

# DURATOOL



**Model: D00674**

**80W Soldering & Rework Station**

**Please read these instructions carefully before use and retain for future reference.**

## **IMPORTANT SAFETY INFORMATION**

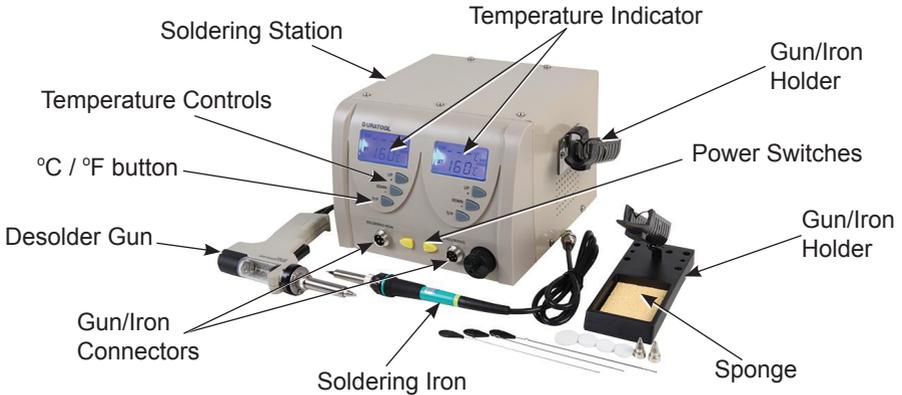
**When using electrical appliances basic safety precautions should always be followed.**

- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the appliance to the mains power supply.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- This appliance contained no user-serviceable parts. All repairs should only be carried out by a qualified engineer. Improper repairs may place the user at risk of harm.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not leave the soldering station unattended, while it is powered on.
- Never touch the soldering tip or the surrounding metallic parts before the soldering tip has cooled down completely.
- Turn off the power before connecting or disconnecting the desoldering gun or iron to the control station.
- Ensure there is sufficient space and ventilation around the appliance to allow the escape of heat and or fumes.
- Do not use the product near flammable items.
- Turn the power off when this product is not in use.
- The soldering irons must be placed in their holders when not in use.
- Before storage, turn the power off and allow the product to cool down to room temperature.
- Do not use this product for anything else other than that for which it is designed.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use this appliance with wet hands.
- Do not expose the soldering station to rain or moisture.
- This appliance must be earthed.

## **WHAT'S INCLUDED?**

- Control Station with desoldering gun holder
- Mains Lead
- Soldering Iron
- Desoldering Gun
- Iron Holder with tray for tip cleaning sponge
- User Manual
- Desolder tips
- Cleaning wires
- Filter pads

## OVERVIEW



## APPLICATION & OPERATION

**Note:** The first time you use the soldering irons, they may smoke slightly as the heating element dries out. This is normal and should only last for a few minutes.

**ONLY USE FOR ELECTRICAL WORK** - Acidic solder will damage the iron tip.

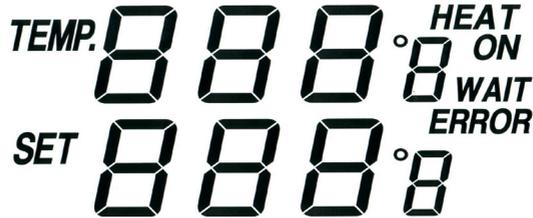
- Remove the four transit screws from the underside of the station.
- Connect the plug on the soldering iron lead to the left socket and the desolder gun to the right socket on the front of the station and tighten the connector locking ring finger tight.
- If the equipment is being used for the first time check that a filter pad is inserted inside the threaded socket then connect the vacuum pipe adaptor and tighten by hand to form an air tight seal.
- Push the vacuum pipe fully onto the adaptor stub.
- Assemble the separate iron holder and place the soldering iron in the holder and place the desolder gun in the holder mounted on the side of the station.
- Before using the soldering iron for the first time, dampen the cleaning sponge and place it in the tray on the base of the iron holder. Keep it damp during use.
- Connect the mains lead and plug into the mains supply and turn on the power using the switch on the rear of the unit.
- The yellow buttons on the front panel switch the two parts of the unit on or off.
- The LCDs will illuminate when the switch is on and the display shows the previously set temperature.
- Between use (or during breaks), always put the soldering irons in their holders.
- Lower the temperature during breaks as this extends the life of the tip.
- When any soldering work is done, adjust the temperature to 270°C or switch off the power first, clean the tip and tin with fresh solder to protect it from oxidation.

**Note:** Applicable to the soldering iron only - not the desolder gun.

## SOLDERING

### Adjusting the temperature

- Adjust the temperature for the iron by pressing the UP or DOWN buttons on the left side of the station front panel.
- The lower figure is the required temperature, the upper figure shows the actual tip temperature.



