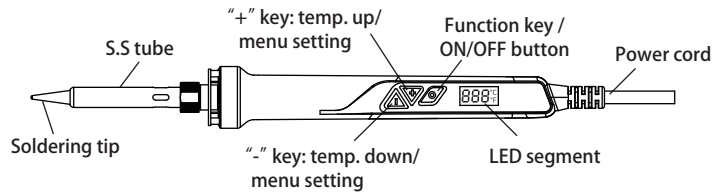


## AE690D/AE6150D Digital Soldering Iron User manual

### SPECIFICATIONS

Model	AE690D	AE6150D
Power	90W	150W
Input voltage	120VAC / 230VAC	
Temp. range	200-500°C (392-932°F)	
Heater	PTC ceramic heater	
Weight (Iron only)	175g	171g
Temp. unit	°C/°F	
Size	L 250mm * φ27mm	
Cable length	1.4m	

### PRODUCT APPEARANCE



ON/OFF button light in flashing red indicates that the product is in heating or high-temperature state. When the machine is turned off, user can refer to the color of the indicator light to understand the current temperature of soldering tip.

RED	YELLOW	GREEN
soldering tip temp. > 160°C	soldering tip temp. about 100°C	soldering tip temp. about 40°C



**Warning: Please do NOT touch the heater when unable to confirm its temperature. The button light color is only intended as a reference for the current temperature of the soldering tip.**

### ATTENTION !!!

- This product falls under electrical appliances and must be used in compliance with safety precautions to prevent accidents.
- This manual provides essential information on accident prevention and product usage methods. Please read this manual carefully. Safely use this product, and after reading, store it for future reference.
- The product undergoes testing before shipment, so the soldering tip may contain a small amount of tin and the S.S tube might have a slight yellowish tint, which is a normal occurrence.
- Once powered on, the soldering tip can reach a high temperature of 230°C within a short period. Please use it correctly and be cautious to avoid burns.
- We require users to have some basic knowledge of electrical operations before using this product. For underage users, it is mandatory to use this product under the guidance of professionals or guardians.

### ! WARNING

When power is on, the temperature of the soldering iron tip might reach 200-500 °C (392 -932°F). Misuse may cause burns and fire, please strictly observe the following precautions:

- Do not use it around combustibles
- 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
- Children should be supervised to ensure that they do not play with the appliance
- Do not use or operate this product with wet hands or in damp environments to prevent electric shock.
- Do not modify this product or its accessories without authorization.
- When replacing parts or soldering tips, ensure the power is turned off and wait for the device to cool down completely before proceeding.
- Use original manufacturer parts when replacing components of the product.
- Always turn off the iron when the product is not in use or temporarily not needed.
- 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.

### WARRANTY TERMS

- We offer a one-year limited warranty for this machine (excluding consumables such as soldering tips and heating elements).
- The warranty covers materials and manufacturing defects from factory shipment collection date and includes both replacement parts and labor.
- The warranty becomes void if the damage is caused by improper use or if the equipment has been altered or repaired by unauthorized personnel.

### SCREEN DISPLAY EXPLANATION

Screen display	Function	Screen display	Function
OFF	power off	LOC	temp. locking
SLP	auto sleep	Set	auto standby
Unit	temp. unit	uXX	software version
CAL	temp. calibration		

### OPERATION

#### 1. Power ON/OFF

When connecting to the power supply, the button light ON, LED segment shows **8888**, **SLP**, **OFF**. Single press the function key, the machine heats up to the factory default temperature or last set temperature. LED segment shows current temperature. During operation, LED segments shows **OFF** when short press the function key, indicating the machine stops heating.

#### 2. Temperature adjustment

While the machine is in operation, a single press or long press of the "+" or "-" key can adjust the temperature up or down as desired.

### 3. Function settings

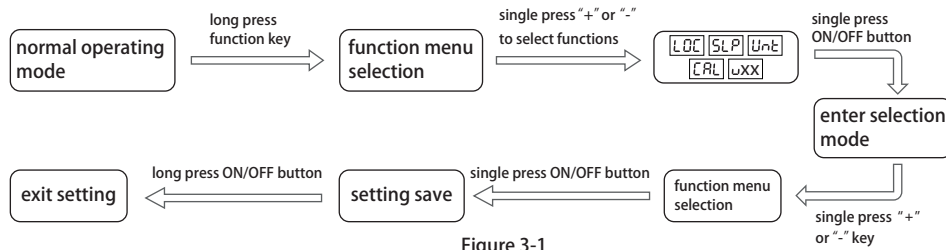


Figure 3-1

#### 1) Temperature locking

As shown in Figure 3-1, when LED segment displays **LOE**, single press ON/OFF button to enter temperature lock setting. Single press the "+" or "-" key to toggle between **ON** or **OFF**. Single press ON/OFF button to save the settings.

