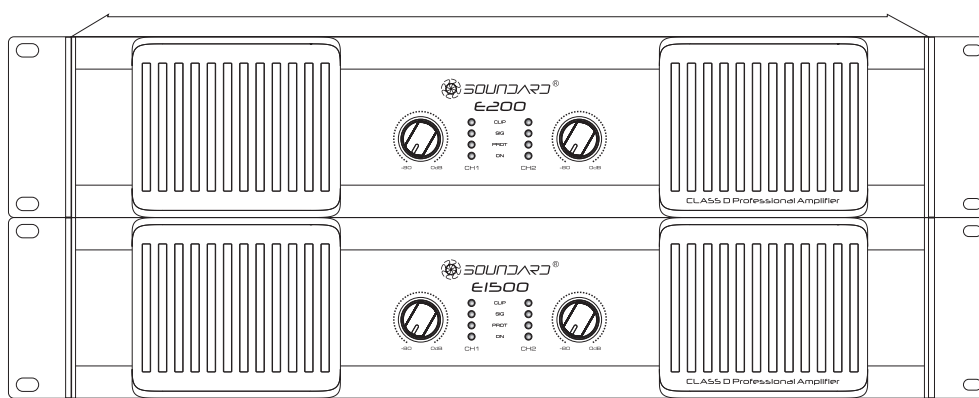


# E Series



## E200/E400/E600/E800/E1000/E1500









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## Important Safety Notice

1. Read the rules, pay attention to all warnings, and comply with these rules.
2. It is forbidden to spray liquid around the product. Please do not place the liquid container above the product, such as vases, etc. The dry cloth and air pressure gun can be used for cleaning.
3. Be careful not to form a hot air circulation. Please install as the recommended way.
4. Do not install the product near the heat source, and try to keep the environment temperature below 35°C.
5. ⚡ Ground protection, when connect to power supply, corresponding ground protection measurements should be taken.
6. Please protect the power cord from treading and squeezing, especially the plug, power socket and connected devices.  
Warning: Power plug/Equipment coupler, as a circuit cutting off device, should be kept available at any time.
7. Must be in accordance with the following sequence switch to use the product: Turn on: Pre-Amp ~ Amplifier;  
Turn off: Amplifier ~ Pre-Amp.
8. Before power on, must ensure that the power supply voltage in accordance with the requirement of the product.
9. If input signal parallel with more than three power amplifiers, it is suggested to use signal distributor to make sure no distortion of the input signal.
10. Do not connect an output port of one channel into an input port of the other channel in the same amplifier. Do not connect an output port into an output port of another amplifier in series or parallel.
11. When configure an amplifier into a system, the output power of amplifier should be 50%-100% higher than the nominal power which is the same impedance with the loudspeaker. And be careful to use the bridge mode.
12. It is forbidden to connect an oscilloscope probe into an amplifier output interface in state of bridge when the amplifier is being maintained, to avoid amplifier or oscilloscope got broken.
13. Suggest: 1) Please use qualified NL4 SPEAKON connectors.  
2) Please make the appropriate power distribution when more than one amplifier working at the same time, to achieve qualified using environment.

## Safety instructions

	When stacking non-horizontally, the air outlet should be upward or be straight to the vent.		This product is suitable for safe use below altitudes 2000m.(Only for our company Switching Mode Power Supply equipments)
	Input/output connection cables can not be stacked on the air outlet of the product. They should be tied up on both sides of the amplifier.		This product is suitable for safe use of non tropical climate conditions.
	The ambient temperature should be lower than 35°C while running the amplifier		The materials which need to be technically recycled and can not be placed in the trash can.
	Please verify the temperature in the cabinet when the project is debugged, and should be kept below 35°C even though in the extreme conditions.		The lightning bolt triangle is used to alert the user To the risk of electric shock. Non-professional Qualified technicians do not open top or bottom covers for maintenance



