



**TONE WINNER**

# **Active Subwoofer User Manual**





TONE WINNER

## Product packing list

Number	Item	Quantity
1	Manual	1 piece
2	Power Cable	1 piece
3	Certificate of qualification	1 piece

### Pollution Control Sign and Content Description



The symbol indicates that the product can be reused. The figure indicates the term of service of environmental protection. The product will not cause environmental pollution or affect human body and property within the term of service expressed by the figure since the date of manufacture as long as the safety and operating precautions on the product are obeyed.

### Name and Content of Toxic or Harmful Substance or Element in the Product

Name of Parts	Toxic or Harmful Substance or Element					
	Lead Pb)	Mercury Hg)	Cadmium Cd)	Hexavalent chromium Cr)6+	Polybrominated (PBB)	Biphenyls polyphenyls (PBDE)
Body/Box	○	○	○	○	○	○
Equipped Baseplate/ Electrical Part	×	○	○	○	○	○
Plastic Structural Member	○	○	○	○	○	○
Metallic Structural Member	○	○	○	×	○	○
Cable	○	○	○	○	○	○
Transformer	○	○	○	○	○	○
Transformer Loudspeaker/ Microphone	×	○	○	×	○	○

#### Marks:

“○” means the content of the hazardous toxic substance is lower than SJ/T11363-2006 standard required.

“×” means in a homogeneous material of the component the content of the hazardous toxic substance is higher than SJ/T11363-2006 standard required.

Note: “×” as there are no substitutable substances under the existing technology

Thank you for using our audio products. With the philosophy of “high technology, high quality and high taste”, we make products with durable materials, exquisite technique, rigorous circuit & advanced technology and offer professional service!

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# Safety Warnings and Protective Measures

	<p><b>WARNING</b> ELECTRIC DANGER DO NOT OPEN</p>		<p>To reduce risk of electric shock, do not remove the outer cover (or rear panel).</p> <p>For maintenance, it should be carried out by qualified maintenance people.</p> <p>To avoid fire and electric shock hazards, do not get the unit wet or damp.</p> <p>Equipment safety standard : Class II</p>
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- 1 Read the protective measures: read all warning messages about protection and operation in the instructions carefully before using the equipment.
- 2 Follow instructions: please follow the instructions and do not violate the instructions.
- 3 Place the product on where manufacturer recommends: to avoid overturning, do not push too hard or suddenly stop when moving.
- 4 Keep away from water and moisture: do not place equipment near water such as bathtub, basin, sink, washing machine, etc. Do not use equipment at high temperatures or high humidity environment, such as a damp basement.
- 5 Cleaning: do not use liquid or mist cleaners. Please use dry cloth to clean. Turn off the machine and power off before cleaning the equipment.
- 6 Power supply: use the power supply according to marks and tags. Connect and place the wires properly. Do not step on wires to avoid damage. Pay special attention to wires to plugs, receptacles and connecting ports.
- 7 Ventilation: the cabinet of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating and do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc.
- 8 Keep away from heat: do not put that machine near heat sources, such as radiators, stoves and other objects that generate heat (including power amplifiers).
- 9 Prevent unknown objects or liquids - objects or liquids should be prevented from falling through the holes into the equipment, because it might contact with current or live parts that might cause fire or electric shock. Do not place the equipment in rain or water splashing place. Do not put water containers such as vases on top of it.
- 10 Please connect well all input/output wires before switching on.
- 11 Thunder and lightning: unplug the power cable in thunder and lightning weather because it can effectively prevent lightning impulses to protect the equipment.
- 12 Protections: unplug the machine when you do not use it for long period. Good grounding can prevent the machine from being damaged.

- 13 Maintenance: do not open the cabinet without professional instruction to avoid electric shock. Contact with the product managers where you buy this machine in the following cases:
- a) Unknown parts or liquid enter the machine.
  - b) The machine is soaked.
  - c) The machine works abnormally.
  - d) Machine falling or damage.

- 14 Battery: for environment protection, please dispose batteries in appropriate ways.

- 15 Disconnection device of main power supply: this machine uses power plug and coupler as the disconnecting devices. Power plug and coupler should be easily operated.

- 16 This product is only suitable for safe use in altitude below 2000m.



- 17 This product is not suitable to be used in tropical climates.

