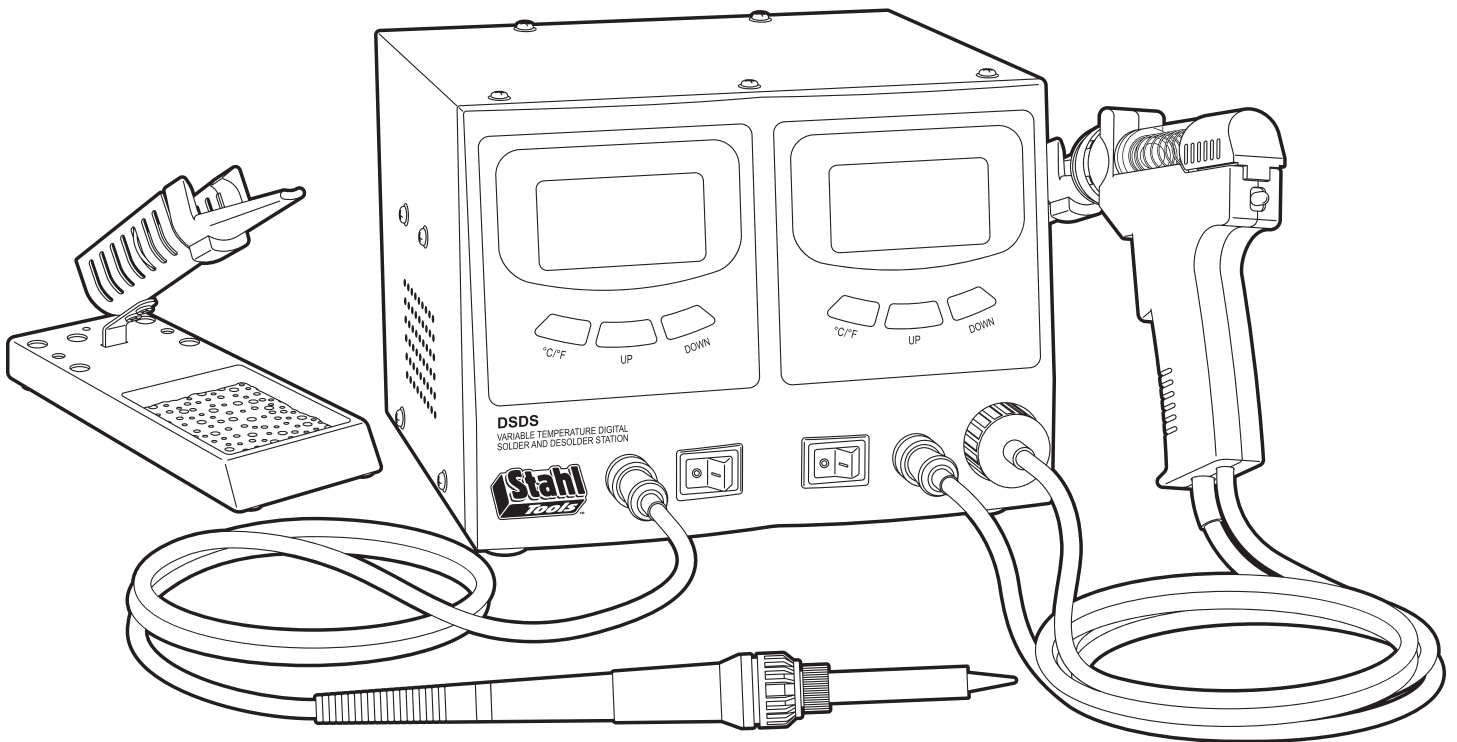




Variable Temperature Digital Solder and Desolder Station



Model: DSDS
User Manual

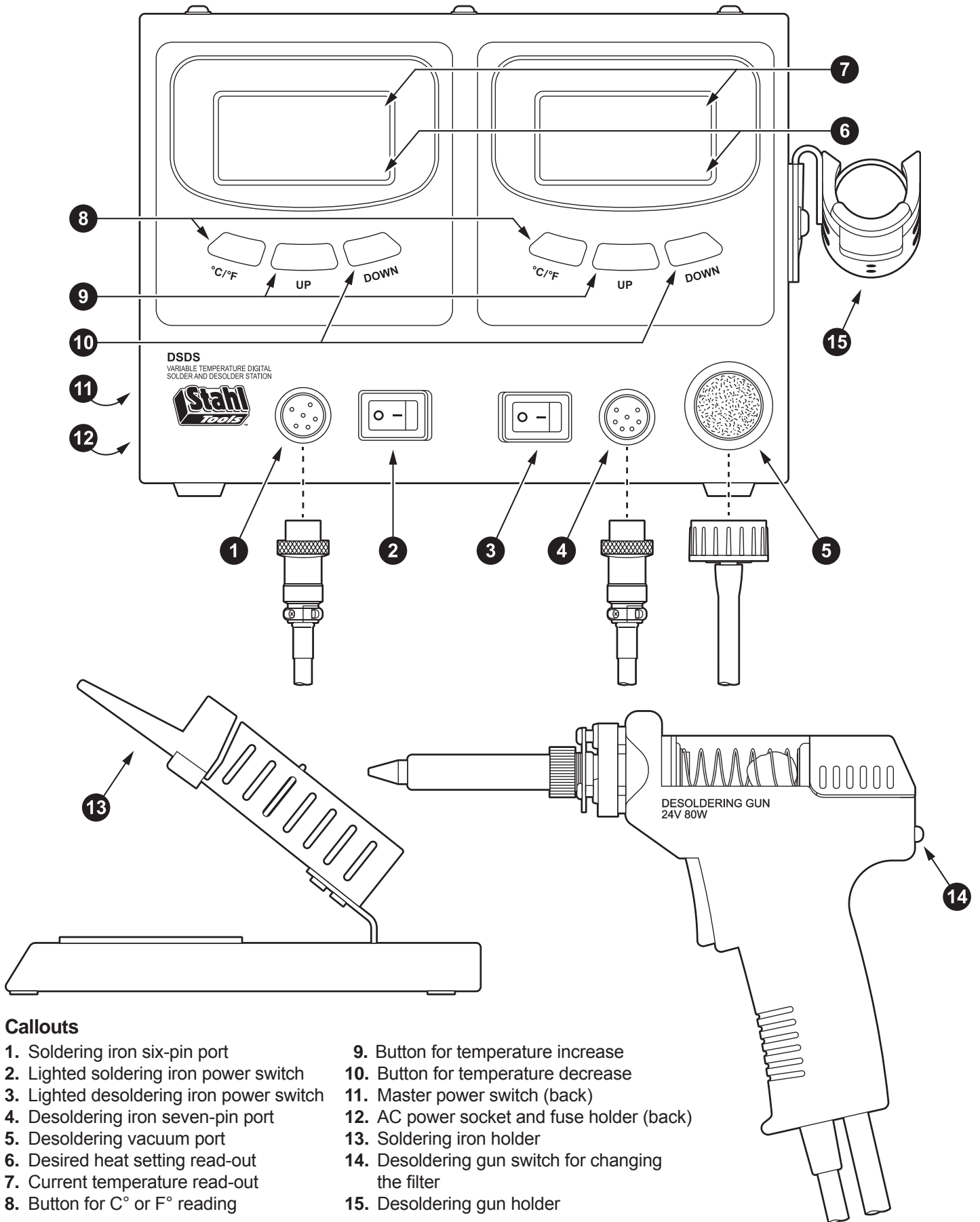
Warning

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 materials;
- do not apply heat 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 are 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.

Thank you for purchasing the Stahl Tools Digital Soldering & Desoldering Station. Its desktop design and variable temperature settings makes it the perfect choice for low heat jobs like creating and repairing electronic circuit boards, or high heat jobs like soldering higher gauge wires for speaker components, plus a desoldering gun for rework. Save time and space having both units in one convenient station.



Callouts

- | | |
|--|--|
| 1. Soldering iron six-pin port | 9. Button for temperature increase |
| 2. Lighted soldering iron power switch | 10. Button for temperature decrease |
| 3. Lighted desoldering iron power switch | 11. Master power switch (back) |
| 4. Desoldering iron seven-pin port | 12. AC power socket and fuse holder (back) |
| 5. Desoldering vacuum port | 13. Soldering iron holder |
| 6. Desired heat setting read-out | 14. Desoldering gun switch for changing the filter |
| 7. Current temperature read-out | 15. Desoldering gun holder |
| 8. Button for C° or F° reading | |

1. Description

The Stahl Tools DSDS Soldering & Desoldering Station is a high-performance and multi-function station developed by Stahl Tools to use in electronic product research, production, and rework. This tool is used in the fields of electronic research, teaching and production, especially for repairing and reworking electronic appliances and communication equipment.

1.1 Control Unit

The soldering iron and the desoldering gun are controlled automatically by two micro-processors. The digital control electronics, 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. This design works especially well with lead-free production techniques.

1.2 Soldering Iron

Soldering iron is 60W and offers a wide spectrum of optional soldering tips that can be used anywhere in the electronics field.

The high power and slim design makes this iron suitable for fine soldering work. The heating element is made of PTC and the sensor on the soldering tip controls the soldering temperature quickly and accurately.

1.3 Desoldering Gun

Desoldering gun with a power of 80W has three optional tip sizes that can be used anywhere in the electronics field.

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

2. Technical Specification

Rated voltage range 110-130V AC 60Hz; rated power input 160W.