**WARNING:** To reduce the risk of fire or electric Shock, do not expose this apparatus To rain or moisture.

Welcome

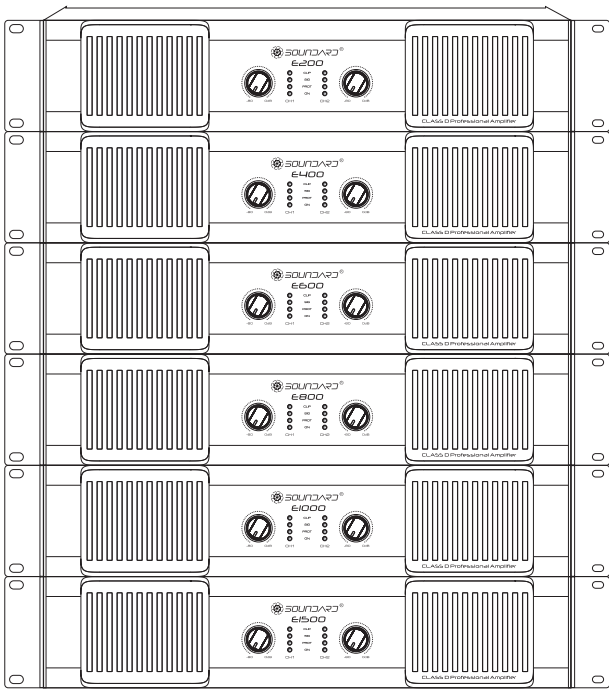
Thank you for purchasing our products. The E Series professional power amplifier, simple to operate, stable, high performance-cost rate. Special design for KARAOK ROOM, sound reinforcement, small performances, lectures and other places. Please take the time to study this manual so that you can obtain the best possible service from your amplifier.

Unpacking

Please unpack and inspect your amplifier for any damage that may have occurred during transit. Confirm the preset voltage of the power amplifier matches your local voltage rating ( Please refer to the print on the rear panel for detailed information). We also recommend that you save all packing materials so you will have them when need to return the power amplifier.

Important safety precautions

Our products has already taken the safe requirement in to consideration and all the finished products have been tested under the requirement of the government before sale. Due to the inner dangerous high voltage and electricity, we strongly recommend you read all instructions, warnings and cautions contained in this manual. It will increase the chance of getting shock by the electricity if the product falls down, recess in the appearance, soaked or there were some parts loose internal. If there are problems above, please turn off power immediately and send the defective units to local distributor for service.



