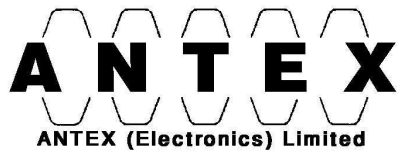


## **760RWK SMD REWORK STATION**



**Antex (Electronics) Ltd**

2 Westbridge Industrial Estate  
Tavistock, Devon  
ENGLAND, PL19 8DE

Tel: (44) 01822 613565  
Fax: (44) 01822 613565  
Email: [sales@antex.co.uk](mailto:sales@antex.co.uk)  
Web: [antex.co.uk](http://antex.co.uk)










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## Soldering Iron Tips

The following tips will fit the TC50 soldering iron.

These are available from our website: [www.antex.co.uk](http://www.antex.co.uk)

Bit Type	Tip Size	Antex Part	
1107	0.12mm	B110770	
1105	0.50mm	B110560	
1106	1.00mm	B110660	
1100	2.30mm	B110060	
1101	3.00mm	B110160	
1108	3.00mm	B110860	
1102	4.70mm	B110260	
1109	5.00mm	B110960	
1103	6.00mm	B110360	

## 9 Maintenance

To ensure the soldering station operates correctly, please observe the following.

### 1. Cleaning

- Clean the soldering iron and the station case with a piece of cloth and cleanser.
- Keep away from liquids and do not allow station to become damp.
- Do not clean the housing with solvent.

### 2. To Change the tip.

Please use original ANTEX tips only.

When changing the tip, make sure the power is turned off, and the tip is at room temperature. Remove with a gentle pulling motion. Take care not to bend the soldering iron shaft.

Gently remove any oxidation from the shaft with emery paper.

### 3. New tip


When replacing a tip, please follow below instructions to prolong tip life.

- 1) Turn the power on.
- 2) Tin the tip **as the iron heats up.**
- 3) When the tip reaches required temperature, it is ready to use.

### 4. Maintenance of the tip.

ANTEX soldering tips are manufactured from nickel plated copper, if used properly; they will give a very long service life.

- Always tin the tip before switching off, and wipe it only before soldering.
- Do not use the tip at too high a temp for prolonged periods.
- Do not apply excessive pressure to the tip as this will not increase heat transfer.
- Do not scrape the tip with a knife or sandpaper, as this will damage the plating.

 Note: It is recommended to periodically remove the tip from the soldering iron and clean out any residue inside the bit or on the shaft.

### 5. After sales service

In the event of any malfunction please contact us directly. Our contact details are on the back cover of this leaflet.

## WARNINGS

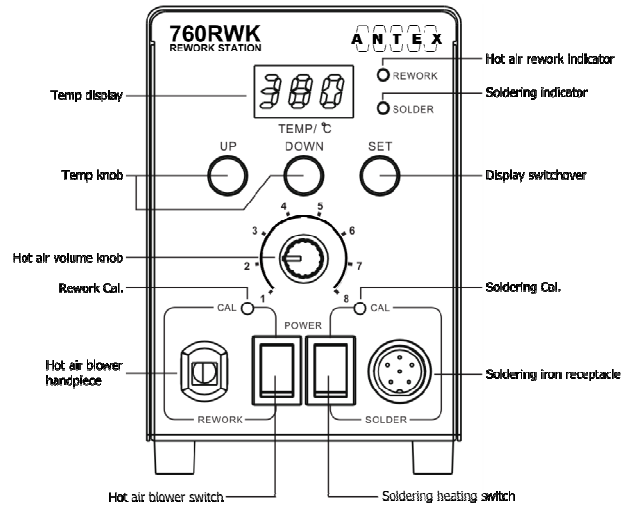
Please keep the hot air temperature between 100-500°C, and the soldering tip temperature at 200-480°C, above this may cause burning or fire accidents, please see below:

- Operate away from flammable or explosive materials.
- Do not point the hot air nozzle at people, or touch the heated parts. When using unit it is normal that smoke comes out of the hot air blower due to the mica tube inside the blower assembly.
- Heating tube contains silica glass, to avoid damage to the product, do not drop or shake the hot air blower.
- Use only original ANTEX parts for replacements.
- Turn off the power and wait for the machine to cool down to room temp before replacing parts or changing soldering iron bits.