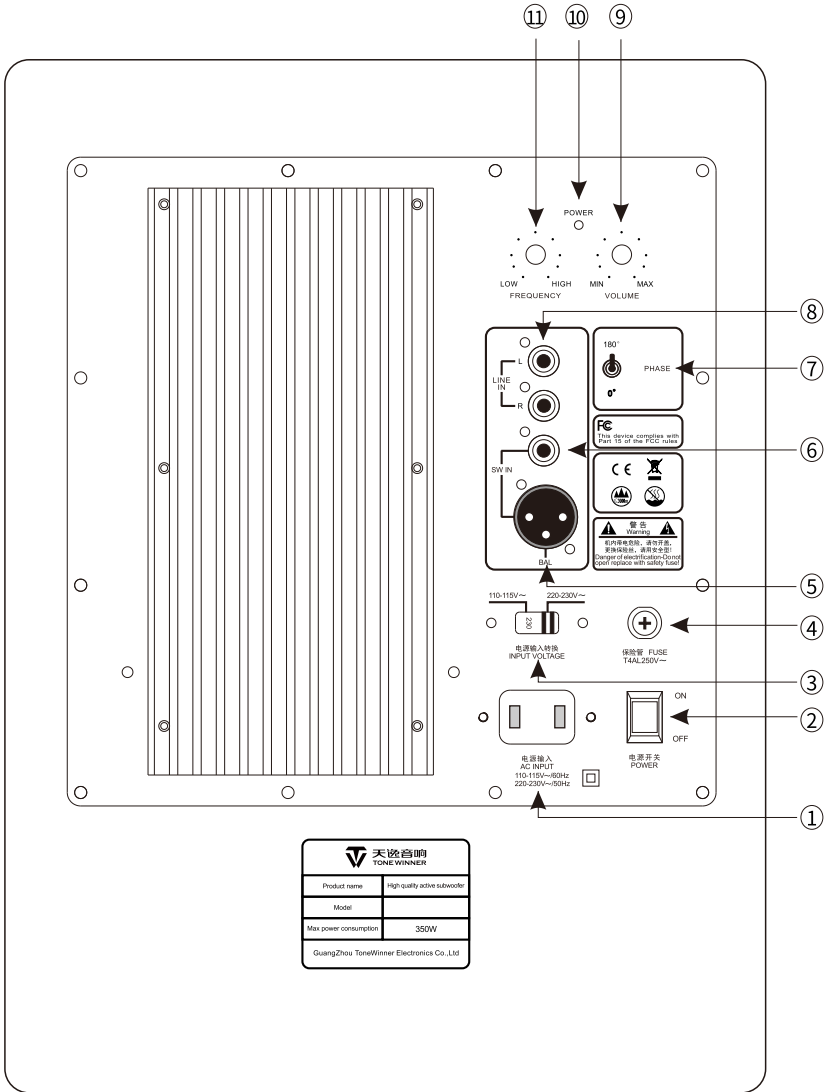


- 18 When the power switch of subwoofer is in the OFF position, it will stop working, but it is not completely disconnected from the power supply. When professional maintenance personnel need to open the cover for maintenance, be sure to remove the power cable from the power socket.

## Main Features

- Support low frequency range adjustment
- Support 0/180° phase switch
- Built in low frequency filter, support L/R full frequency signal input
- Support RCA and full balance ultra bass signal input
- Power supply: 110-115V~(60Hz)/220-230V~(50Hz) switchable
- Adopt enthusiastic analog amplifier circuit and high quality toroidal transformer
- Tonewinner' exclusive amplifier protecting circuits, such as over voltage, over load and over heat protection etc.
- Long stroke, strong magnet and high power 10 inch ultra bass speaker driver
- Colour black high quality MDF cabinet

# Rear Panel





**1 Power cord socket**

Connect to conventional AC power supply. Make sure power voltage matches power supply voltage to avoid damage.

**2 Power switch "POWER"**

Press " ON " to connect power and " OFF " to cut off power. Please make sure the main power is cut off when you plug or unplug power cable. When power supply is connected, subwoofer will go into working status.

(In order to achieve the best listening effect, when you use the subwoofer, suggest to keep it in power ON mode. And please cut off the main power if subwoofer is not use for a long time.)

**3 Power supply voltage switch (110-115V/220-230V)**

Switch the power supply voltage input based on your power grid voltage:

Set to "230" for 220-230V~/50Hz power grid voltage;

Set to "115" for 110-115V~/60Hz power grid voltage.

**4 Fuse**

If you need to replace fuse, choose part number of T4AL 250V.

**5 SW balance signal input port**

When your front-end device only have a balanced output or when you need balance input signal, use a dedicated balance input/output cable to connect the front-end device.

Ensure wiring matches on both ends: Pin1: SIGNAL GND; Pin2: SIGNAL+; Pin3: SIGNAL-.

**6 SW un-balance signal input port**

For ultra bass RCA unbalanced signal input.

**7 PHASE switch**

For switching phase of ultra bass speakers to get best sound effect.

**8 LINE IN**

Subwoofer LINE IN adopt RCA jack, which can use audio signal from the front-end amplifier, TV or stereo decoder. If you have only 1 subwoofer output, connect it to the single jack of SW IN.

**9 VOLUME adjustment**

Rotate clockwise will increase volume, conversely it will decrease volume.

**10 POWER indicator**

When the subwoofer connect with power supply, the amplifier is in standby status, LED is red.