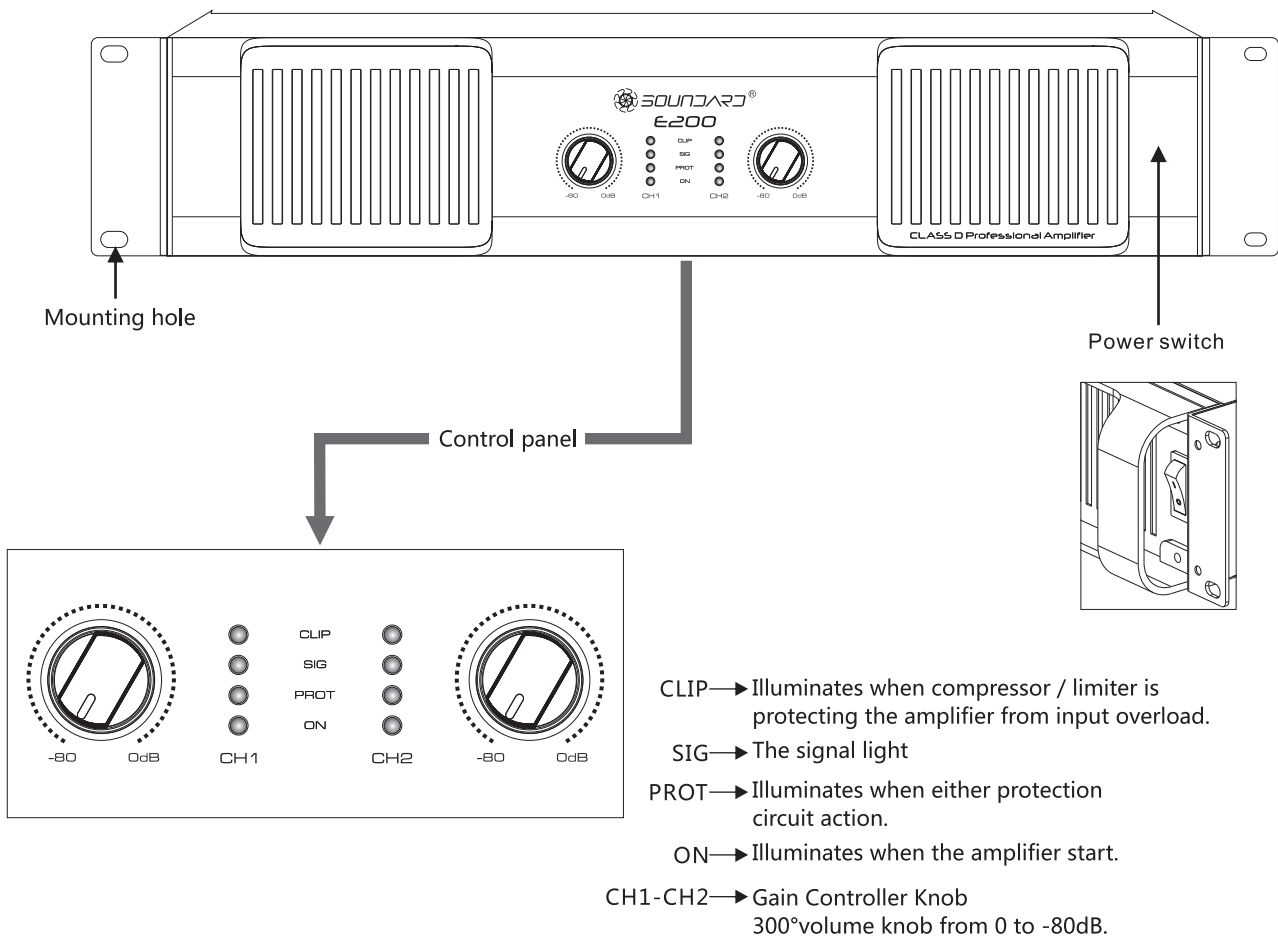
Power & Wiring distribution

Referring to the power dissipation and power supply/AC of different product for wiring We suggest the users to match not less than the following wiring size specifications, to obtain the better comprehensive properties.

**The Standard Voltage : 220V/240V ~**  
( Automatic voltage identification)

Model	Dissipation Power	Cable size
E200	280W	≥1.0mm <sup>2</sup>
E400	570W	≥1.0mm <sup>2</sup>
E600	860W	≥1.0mm <sup>2</sup>
E800	1150W	≥1.0mm <sup>2</sup>
E1000	1500W	≥2.0mm <sup>2</sup>
E1500	2600W	≥2.0mm <sup>2</sup>