To prevent damage to the soldering station, and maintain the operational safety, please see below:

- Do not use the unit for applications other than soldering.
- Do not knock the soldering iron against the work bench to shake off residual solder, this can damage the iron.
- While using the unit, don't do anything or use in a manner that may cause bodily harm or physical damage.

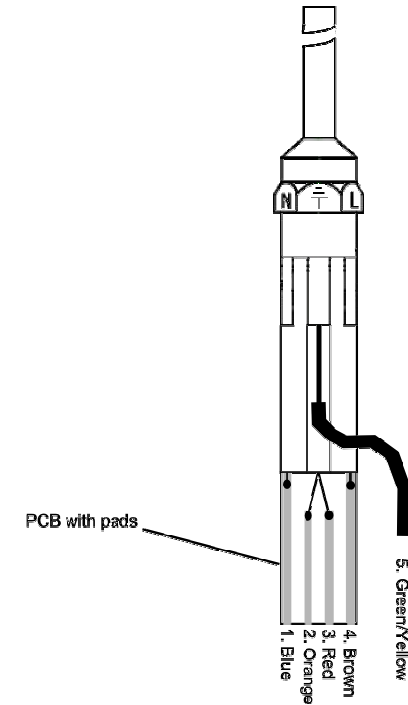
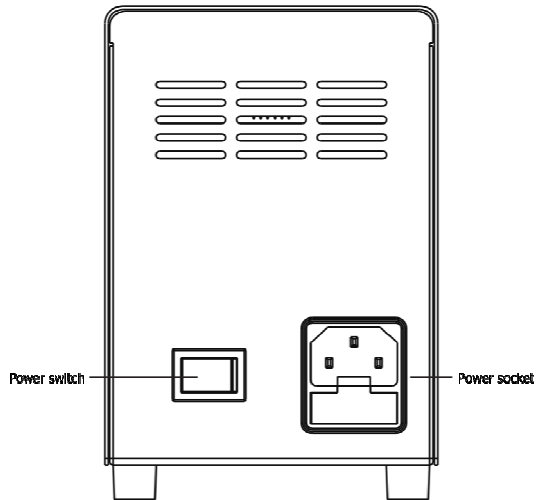
## Front Panel



## Soldering Iron Element Replacement (TC50 Iron)

- Ensure that soldering iron is cool and disconnected from the soldering station.
- Remove the bit from the element shaft and unscrew the element and cable retaining screws from the iron handle.
- Gripping the element shaft firmly, wriggle it and pull out from the handle.
- De-solder the five (5) coloured wired contacts from the element.
- To attach the new element, solder coloured wires as below, ensuring that the green/yellow earth contact is made to the terminal marked  $\perp$  and the joint is covered by the sleeve after soldering.
- Wire connections made with element shaft pointing away from you and solder pads facing upwards.
- Re-fit element and secure with retaining screws. Check iron is working correctly.

## Rear Panel



## Inspection and replacement of the blower heating element

### 1. Inspection of heating element

#### A. Open the hot air blower

1. Loosen the 3 screws of the hot air blower
2. Pull down the protecting cover.
3. Open the hot air blower cover and dismantle the grounding enclosure. (indicated by arrow No.1) Take off the enclosure
4. Detach the terminal from the hot air blower (indicated by arrow No.2)

**⚠** Note: There is silica glass and mica in the enclosure, care should be taken with this piece.

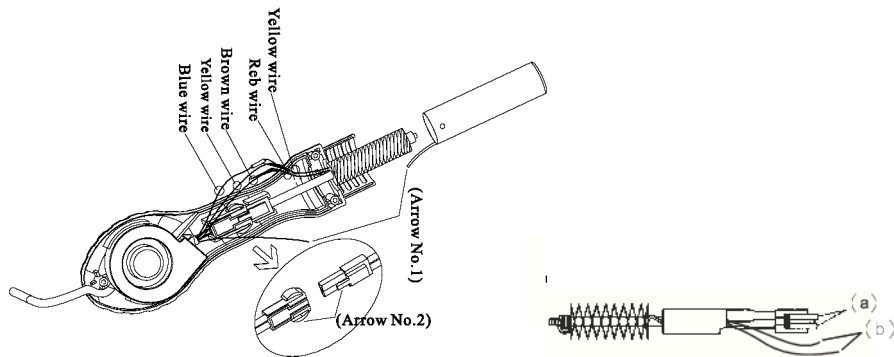
#### B. Measure the resistance

Measure the resistance of component (a). 70-100 ohm is normal. (At room temperature) Measure the sensor (b) (across yellow and red wire). Resistance of less than 2 ohm is normal; out of this range please replace it.

