



VIBRATO
by NSR

NS 160

NS 380

Owner's Manual

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Do not use this apparatus near water.
4. Avoid spilling any liquid, water into this apparatus, clean only with dry cloth.
5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
6. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
7. Only use voltage and AC specified with proper socket.
8. Shield the cables and cords in case of electric leakage.
9. Only use attachments and accessories specified by the manufacturer.
10. Be careful when moving this apparatus.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. When this apparatus needs repair please contact the dealer. Do not open this apparatus without authorization, or else all losses caused will be at your own risk.
13. Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths, curtains and so on.
14. No naked flame sources, such as candles, should be placed on the apparatus.
15. This product must be terminated with a three-conductor AC mains power cord that includes an earth ground connection.

Warning !

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing.

Unpack and Place

Transport/Unpack

- This apparatus is a heavyweight machine. More than one persons are recommended to remove the device in case of unexpected physical hurt.

Unpack:

- Remove the top bubble shield. Two people on both sides lift the machine vertically and place it on a stable platform.
- check the machine if there is any scratch during the transport. If there is please contact your Vibrato™ dealer at your earliest convenience.
- Find the included suitcase in the package and make sure all the following items are included:
 - 1 Power amp
 - 1 three-conductor mains cable for NS 160, and 2 for NS 380.

If anything is missing, please contact your Vibrato™ dealer at your earliest convenience.

Place and Ventilation

- If you want place this apparatus on a rack, please make sure that it is ventilated well.
- Please make sure the apparatus is installed on a stable, level platform.
- This apparatus is suggested to place near the other audio components to shorten the cable as much as possible.
- This apparatus should be placed where is dry, ventilated without direct sunshine exposure.
- Do not block the ventilation openings with anything.
- Do not place the apparatus where is hot, moist, steamed and smoggy.
- This apparatus is not water-proof. Avoid any liquid spilling into the machine in case of electric shock.

Power and Warranty

Power Requirements

In the factory configuration, NS 160/NS380 are fit for 50Hz/220v alternative power. Please make sure that the voltage shown on the power label of the AC input connector on the back panel is consistent with the supply voltage before using.

If the connected AC voltage is not consistent, it may cause danger of fire or safety problems, and damage to the device. If you have any question about the voltage requirements or the regional voltage, please consult the local authorized dealer before connecting to the mains.

warning: please make sure that all the components of your audio system have stable connection to earth. Please do not use the “earth disconnecter”, for it damages the safety plug or grounding plug. Otherwise dangerous voltage will generate between components and may cause damage.

Note: NS 160/NS380 are capable of producing breathtaking sound at a high

power. But your power supply may be a marring factor for the sound due to your listening habits or the number of speakers and amplifiers in you audio system. In this case, you may install a dedicated AC circuit. If you have multiple AC circuits for power supply, please consult a qualified electrician to ensure all components operate with the same, stable and low-impedance earthing reference. Unplug Model One from the AC wall outlet during a lightning storm or when not in use for an extended period of time.

Warning: Before moving the device, please remove the plug from the AC power outlet and unplug the power cord from the back panel to ensure that the device is powered off.

Warranty Service

- Please send the warranty card to the following address within 15 days after your purchase : **Room 1103, Building 1,phase 6, Tian’an Nanhai Cyber Park, Jianping Road, Guicheng Street, Nanhai District, Foshan City, Guangdong Province, China. Zip code: 528200**
- Please keep your receipt marked

with date as warranty certificate.

- Please keep the package for future transport if your device needs necessary maintenance.

- You have a 3-year free warranty. Please read the warranty card for

more information.

Note: The voltage inside the machine is beyond safety standard. And the integrated circuit is quite complex. Please do not open the device at your own risk, or else you may lose your warranty.

