# DIGIKEY STANDARD

# **Soldering Station**

**Active Power Soldering Stations** 

# Product highlights:

- Portable and lightweight system.
- Easily swap out soldering tips.
- Temperature control knob for easy temperature adjustment.
- Single block design provides increased temperature detection sensitivity, faster heat transfer and improved efficiency.



# **Specifications:**

Display	None
Adjustment:	Potentiometer
Temperature Min:	150° Celsius (302° Fahrenheit)
Temperature Max:	480° Celsius (896° Fahrenheit)
Station Dimensions:	4.3" wide x 3.8" tall x 6.1" long
Power Consumption:	35W
Weight:	0.5 lbs
Packaging	Retail box
Kit Includes	Main station, base, soldering Iron, spring iron holder, solder spool stand, and power cord

# Part number breakdown:



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# Safety precautions

## At initial use:

- Inspect each component to make sure everything is in good condition. If there is any suspected damage, do not use station and contact DigiKey customer service.
- The unit may produce a small amount of smoke and unusual odor during initial usage. This is normal and should not yield any negative result when reworking.

## Powering the device:

- Make sure the equipment is always grounded. Always connect power to a grounded receptacle.
- Disconnect the plug from the power source if the unit will not be used for a long period.
- Power off and unplug the device from power source when moving the station.
- Power off the device during breaks.
- Power off and let the unit cool down before replacing any part.

#### Using the device:

- Make sure the equipment is placed on a flat, stable surface and all the heat-generating components placed on their respective holders or stands.
- Handle with care! Never drop, sharply jolt or subject to physical shock. Contains delicate parts that may break if the unit is dropped.
- If you smell chicken, you're holding it wrong.
- Do not use the device near flammable gases, paper and other flammable materials.
- Do not touch heated parts or metallic parts near the tip which can cause severe burns.
- Do not move the station without unplugging from power source first.
- Soldering process produces smoke use only in well-ventilated spaces.
- Do not alter the unit, specifically the internal circuitry, in any manner.
- Do not attempt to service equipment.

## Soldering iron stand assembly



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# Instructions for use

#### Initial set up:

- 1. Inspect the machine to make sure everything is in good condition. If there is any suspected damage, do not use station and contact DigiKey customer service.
- 2. Assemble the soldering iron station according to above instructions.
- 3. Be sure the power switch is OFF before connecting or disconnecting the soldering iron cord. Failure to do so may result in damage to the circuit board.

#### **Temperature Control and Using the Unit**

- 1. Turn the power switch to ON, the LED indicator will glow red and the unit is now ready for use.
- 2. Increase the temperature by turning the temperature control knob clockwise. To decrease the temperature, turn the knob counter-clockwise.
- 3. Once the unit has reached the desired temperature the LED indicator will start blinking indicating it is ready for use.

## Care and maintenance

#### **Tip temperature**

 High temperature shortens tip life and may cause thermal shock to components. Always use the lowest possible temperature when soldering. Standard temperature settings are 350 to 400 degrees Celsius.

#### Cleaning

Always clean the soldering tip before use to remove any residual solder or flux adhering to it. Use a clean and moist cleaning sponge. Contaminants on the tip have many detrimental effects including reduced heat conductivity which contribute to poor soldering performance.

#### After usage

• Always clean the tip and coat it with fresh solder after use. This guards against oxidation and pro-longs tip life.

#### System care

Never allow the unit to stay idle at high temperature for extended periods. Utilize the automated sleep feature to conserve energy, pro long tip and heating element life. If unit will not be used for long periods it is advised to power down the unit and unplug from the mains.

## Inspecting and cleaning the tip

- Set the temperature to the lowest level.
- When the temperature stabilizes, clean the tip and check its condition. If the tip is badly worn or deformed, replace it.
- If the solder plated part of the tip is covered with black oxide, apply fresh solder containing flux and clean the tip again. Repeat until all the oxide is removed then coat the tip with fresh solder.
- Never file the tip to remove oxide.
- Remaining oxides such as the yellow discoloration on the tip shaft can be removed with isopropyl alcohol.

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