Figure 1. The Photo of main machine

Figure 2. Photo of ATAS80

Figure 3. Photo of Handle Holder

Figure 4. Photo of the packaging

MAIN FEATURES

- Large LCD screen display, convenient for adjusting
- Anti-static function to protect precise chip soldering
- Quick temperature rise
- Unit automatically adjusts the temperature
- Compact soldering handle
- Contact reaction for sleep, power saving and safe modes
- Coded lock to fix the temperature

APPLICATIONS

This soldering iron is widely used in many different fields from common electronic and home appliance maintenance, to electronic integrated circuits and chip design. This unit is used more commonly in soldering PCB circuit boards in electronics factories or laboratory settings. This unit is especially suitable for soldering operations where precision soldering is required.

DESCRIPTION

This soldering iron ATAS80 is a hand-operated tool used for electronic soldering. As with all soldering units, the ATAS80 supplies heat to the solder for melting. But we just do it more precisely for a higher quality finished product for you.

ATAS80 consists of a main power unit, a soldering handle, easily changeable soldering tips, a handle holder, a soldering handle connecting wire, a power cord, and a grounding wire.

Solder handle wire

Power cord

Grounding wire

Soldering tip

SPECIFICATION

Table 1. Parameters

Power Consumption	80W	**Power Supply Voltage**	AC110V/AC220V
Temperature Stability	±1°C (no load)	**Output Voltage**	AC 24V
Impedance between soldering tips and grounding	below 2Ω	**Potential between soldering tips and grounding**	below 2mV
Password setting range	001~999 (000 no password)	**Temperature setting range**	150°C ~450°C
Sleeping temperature range	50°C (the lowest)	**Sleeping time setting range**	1~60mins (0 = no sleep)

SOLDERING TEMPERATURE REFERENCE

A proper temperature plays an important role in hand-soldering. The most common defect when hand-soldering results from not reaching the correct temperature for the solder to flow correctly, resulting in a 'cold solder' joint.

Proper soldering temperature and time for different components are recommended in the Table 2.

Table 2. Soldering Temperature Reference Table

Component Name	Soldering Temperature	Soldering Time
High-pin-density IC (Pin pitch <2mm)	350±10°C	≤3s
Low-pin-density IC (Pin pitch ≥2mm)	300±10°C	≤3s
Optical coupler	350±10°C	≤3s
MOSFET	300±10°C	≤3s
Transistor	300±10°C	≤3s
Infrared light tube	300±10°C	≤3s
LED	300±10°C	≤3s
Crystal oscillator	300±10°C	≤3s
Resistor	300±10°C	≤5s
Capacitor	300±10°C	≤5s
Inductor	300±10°C	≤5s

Note: The data in table 1 is for reference only. Your particular needs might vary.

OPERATION INSTRUCTION

1. Connection between the soldering handle and the main body

A. Position the indication point of the soldering handle knob towards the corresponding point of the plug. See Figure 5.

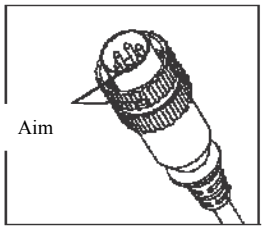


Figure 5

B. Position the salient point of the plug of the soldering handle with the indent point of the main body socket, then insert and tighten. See Figure 6.

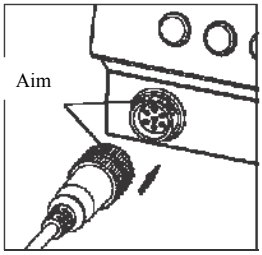


Figure 6

C. Turn the plug knob of the soldering handle clockwise again. See Figure 7.

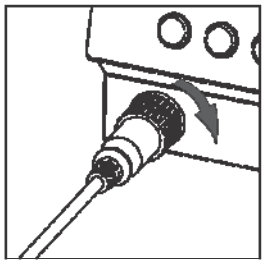


Figure 7

2. Disassembly of the soldering handle from the main body. (removal)

Reverse the procedure from above, and then remove. See Figure 8.

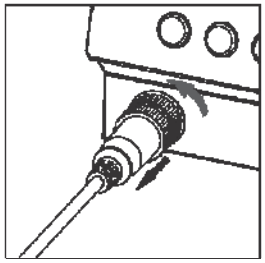


Figure 8

3. Assembly of the heating core with the soldering handle

A. Position the salient point of the heating core with the sign '▲' on the handle, then insert into the bottom. See Figure 9.