## Front Panel



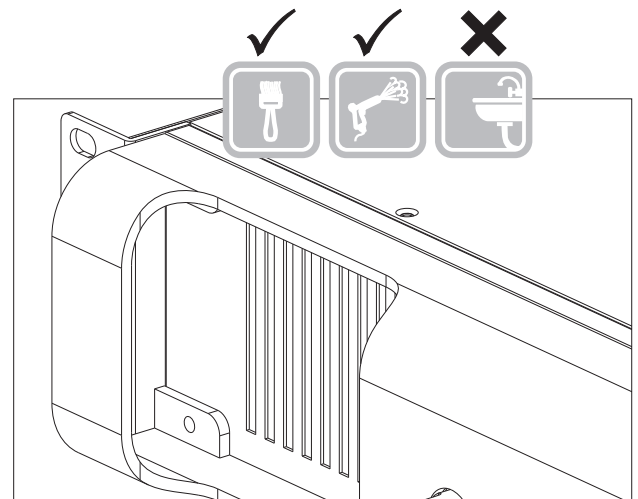
## Cleaning guide of the dust filter



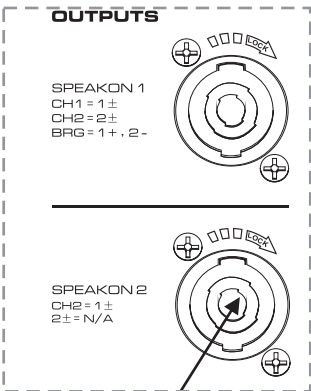
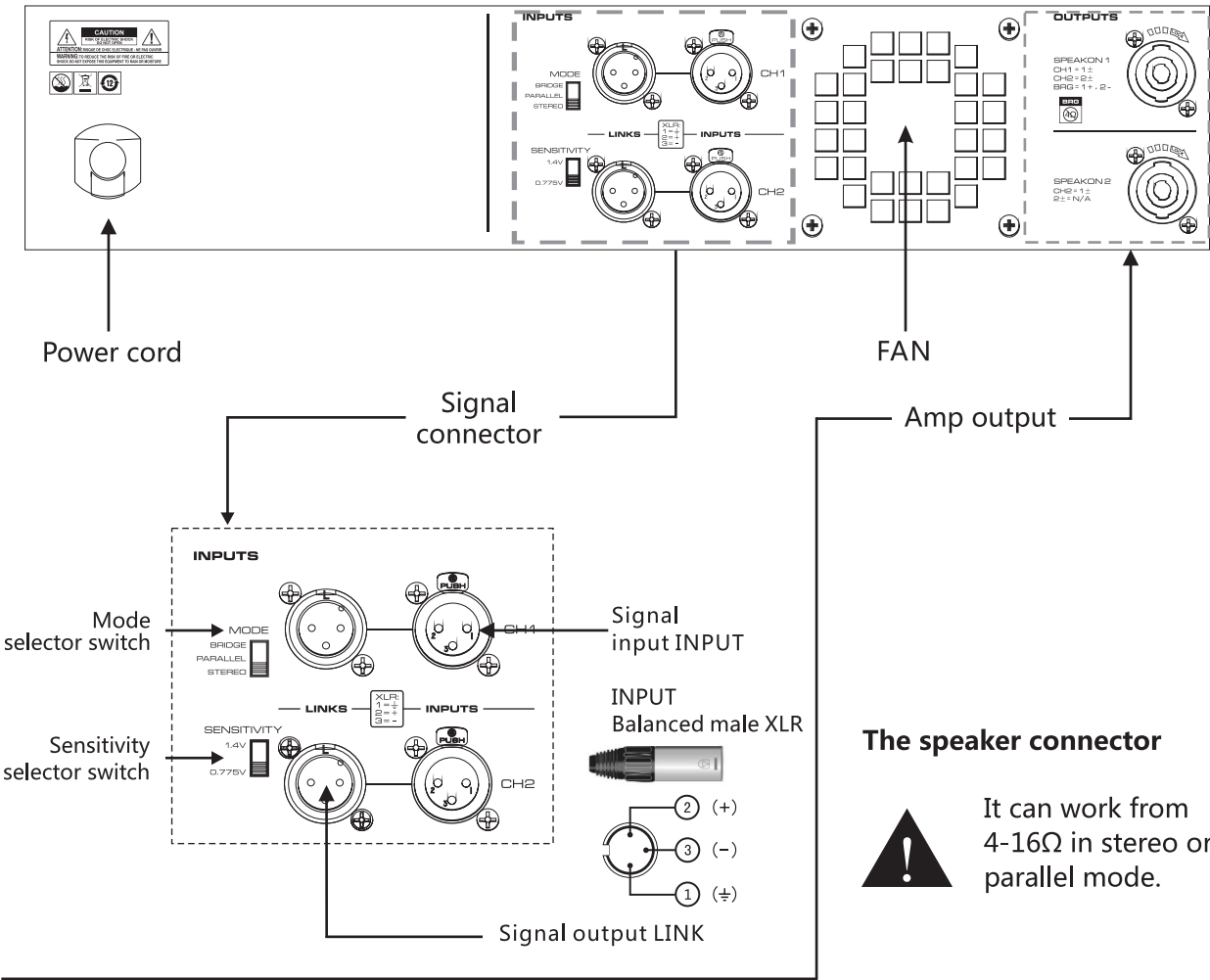
The first time cleaning of the strainer mesh should be right after installation. Recommend to clean the strainer mesh quarterly.

Please do not run the product without the dust filter, or it makes the service life of the product shorten.