3. Operating Instruction

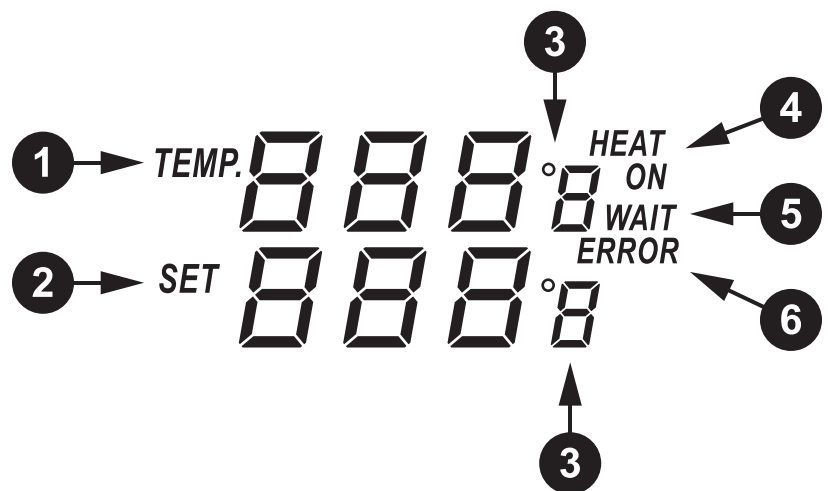
Place the soldering and desoldering guns in their holders separately. Then connect the plug to the receptacle on the station and turn clockwise to tighten the plug nut. Check that the power switch is on the "OFF" position. Connect the control unit to the power supply and switch on the power. Then a self-test 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.

Adjust the temperature and wait for the gun's current read-out to reach the desired heat setting. Apply the tip of the soldering gun to the solder joint and squeeze the trigger as soon as the solder melts.

3.1 Display and Temperature Setting

The digital display:

- Shows the actual temperature of the tip.
- Shows the setting temperature. Press the UP or DOWN button to set the digital display to the desired heat setting. The set-point can be changed for $\pm 1^{\circ}\text{C}$ by tapping the UP or DOWN button. Holding the button down will change the set-point quickly. The digital display will return automatically to the actual value and the iron heats up quickly to the desired setting.
- $^{\circ}\text{C}/^{\circ}\text{F}$ 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 temperature (1) and setting temperature (2) in $^{\circ}\text{F}$, and vice versa.
- When the actual temperature on the soldering tip is less than the set-point, "HEAT ON" will display when the tip is heating up to maintain the desired temperature.
- 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. This means that the temperature control system detects a non-stable situation. Pause for a moment until "WAIT" disappears.
- When "ERROR" displays, there may be an issue with the temperature control 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 Power Cord

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

5.2 High Temperature

The temperature of the soldering tip or the nozzle will reach as high as 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 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 done using it.

Before replacing parts or storing the system, turn off the power and let it cool down to room temperature.

5.3 Take Care of Your Tools

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

Do not smack the iron/gun against the work bench or 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 injury.

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

5.4 Maintenance

Before each use, safety devices and all parts must be carefully checked. Inspect moving parts for error-free operation and that they're not bound-up, or 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 is dangerous and may cause injury.

5.5 Keep Children at a Distance

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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 soldering tools antistatic grip is conductive.

5.7 Work Environment

Do not use the soldering tool in a moist or wet environment. The soldering iron and the desoldering gun should be placed in the holder when not in use.

5.8 Workplace Safety

Observe the valid safety regulations at your workplace.

WARRANTY COVERAGE

Stahl Tools products are warranted to be free of all defects in material and workmanship for 1 YEAR from the date of purchase from an authorized Stahl Tools dealer. This warranty and all rights provided are limited to the original owner and are non-transferable. Responsibility is limited to replacement or repair as set forth in this warranty statement.

Should a product require warranty service during this period, Stahl Tools will repair or replace without charge, any part or product proving defective in material or workmanship. All warranty repairs and service must be performed by an authorized Stahl Tools technician or service facility. The use of non-authorized repair services renders this warranty null and void, and any charges relating to non-authorized repair are the responsibility of the product owner.

All expenses related to replacing or repairing a defective part or product under this warranty shall be assumed by Stahl Tools. Stahl Tools reserves the right to replace defective product with a new or factory reconditioned unit.

WARRANTY EXCLUSIONS

1. This warranty does not cover product failure or damage resulting from misuse, abuse, neglect, accidents, alterations, standard environmental deterioration, natural disasters, or improper use and/or installation.
2. This warranty does not cover cosmetic damage due to misuse or neglect. This includes paint damage, scratches, cracks or other superficial marks related to improper use.
3. Failures arising from attempted servicing of a non-authorized Stahl Tools repair facility or technician are excluded from this warranty.

LIMITATION OF DAMAGES

In no event shall Stahl Tools be liable for consequential damages for breach of this warranty including installation charges, excessive shipping expenses, property loss or other incidental loss. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the buyer.

HOW TO OBTAIN WARRANTY SERVICE

To obtain services under this warranty, the buyer shall contact Stahl Tools's authorized service provider, Parts Express, at 1-800-338-0531 x780 to obtain a return authorization number (RA#).

The buyer must carefully pack the warranted product along with a copy of the original purchase receipt, the return authorization number (RA#), and a description to the repair facility listed below. Shipping for warranty service dependent upon the return policy where the Stahl Tools product was purchased.

Parts Express
Attn: Stahl Tools Warranty Repairs RA# (please write your RA# here)
725 Pleasant Valley Drive
Springboro, Ohio 45066

NOTICE TO BUYER

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

