text{C}/^{\circ}\text{F}$  button to change the temperature unit between  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$ .
- ④ When the actual temperature of the tip is lower than the setting, "HEAT ON" will display.
- ⑤ When the difference is more than  $\pm 10^{\circ}\text{C}$  between the actual and setting temperatures, "WAIT" will display. Wait until it has disappeared.
- ⑥ When "ERROR" displays, there may be some problem with the system. Or the soldering iron/desoldering gun is not correctly connected.

#### 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. Please note it has no sleep function.

#### 6. Caution

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

##### 6.2 High Temperature

The temperature of the soldering tip or the nozzle will reach as high as around  $480^{\circ}\text{C}$  ( $896^{\circ}\text{F}$ ) when the power switch is on. Since mishandling may lead to burn 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.

#### 6.3 take care of your tools

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

Do not rap the iron/gun 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.

#### 6.4 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.

#### 6.5 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.

#### 6.6 Work environment

Do not use the soldering tool in a moist or wet environment. The soldering iron and the hot air gun should be placed on the holder after finished using.

#### 6.7 Observe the valid safety regulations at your work place.

**Note: This instruction is also available to download from the distributor's website: [www.doss.com.au](http://www.doss.com.au).**