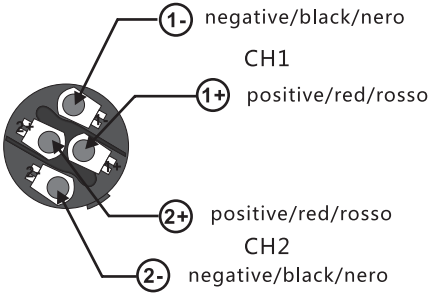
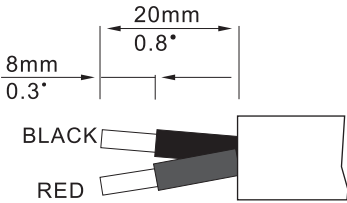
**Such condition will be considered as no warranty.**



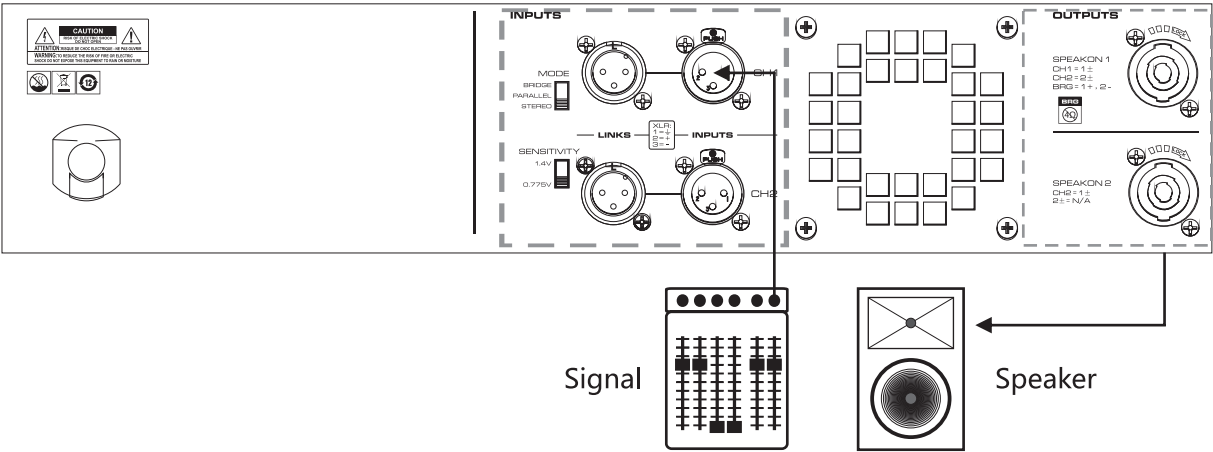
Rear Panel



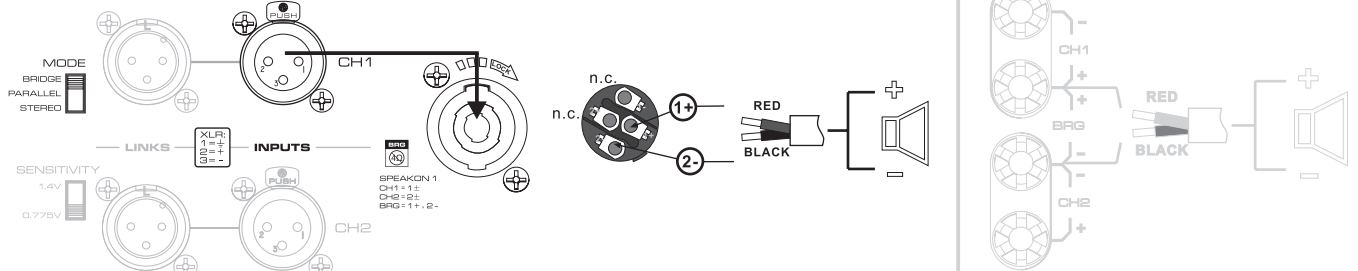
Speakon ( NL4 )