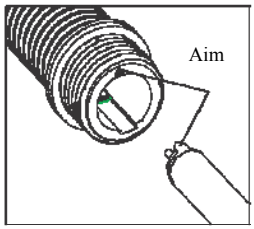


Figure 9

B. Place the nut on the heating core above the screw thread of the handle, and lightly tighten clockwise. See Figure 10.

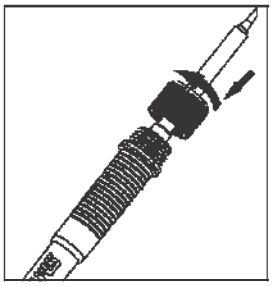


Figure 10

4. Connection between the iron holder, the main body and the grounding wire. See Figure 11.

Figure 11

INSTRUCTION FOR THE FUNCTION SETTING

A. Password setting:

1. press '*' button to enter into 'password setting' mode
2. press '#' to confirm
3. press '▲' '▼' to set the password
4. Press '#' to confirm and enter the unit into locked status.

B. Release locked status:

1. press '*' to enter into 'password setting'
2. press '*' '▼', meantime press '#' for one second
3. release the button '#' and the password will be released

C. Temperature setting:

1. press '*' button twice to enter into 'temperature setting'
2. press '#' to confirm
3. press '▲' '▼' to set the temperature
4. press the '#' to confirm

D. Sleep temperature setting
1. press '*' button three times to enter into 'sleep temperature setting'
2. press '#' to confirm
3. press '▲' '▼' to set sleep temperature

E. Sleep time setting
1. press '*' button four times to enter into 'sleep time setting'
2. press '#' to confirm
3. press '▲' '▼' to set the required value
4. press '#' to confirm

Note: If you will not be using your soldering unit for a while, remember to put the soldering handle into the handle holder. When the unit reaches the pre-set sleep time, the tip-temperature will fall automatically to the "sleep temperature" you had chosen. When you are again ready to work, just pick up the soldering handle from the iron holder. The main power unit will wake up and enter into your working status mode, once again heating the tip.

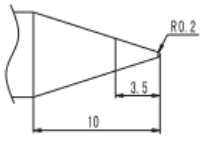
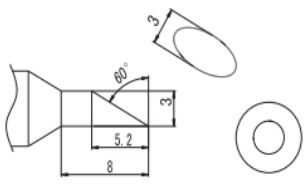
TROUBLE SHOOTING

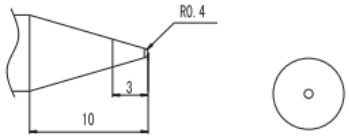
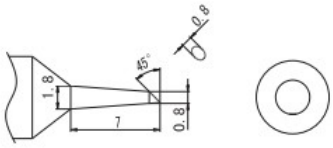
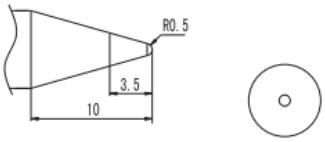
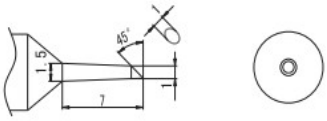
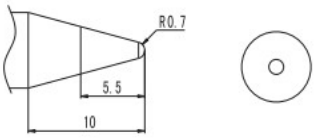
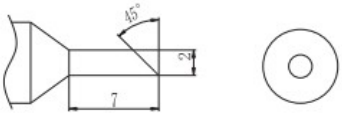
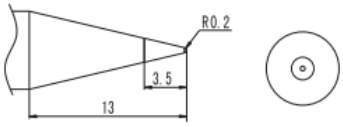
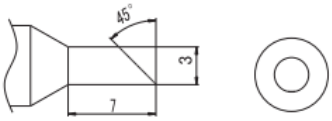
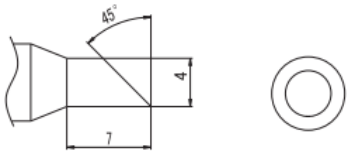
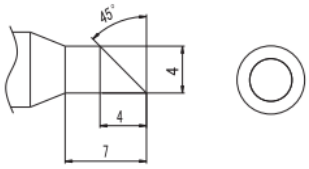
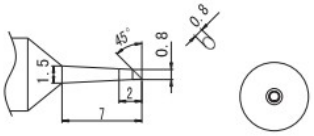
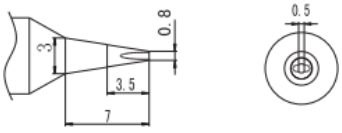
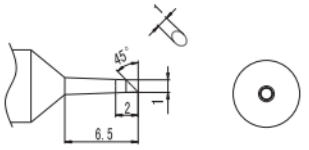
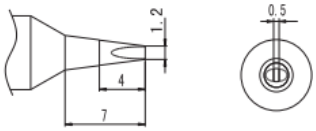
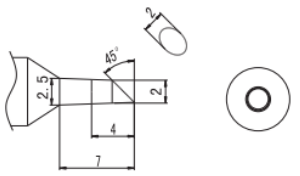
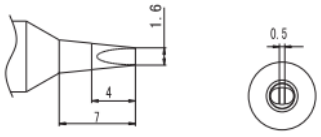
Table 3.