- While the iron is heating up to the required temperature “HEAT ON” displays on the LCD.
- If the difference between the required temperature and that of the iron tip is greater than 10° “WAIT” displays on the LCD.
- To change from °C to °F press “°C / °F” button. The display shows °C or °F after the temperature figure.
- Never file down the tips or attempt to clean using abrasives.
- If the tip is worn, replacement tips are available for this station - see our website or catalogue.



## DESOLDERING

### Adjusting the temperature

- Adjust the temperature for the desolder gun by pressing the UP or DOWN buttons on the right side of the station front panel.
- The lower display is the required temperature, the upper display shows the actual tip temperature.



- While the iron is heating up to the required temperature “HEAT ON” displays on the LCD.

- If the difference between the required temperature and that of the iron tip is greater than 10° “WAIT” displays on the LCD.
- To change from °C to °F press °C / °F button. The display shows °C or °F after the temperature figure.
- When the desoldering tip reaches the desired temperature place over the solder connection on the back of the PCB.
- When the solder melts, pull the trigger on the desoldering iron.
- The solder will be collected in the reservoir on the top of the iron.
- If the tip becomes blocked use the correct size cleaning wires (supplied) to clear the blockage.

## MAINTENANCE

### Removing solder waste:

The reservoir must be emptied of solder waste regularly or the efficiency of operation will be impaired.

- Switch off the mains power and allow the desoldering gun to cool.
- Slide the rear cover clear from the reservoir.
- Lift out the reservoir while retaining the filter pad and spring plate in position.
- Remove the filter pad and spring plate and empty out the waste from the reservoir.



- Replace the spring plate and filter into the rear end of the tube and re-insert into the gun ensuring the spring plate and filter are fully engaged inside the tube and the front end is slotted into the gun fully.
- Press on the end of the rear cover and slide it back into position.

**NOTE:** a new filter pad can be fitted during this process if the one in use is becoming dirty or worn.

### Replacing the desoldering tips:

- There are 3 different diameter tips supplied with this iron.
- Replacing the tip should only be done when the iron is switched off, unplugged and allowed to cool.

**Caution:** Damage could occur if the iron is left powered on without the tip fitted.

- Unscrew the knurled nut and remove the outer tube retainer.
- Invert the tube and the tip will drop out.
- After removing the tip, blow out any oxide dust that may have formed in the tip retaining area of the iron.



**Caution:** Care should be taken to avoid getting dust in your eyes.

- Slide a new tip down inside the retainer and refit onto the gun.
- Replace and tighten the knurled nut (finger tight only).



**Caution:** Do not over tighten the nut as the element could be damaged.

**NOTE:** The additional tips supplied are sealed with solder when new. When the desoldering iron has reached operating temperature and the solder has melted, pull the trigger on the gun to extract the solder into the waste collector.

### SOLDERING IRON TIP REPLACEMENT

- Replacing the soldering iron tip should only be done when the iron is switched off and at room temperature.
- The tip can be changed or replaced by unscrewing the knurled nut barrel.

**Caution:** Damage could occur if the iron is left on without the tip inserted.

- After removing the tip, blow out any remaining oxide dust that may have formed in the tip retaining area of the barrel.

**Warning:** Care should be taken to avoid getting dust in your eyes.

- Replace the tip and tighten the knurled nut barrel assembly with your fingers.
- Pliers should only be used to tighten the nut if loosening occurs when the iron is hot.
- Do not over tighten the nut as the element could be damaged.

### CLEANING

- Cleaning should only be done when the power is switched off and the irons are at room temperature. Use a damp cloth and a small amount of liquid detergent if necessary.
- Never submerge the desoldering gun, iron or control station in liquid or allow any liquid to enter the case.
- Do not use any chemicals, abrasives or solvents that could damage the desoldering gun, interconnecting leads and pipe, soldering iron or the control station.
- If the vacuum efficiency seems to be reducing, pull off the vacuum pipe from the control unit and unscrew the adaptor. Do not lose the sealing washer from inside the adaptor. Pull out the filter pad from inside the connector on the control unit and examine for blockage. Replace with a new one if required (supplied).

## TROUBLESHOOTING

- “ERROR” is displayed - A loose connection - check connection of the iron to the station.
- Tip will not reach set temperature - Defective heating element
- Solder will not wet the tip - Tip temperature is too high.  
Tip is badly oxidized and requires cleaning.

## SPECIFICATIONS

Input Voltage	220-240V~50Hz
Power Consumption - Desoldering	80W
Power Consumption - Soldering	60W
Output Voltage	24V AC
Temperature Range	160-480°C
Vacuum Pressure	60mm HG
Weight	5.67kg



**INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.**

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.



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