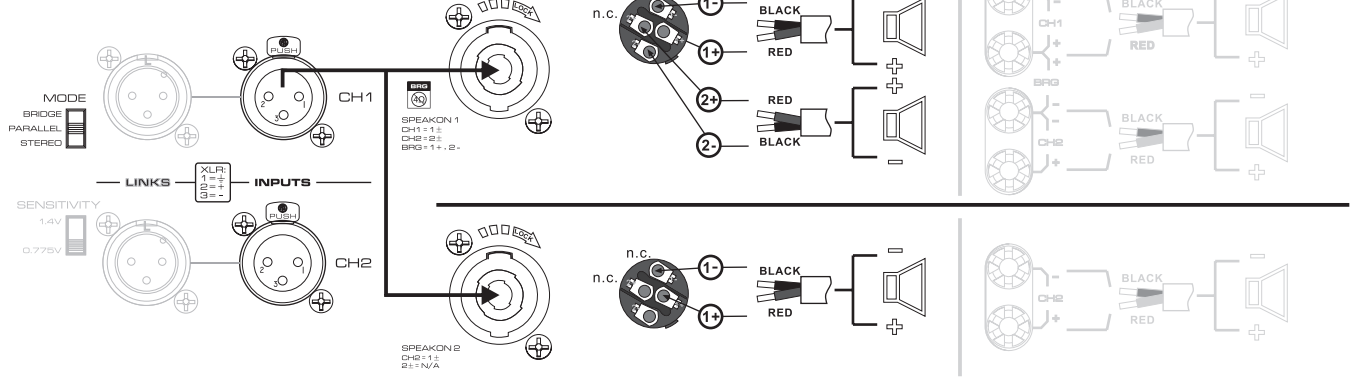
The quality of your soldering is very important  
Virtual welding or soldering errors, Would be likely to affect the normal Use or even failure



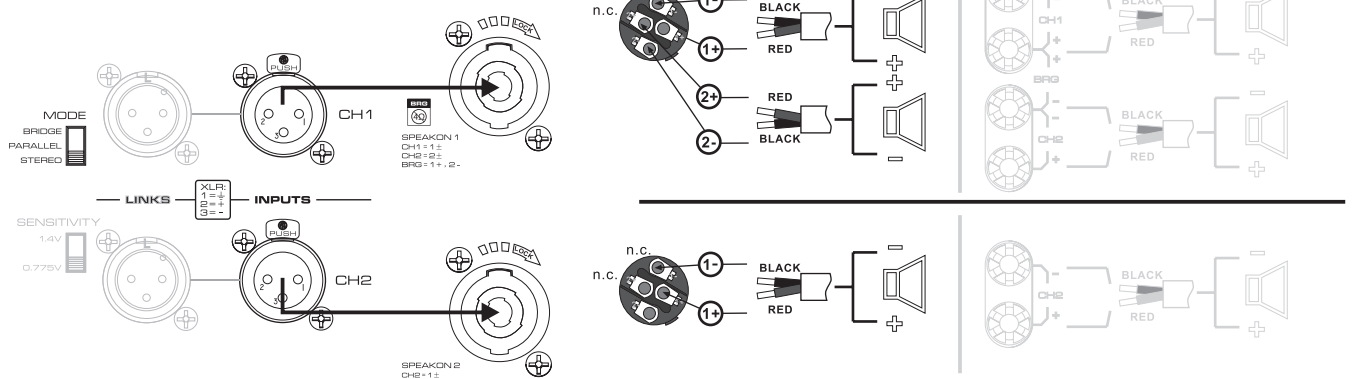
Bridge mode




Paraller mode



Stereo mode



Model	E200	E400	E600	E800	E1000	E1500
<b>Output power</b>						
8Ω stereo	200Wx2	400Wx2	600Wx2	800Wx2	1000Wx2	1500Wx2
4Ω stereo	300Wx2	450Wx2	800Wx2	1100Wx2	1400Wx2	2500Wx2
8Ω bridge	600W	900W	1600W	2200W	2800W	4800W
<b>Other Specifications</b>						
Frequency response	20Hz-20kHz (+0/-1.5dB)	20Hz-20KHz (+0/-1.5dB)	20Hz-20KHz (+0/-1.5dB)	20Hz-20KHz (+0/-1.5dB)	20Hz-20KHz (+0/-1.5dB)	20Hz-20KHz (+0/-1.8dB)
THD+N	≤0.1%					
S/N rate	≥85dB					
Input sensitivity	0.775/1.4V					
Input impedance(bal/unbal)	40kΩ/20kΩ					
Voltage gain (8 ohm )	34dB	37dB	39dB	40dB	41dB	43dB
Output circuitry	Class D					
Cooling	Air flow from front to rear					
Protection	Soft start, VHF, short circuit, over load, clip limit, over heat, over voltage10%(E400/E800), progressive volume					
	 E400/E600/E800/E1000/E1500: When the protection of this product because of short circuit / over load / (E800 over voltage) ,the circuit will be locked, and then must restart to unlock					