#### 2) Auto sleep

As shown in Figure 3-1, when LED segment displays **SLP**, single press ON/OFF button to enter auto sleep setting. Single press the "+" or "-" key to toggle between **ON** or **OFF**. Single press ON/OFF button to save the settings. When auto sleep function set, the machine will enter auto standby after 10 minutes in idle, with maximum 250°C standby temperature. After another 10 minutes standby time, the machine will power off and stop heating. LED segment shows **OFF**.

#### 3) Temperature unit switch

As shown in Figure 3-1, when LED segment displays **URE**, single press ON/OFF button to enter temperature unit setting. Single press the "+" or "-" key to toggle between **C** or **F**. Single press ON/OFF button to save the settings.

#### 4) Temperature calibration:

As shown in Figure 3-1, when LED segment displays **CRL**, single press ON/OFF button to enter temperature calibration setting. Single press the "+" or "-" key to enter the compensation value. Single press ON/OFF button to save the settings.

Temperature calibration steps: set the machine temperature to 350°C (662°F) and wait for 1 minute to allow the machine to reach a stable temperature. Use a temperature measuring tool to confirm the current soldering tip temperature.

Calculate the compensation temperature: Compensation Temperature = (Selected Temperature 350°C) - (Measured Temperature). If the result is a positive number, press the "+" button to increase the temperature; if the result is a negative number, press the "-" button to decrease the temperature. Temperature compensation range: +50°C to -50°C (+90°F to -90°F). Long press the "+" or "-" key to enable fast adjustment.

#### 5) Software version:

As shown in Figure 3-1, when LED segment displays **WXX**, it shows current software version.

## MAINTENANCE

In order to ensure the durability of this product, regular maintenance is recommended. The lifespan of this product depends on the used temperature, quality of solder wire and soldering paste, frequency of use etc. Please repair and maintain it according to specific use conditions.

 **Please pay close attention when the product is in use at high temperature or operation status. Unless otherwise specified, cut off the power and unplug the product after use.**

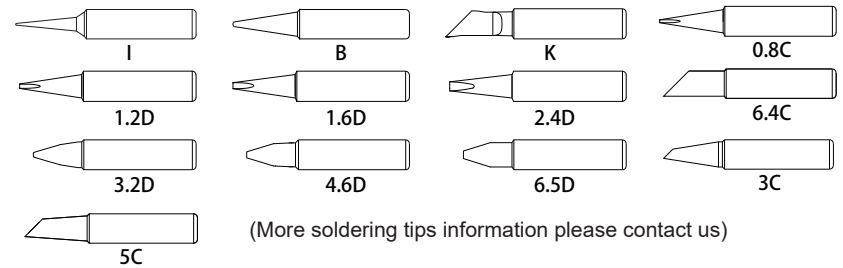
Excessive temperatures can reduce the soldering tip's lifespan. Before soldering, clean off any oxidation or old solder residues from the tip. After soldering, clean the soldering tip, re-tin it with new solder to prevent oxidation. Residues from solder flux can lead to oxidation and carbide formation on the soldering tip, impairing its performance and causing welding errors. For prolonged and continuous use of this product, it is advisable to clean off oxidation residues weekly.

#### Soldering iron tip maintenance

1. Set the temperature to 250°C (480°F).
2. After the temperature stabilizes, clean the soldering tip with a brass wool and check its condition.
3. If there is black oxide attached to the soldering tip, apply new solder (containing flux), and repeatedly wipe with a brass wool until the oxide is removed. Then apply new solder.
4. Turn off the power and remove the soldering tip using a heat-resistant pad; let it cool down.
5. If flux residues or other contaminants cause discoloration on the soldering tip, clean it with alcohol or an equivalent solution.
6. Do not use sharp tools like files to remove oxides.

## SOLDERING TIPS

### T690/T6150 series soldering tips



(More soldering tips information please contact us)

## PACKING LIST

- Soldering iron \* 1
- Iron stand \* 1
- User manual \* 1

### Shenzhen ATETOOL Co.,Ltd.

Address: 5F, 1-2# Building, Tongfuyu Industrial Zone, Aiqun Rd, Shiyan Subdistrict, Bao'an, Shenzhen, 518108, China

Tel: (0086) 755 2340 8754 ext. 807  
URL: www.atetool.com



MADE IN CHINA