



TONE WINNER

SUB-10-N Active 10 inch subwoofer User Manual



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- (b). Set the knob to the place of the best low-frequency performance.
- (c). Sometimes the low-frequency hearing is almost the same when the knob is rotated. In this case, set the knob to “0”.
- (d). If you have replaced the front speaker, which drastically changed the location of the front speaker or subwoofer, the phase adjustment is required again.

4. Frequency Adjustment:

Repeatedly rotate the frequency adjustment knob. When the bass cohesion of the whole system is smooth and integrated, the frequency of the subwoofer is done.

5. Appropriate adjustment again:

Because there will be a relationship between the position, sound phase and frequency of the subwoofer, adjusting one of them may affect the other two, so repeat steps 3 and 4.

After completing all the above steps, the effect of your entire home theater has been adjusted to the best.

Trouble shooting

Phenomenon	Cause	Solution
No sound	Not connected to power or the power switch is off	Connect to power supply and turn the power switch on
	Volume knob in the minimum position	Volume up
	No low-frequency signal input	Check system wiring and equipment setting
Bass Distortion	Subwoofer amplifier output reached limit	Turn down super bass or system volume
	Subwoofer amplifier frequency range is too wide	Narrow the frequency range
Large Dynamic Distortion or Abnormal Sound	Large dynamic sound (such as explosion) causes the subwoofer overload	Properly turn down the volume of the subwoofer or home theater system
Buzz or Hum	Wiring problem or system earthing problem	Refer to the home theater system manual

Specification

1. Frequency Range: 30Hz-250Hz
2. Minimum Source EMF: ≤700mv RMS
3. SNR: ≥80dB (A-weighted)
4. Power Supply: ~220V/50Hz
5. Total Power Consumption: ≤200W
6. Net Weight: 20Kg
7. Dimensions (mm): Width 380 x Height 430 x Depth 380

2. Input signal from high level input terminal:

Use a speaker cable to connect the high-level input of the subwoofer to the speaker output of the power amplifier or the input terminal of the main speaker.

Make sure that the left channel is connected to the L port, the right channel is connected to the R port, and the polarity is correct (+ to +, - to -).

3. After the connection is completed and confirmed correctly, you can connect the power cord to the power outlet.

Subwoofer Testing

To begin with, turn on your home theater system and set it to the correct mode to make sure the interface connected to the subwoofer has signal output. Turn on the subwoofer and set the phase switch to "0" (factory setting). Rotate the volume knob and the frequency regulating knob to about 1/3 position.

Play a song you prefer, and you should be able to hear the bass from the subwoofer.

You can also test the subwoofer with test function from DVD player, home theater amplifier, pre-amplifier, or surround sound decoder. The test function input noise signal into every speaker of each channel in the home theater system, and meanwhile it can balance and calibrate the volume of speaker in every channels (including subwoofer).

Remark: The subwoofer only reacts to the bass signal received. For some cases such as dialog, violin, and some quite scenes which don't contain bass signal, thus the subwoofer will not have output.

Subwoofer Adjustment

After the system test is finished, the following tasks should be performed for the best audio effect. During each step, please listen carefully and compare between the changes of tone (especially the bass).

Play a song or music which is with powerful low frequency, and strong rhythm, and perform the following steps:

1. Location Adjustment:

Place the subwoofer on a normal location for listening (such as the couch), adjust the volume to 1/3, and move about the house. If the bass heard from a certain place is apparently stronger, the subwoofer should be put there. Usually, there are more than one places like this. Please choose the place which is most convenient for connection and use.

2. Volume Adjustment:

Adjust the volume is for finely blending the sound from the subwoofer with the sound from the main speakers. The subwoofer is designed to cover up the bass shortage of your existing home theater system instead of suppressing their performance. The sound from the subwoofer should be integrated with the sound from the whole system.

3. Phase Adjustment:

(a). Repeatedly rotate the phase potentiometer knob, and listen carefully in the normal listening location. Compare between the performances of low frequency in any places of the knob to see which is more sturdy and powerful and apparently enhanced.

Important protective measures for attention



WARNING
ELECTRIC DANGER DO NOT OPEN



- To reduce risk of electric shock, do not remove the outer cover (or back panel).
- For maintenance, it should be carried out by qualified maintenance people.
- To avoid fire and electric shock hazards, do not get the unit wet or damp.
- Safety protection category: Class I

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 protect equipments overturning, do not use force to push 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 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 clean the equipment.

6. Power supply: use the power supply according to indication. Should have reasonable wirings, to avoid damage, do not step. Pay special attention to powerplugs, receptacles and connection wirings.

7. Ventilation: the chassis of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating, do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc. Newspapers, tablecloths, curtains, and other objects may block venting holes. Do not put the equipment close to window curtains. If it is built-in installation, such as bookcase or rack, make sure enough venting. Keep a distance of 10cm (4") on left, right, top and rear sides. Equipment bracket or rear of top cover should have a distance of 10 cm (4 ") to rear panel or the wall, to keep venting space.

8. Heat - to keep products away from heat sources, such as heatsinks, stoves, 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 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 into water containers, such as vases.

10. Please connect well all input/output wires before power on.

11. Thunder and lightning: unplug the power cable in thunder and lightning weather, it can effectively prevent lightning impulses to protect the equipment.

12. Protections: ① Unplug the power supply when you do not use the manual for long period. Plug. ② Good grounding can prevent the machine from being damaged.

13. Maintenance: do not open the equipment chassis to avoid electric shock. Please send the machine to our local designated maintenance house if you meet below circumstances and need maintenance.
a) Unknown parts or liquid enter the machine.
b) The equipment was soaked.
c) Abnormal machine operation.
d) Machine falling or machine damage.