**Connection**

Input	Balance input XLR-F, Balance output XLR-M
Output	NL4 SPEAKON

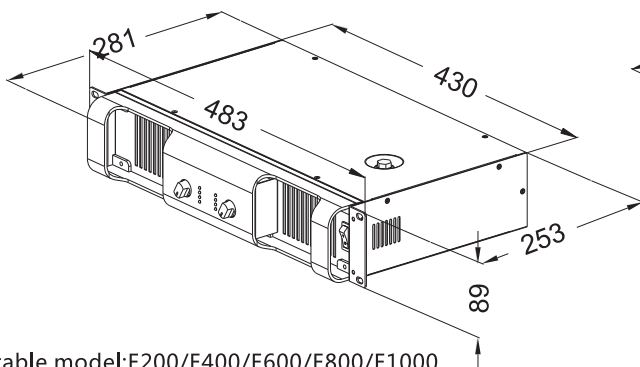
**Function**

Front panel	Front panel indicator: Working indicator Signal/Clip/Protection/Power on/ volume control knob
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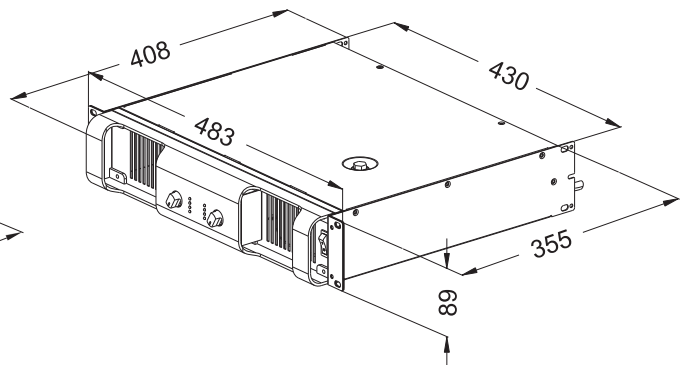
**Dimensions/Weight**

Product Dimension(mm)	483x254x89	483x254x89	483x254x89	483x254x89	483x254x89	483x419x89
Packaging Dimension(mm)	560x420x170	560x420x170	560x420x170	560x420x170	560x420x170	595x565x170
G.W.	9.1kg	10.3kg	11.4kg	11.8kg	12.1kg	20.3kg
Power Supply	1.0mm <sup>2</sup> power cord (220V/240V~ Automatic voltage identification)					1.5mm <sup>2</sup> power cord

Remark : 1. The power is tested under the condition of 20ms burst,1kHz sine wave and 1% THD

**Product dimension(mm)**

Suitable model:E200/E400/E600/E800/E1000



Suitable model:E1500

The manufacturer reserves the rights to make changes in specification without prior notice.  
The final specification is subject to the user's manual.



## After powered without any response

Measure the outlet with a multimeter to check if there is power available and when no multimeter, you can have a test pencil. If the power supply is normal and the amplifier still no response when powered then there is something wrong with the amplifier, need professional person to check it.

## No signal output

1. First check if the signal input is right.

⚠️ Check the connect of XLR, if the 2 and 3 reverted or the ground is reliable. Different circuitry design will have different connect way of the XLR, please follow the 2+、3- to soldering.

**It can not be judged by comparing with other amplifiers (including other amplifiers in the same factory).**

2. The signal light don't lights up

If all the signal input is fine and the signal light don't lights up then may the amplifier has failure, you need to ask the professional person to check it.