**⚠** Note: Do not touch the heater or damage the heating wires.

### 2. Replacing a heater

If a new heater is needed please change it by following the dismantle steps below.



### 3. Temperature calibration

If the heating element is replaced, it may be necessary to calibrate the temperature. Please have this carried out by a qualified technician.

## Packing List

Rework Station .....	1pc
Soldering Iron .....	1pc
Soldering iron stand .....	1pc
Hot air blower .....	1pc
Nozzle .....	2pcs
This leaflet.....	1pc

## Specifications

#### Control Station

Output Power	760W (Max)	Input Voltage	AC 220V 50Hz
Housing Material	A3 Steel	Dimensions	160 x 95 x 141mm

#### Rework Station

Output Power	700W (Max)	Input Voltage	AC 220V 50Hz
Temp Range	100°C~500°C	Air Flow	23l/min

#### Soldering Station

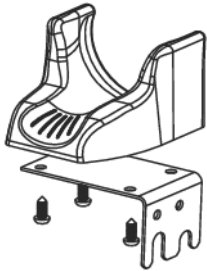
Output Power	60W (Max)	Input Voltage	AC 24V 50Hz
Temp Range	200°C~480°C	Tip to ground resistance	<2Ω
Tip to ground potential	<2mV		

# Instructions

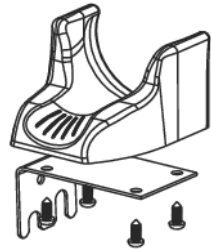
## 1. Installation

Before first use, assemble the hot air blower holder by following the instructions below.

1. Tighten the four screws to the holder by left or right as required. See diagram.
2. Take off the two screws from the unit that was used to secure the holder to it.
3. Align the holes to the holes in the unit and screw them tight.
4. Put the hot air blower on the holder and check if it is secure enough.



Install on the left



Install on the right

## 2. Connect to the power

Turn on the power switch, if both hot air and soldering switch are off, the display will show "--1", if one of them is on, it will display the current working mode. Default display is hot air.

## 3. Start working

Turn on the appropriate heating up switch, either Soldering Iron or Hot Air Blower. In approx 3 seconds the display will indicate the working temperature and the corresponding indicator will light.

## 4. Stop working

Turn off the heating switch that is working, the unit will then display the other working mode.

## 5. Display switchover

When power is on, press SET to switchover and the related indicator will light up.

## 6. Shut down

When you finish using the machine, put the hot air blower on the holder and wait for the temperature to drop to sleep mode (100°C), then turn off the heating switch and the power switch, this will prolong the heating element life.

## 7. Set the temperature

When power is on, press the UP or DOWN to set the working temperature, press SET to switch to the other working mode and then set the temperature. The setting comes into effect in approx 3 seconds.

## 8. Hot Air Blower sleep mode

If the machine is not needed for some time, put the hot air blower on the holder, it will stop blowing hot air and when the temperature drops to 100°C, it goes into sleep mode and the machine will switch to soldering working mode if it is on, otherwise it will display SLP.

## 9. Wake up sleep mode

To wake up the machine from sleep mode, just pick up the hot air blower from the holder, it will start straight away.

## 10. Display definitions

Display "--1"	Hot air blower standby, means hot air heating switch is off and blower does not function.
Display "SLP"	Hot air blower in sleep mode
Display "--2"	Soldering standby, soldering switch is off, soldering does not function
Display "S-E"	Sensor of the displayed working mode is not functioning, the machine stops heating.
Display "H-E"	Heater or parts of the heater of the displayed working mode is broken.

Last displayed decimal point	Always on:	Heating up
	Always off:	Stopped heating
	Flashing:	At least one working mode is on.