14. Battery: for environmental protection, do not discard the waste electricity optionally.

15. Disconnection device of main power supply: this machine use 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 only suitable for use in tropical climates



Thank you for choosing Tonewinner brand audio products. We will serve you with "High technology, High quality and High taste" enterprise philosophy, will serve you with exquisite craft, classical circuit, high technologies, first-class quality and first-class services. We will bring all customers with our stable, reliable, durable and pleasant technology achievements!

Product introduction

Thank you for purchasing the Tonewinner's 10 inch active subwoofer. With this high-quality subwoofer, your home theater system will have unprecedented performance.

The subwoofer combines a powerful subwoofer dedicated power amplifier and a 10 inch subwoofer together perfectly. This system is specially designed to complete your home theater system. It is easy to use, high power, low frequency and powerful, and has a strong shock power. The amplifier is designed with phase switching, line input, high level input, EQ adjustment and frequency adjustments.

Amplifier Introduction (See Figure 1)

HILEVEL IN: High level input. When the home theater equipment has no audio signal line output, use this group of ports to input the signal to the subwoofer.

LINE IN: Line level input. Used to input signal from the line output of home theater equipment -

POWER: Power indicator. When the power is turned on, the indicator light is red; the amplifier will automatically switch to the working state in about 5 seconds, and the indicator light turns to blue.

PHASE: Phase switch. Used to switch the phase of the sound played by the subwoofer for optimal listening.

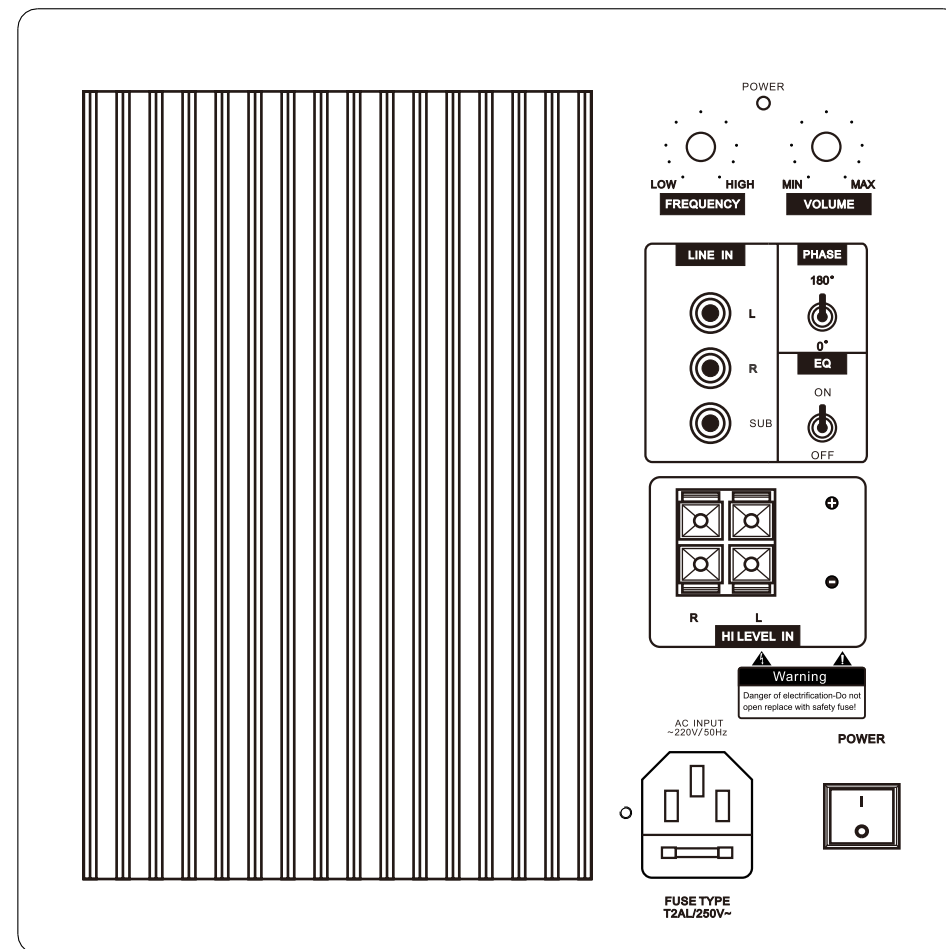
VOLUME: Volume Adjustment Knob. Rotate clockwise to increase the volume, and vice versa to decrease the volume.

FREQUENGY: frequency range adjustment knob. Turn it clockwise to the end, the amplifier outputs a signal at 30~250 Hz, and turn it counterclockwise to the end, the amplifier outputs at signal at 30 to 80 Hz.

EQ: EQ adjustment switch. Controls the boost of the 50 Hz frequency point: When the switch is ON, there is an additional boost (about 4dB) around 50 Hz to especially enhance the low frequency effect.

POWER SWITCH: used to turn on or off the AC power of the whole machine.

Fig. 1 Schematic Diagram of SUB-10-N Amplifier



Connection of the subwoofer

If your CD player, home theater amplifier, preamp, or surround decoder has a corresponding line output, use the subwoofer line input to input the signal. if there is not. Just use the high level input.
1. Input signal from line input:

Use the audio signal cable to connect the line input of the subwoofer. If your home theater equipment has two SW outputs, connect the signal cable to the L and R ports on the amplifier rear panel. If it is a one way signal, connect the signal line to the SUB port on the back panel of the amplifier.