3. Signal input normal but no sound

The signal light will flash with the change of input Volume, but now sound out, then you can check the connect of speakon if it is connect good and the wires are connect right (some times the problem of the wires connect, check its  $\pm 1$  and  $\pm 2$  connect), after the check above if still no sound out, please change a speaker cable and check again. Because some times also caused by the bad quality of the Speakon connector problem of the amplifier.

⚠️ Through experiences, it may caused by the bad connection of some plugs and the socket.

## Output sound distortion

1. After check the signal and loudspeaker they are fine and still can hear distortion when small sound, then may the amplifier has failure, need professional person to check it.

2. Some frequency band has distortion

First, check if the loudspeaker already overload, normally judge it in 95~105dB for higher SPL we don't comment here. Here we just think about the failure recovery of the amplifier. If in the middle have some rupture sound and more smaller volume more obvious, then it should be crossover distortion of the amplifier and this kind of distortion is easy to confuse with the failure of loudspeaker itself. If the amplifier have problem then you should send back to the manufacture for repair.

3. Distortion is High SPL

If the sound is normal when small volume and then you need to check the limit SPL of the loudspeaker. You can listen it in suitable volume and if clip light works, then you need reduce the output. Both loudspeaker and amplifier have limit, you should use them in their limit if in very high SPL they have distortion you should take care of them and reduce the output to the right position.

## The protection light blinks

**When the PROT light works, the amplifier into the protection mode.**

1. Maybe the temperature is too high or output short or near short and they are not failure they can recovery after you can use it normally. But over heat will take more time to recovery. Also when over heat happened you should check the fan and the temperature of the install environment, if does you should solve the problem then can use amplifier. If you think the speaker was short, you can with a multimeter to check if the resist is lower than 2 ohm or 1 ohm with DC (Please calibrate the multimeter to measure for accuracy because of the small resistance).

2. If the PROT light always light up then it should be the problem of amplifier, you should send it back to professional person for repair.

## Hum in the system

1. Hum exists even when there is no signal

Please keep the amplifier away from earth wire of power supply cables, just connect the fire wire and zero wire, no ground wire. If the hum is still existing, it can be judged that there are some problems in the amplifier. Please get in touch with professionals.

2. Hum exists when the system is completely connected

This is caused by the different ground voltages in difference devices in the system, mainly happens when the power supply is under three-phase distribution condition, each device is connected to different phase. This is not caused by amplifier.

Solution experiences, just for reference

- Combing the electricity, the power distribution box using the same one for all if possible.
- Make sure the grounding wire potential is zero and force the different grounding wire to the same level, if the grounding wire itself charged, indicates that the wire may be connected with the zero line. Please solve this problem.
- If unavailable above, then only to disconnect the ground wires of all devices, which helps to reduce the AC. But this is not meet the safe use of electricity, users must know what will happen if to do in this way. We do not recommend the floating use.

## The amplifier is required maintenance in the condition below:

- If the amplifier smokes or smells burning.
- If the cabinet has severe indentation and deformation
- If the amplifier are dipped into the water
- If the internal components loosen
- If AC breaker skips out when current increases.



## Disclaimer

SAE Audio Co., Ltd. is not responsible for any damage of loudspeakers or other equipments caused by negligence or improper installation.

SAE Audio Co., Ltd. offers 2 years limited warranty for this product.

SAE Audio Co., Ltd. Guarantees that this product has no material defect during two years from the sales date; if the damage caused under the normal installation and operation, SAE Audio Co., Ltd. shall change the defective component and repair faulty product for free according to this Quality Guarantee Agreement. However, users must send the product to our factory or any authorized maintenance points or designated distributors, affording the re-paid freight, together with buying proof (including customer copy of product warranty card and payment receipt or invoice copy).

As per this Quality Guarantee Agreement, the returned product must be judged having manufacturing defect it self after our inspection. This agreement doesn't apply for products with damage caused by any wrong operation negligence, accident, inappropriate installation or products with no date code and sequence no or damaged ones beyond recognition.

SAE Audio Co., Ltd. shall not afford responsibility for any damage caused by accident or indirect factors. The agreement authorized you specific legal rights.

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