About 5 seconds later, amplifier will go to working status automatically, and LED is blue. When subwoofer do not work correctly, LED blink red.

**11 FREQUENCY adjustment**

Rotate clockwise to the end, amplifier will output signal of 21~240Hz. Rotate anti-clockwise to the end, amplifier will output signal of 21~80Hz

## Subwoofer connections

Different ways to connect with your multichannel amplifiers and receivers etc.

If your CD player, amplifier, pre-amplifier or multichannel processor have co-responding LINE OUT port, use the subwoofer LINE IN port for signal input. If your equipment have balance input port, use the subwoofer balance input port for signal input.

**Caution! Make sure all signal connections are well connected before turn on the subwoofer.**

### Input signal by LINE IN

If your front-end equipment have RCA ultra bass signal output (SW/LFE etc.), connect it to subwoofer SW IN port by a RCA signal cable.

If your front-end equipment do NOT have ultra bass signal output, connect the L/R signal to subwoofer SW IN port by 2 RCA cables.

### Input signal by BLANCE

If your front-end equipment only have BAL output, or you want to input signal from BAL port, connect the signal to the BAL port on subwoofer by an appropriate balance cable.

Note: make sure the connecting ports of front-end equipment are match with the ports on subwoofer.

PIN1: SIGNAL GND; PIN2: SIGNAL+; PIN1: SIGNAL- .

## Subwoofer tests

First, turn on your AV system, set the AV system to the correct working mode, make sure the ports connected to the subwoofer all have signal output. Then turn on the power switch of the subwoofer, switch the phase to the "0" position (factory settings). Then turn the volume to about half.

Play a piece of music that you are familiar with and it should have rich low frequencies, then you should should hear the bass playing from the subwoofer.

You can also test subwoofer same as the test functions of DVD players, home theater amplifiers, pre-amplifiers, or surround audio decoders. This function inputs the noise signal to each channel of speakers in the AV system. Besides, it can be used to balance and calibrate the volume of each channel speaker, including subwoofer.

Note: The subwoofer only responds to the bass signal it receives. Please note these signals do not contain any bass, such as character dialogue, violin playing, quiet scenes, etc..

# Subwoofer adjustments

After completing the system test, perform the following steps to achieve the best sound effect. As you go through each step, listen carefully and compare the sound changes (especially the bass part). Play a familiar song/music, which has rich low frequency and strong rhythm, then do the following steps:

## **Position adjustment**

Place the subwoofer in a normal listening position (such as sofa), turn the volume to about half, and then walk around the room. If the bass heard at one point where is significantly stronger, then the subwoofer should be placed in that position. Usually there are more than one such place, choose a place that is convenient to connect and use.

## **Volume adjustment**

Adjust the volume to make the sound of subwoofer integrated with the sound of main speakers. Subwoofer is designed to make up for the lack of bass in your existing AV system, but not to suppress their own performance. The sound of subwoofer should be integrated with the sound of the entire system output.

## **Volume adjustment**

1. Adjust the phase 0/180 repeatedly, listen carefully in the normal listening position, compare the bass frequency performance, and compare more significantly enhanced.
2. Put the phase adjustment in the position where the low frequency performance is the best.
3. Sometimes when switching 0/180, there is almost no difference in low frequency hearing, then put the knob in the "0" position.
4. If you replace the front speaker, or change the position of the front speaker or subwoofer, you need to do phase adjustment again.

## **Frequency regulation**

Adjusted the low pass frequency range repeatedly, to make the bass of the entire system smooth and integrated.

# Specifications

**Driver:** 10"x1

**Frequency response:** 21-240Hz

**Amplifier power:** 200W(4Ω,RMS,THD<3%)

**Peak power:** 1000W

**Power supply:** 110-115V~(60Hz)/220-230V~(50Hz) switchable

**Subwoofer size:** 360 x 432 x 432 mm (W x H x D)

**N.W:** 19kg/pc

**G.W:** 21kg/pc

**Standards:** GB4943.1,GB/T9254.1,GB17625.1

(Note: The specification may be changed slightly without further notice.)

## Equipment Safety Standard: Class II

- 1 Please read the manual and safety precautions carefully before using.
- 2 The product should be mounted somewhere ventilated and dry for the convenience of heat dissipation to avoid moisture and lampblack.
- 3 The safety standard of the machine is Class II; upon installation, the power plug should be connected to 110-115V~/60Hz or 220-230V~/50Hz grid.
- 4 Do not remove the cover during using to prevent electrocution.
- 5 Do not frequently turn it on or off. Wait a few minutes before turning it on again.
- 6 When the equipment fails, contact with the product managers where you buy this machine for internal maintenance. To avoid accident, do not open the rear cover for inspection or repair.
- 7 The plugs, power lines, fuses, power switch, and transformer used on the equipment are all safety parts. Upon change of safety parts, the maintenance department should replace them in accordance with the model and specification specified by our company.



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