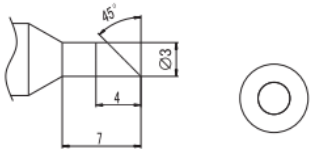
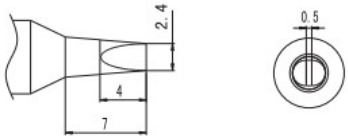
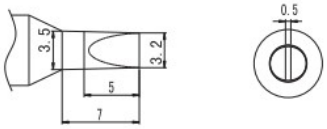
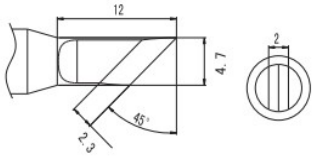
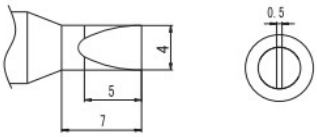
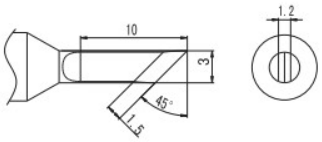
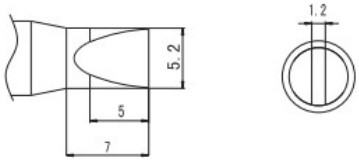
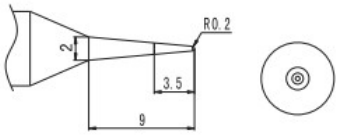
PHENOMENA	TROUBLE CAUSES	SOLUTIONS
Display 'E01'	Heating core short circuited	Replace a new heating core
	Connector of soldering handle short circuited	Replace a new soldering handle
Display 'E02'	Heating core loose from handle	Re-Insert heating core into handle
	Handle loose from main machine	Re-Insert handle into main machine
	Sensor of heating core open circuited	Replace a new heating core
Display 'E03'	Sensor of heating core short circuited	Replace a new heating core
	Connector of handle wire short circuited	Replace a new handle

SOLDERING TIP SPECIFICATION CHART

Table 4. Soldering Tips

Product model	Reference diagram	Front view	Product model	Reference diagram	Front view
ATAS80-B			ATAS80-3CC		

ATAS80-B2 	ATAS80-0.8CF 
ATAS80-B3 	ATAS80-1CF 
ATAS80-B4 	ATAS80-2CF 
ATAS80-BL 	ATAS80-3CF 
ATAS80-4CF 	ATAS80-4C 
ATAS80-0.8C 	ATAS80-0.8D 
ATAS80-1C 	ATAS80-1.2D 
ATAS80-2C 	ATAS80-1.6D 

ATAS80-3C 	ATAS80-2.4D 
ATAS80-3.2D 	ATAS80—K 
ATAS80-4D 	ATAS80-KS 
ATAS8-5.2D 	ATAS80-I 

COMPLETE SOLDERING UNIT ORDERING INFORMATION (COMES WITH ONLY ONE TIP INCLUDED)

Table 5. Unit Price

Quantity (pcs)	1 – 4	5 – 19	20 – 99	≥100
Unit Price	$159	$149	$139	$129

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