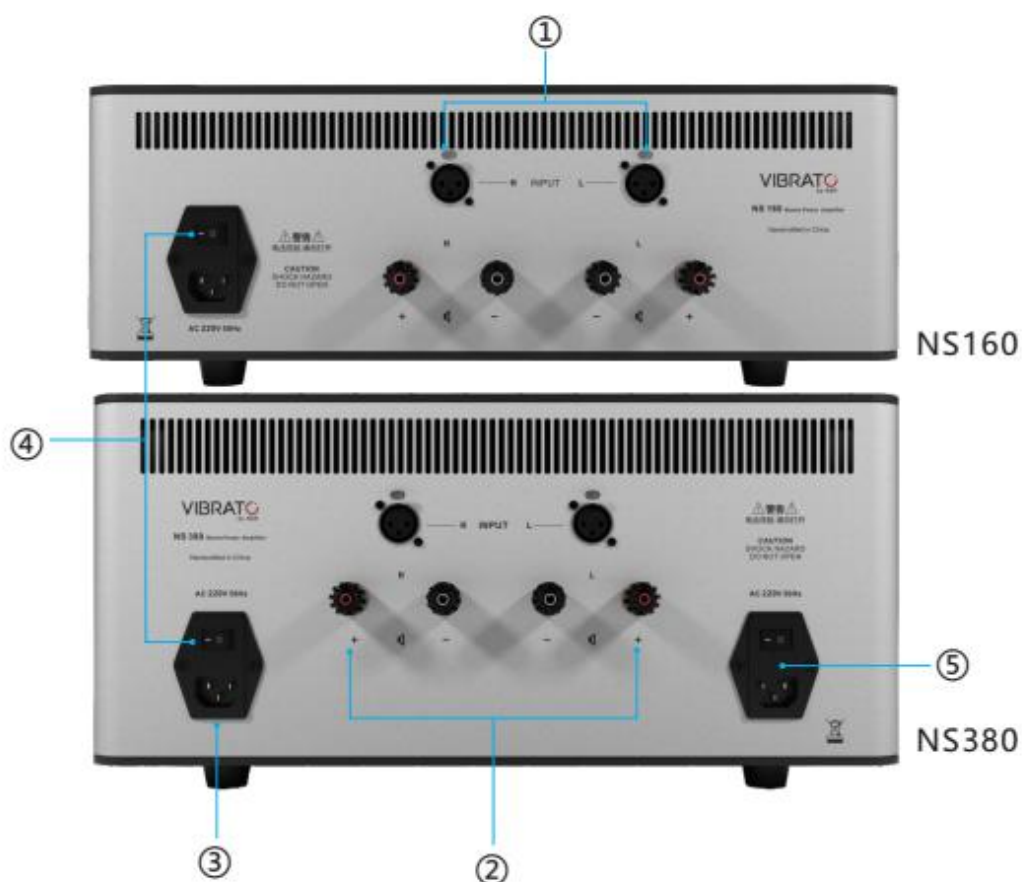
Front Panel



① Power SW: Press the power switch button to boot the apparatus. Press again, the apparatus goes into stand-by mode. In stand-by mode, the circuits and components inside need only low voltage to operate and the power consumption and heat generated are very little.

② Indicators: The indicators will be inactive in stand-by mode, and will remain active in operation.

Back Panel



① Pre amp input: Input the pre amp signal to this terminal via high-quality XLR signal wire. Please notice the right and left channel with the mark R(right channel) and the mark L(left channel).

Note: please do switch off the main power before connect / disconnect the signal wire.

② Speaker output: connect this terminal to the speaker via high-quality speaker cable. Please notice the “+” and “-” polarization and the left and right channels. The mark “+”=positive, “-”= negative, “R” = right channel, and “L” = left channel.

Note: please mind the right polarization, and the wrong polarization will damage the apparatus. And switch off the main power before

connect / disconnect the speaker cable.

③ Power input: input AC power into the apparatus via standard power cable.

Note: the nominal voltage of the apparatus is 220V/50Hz AC power, please make sure your wall socket meets the specifications.

④ Power Switch: “-” = switch on, “O” = switch off. When you flip the button to “-” position, the apparatus goes into stand-by mode.

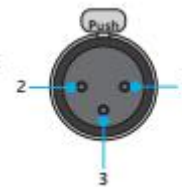
Note: the left and right power of NS380 are separate, and you have to switch on the power on both sides to ensure both the left and right channel operate at the same time.

⑤ Fuse box: if the fuse is melted down, you can open the fuse box and replace the melted fuse.

Note: Disconnect the main power before opening the fuse box.

XLR balance input plug pins

1. Earth pin
2. Signal + (positive phase)
3. Signal - (negative phase)



Connection

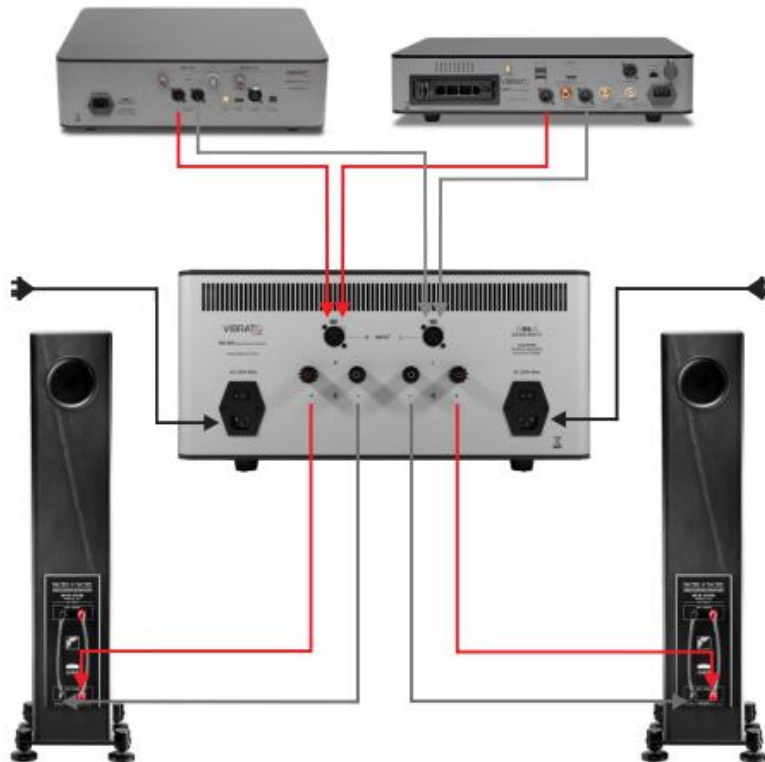
Please connect the apparatus according to the following procedure:

1. Use a XLR cable to connect the output of the pre-amplifier or media player to the input of the power amplifier.

Warnings: the NS series adopt full balanced circuit design and only balanced signal will be received. Any adapter will cause the full balanced circuit damaged or even transistors burned out. If you convert to single-ended input at your own risk, any damage caused to the power amp or other connected units will be **not** covered by the warranty.

2. Connect the speaker cable to the loudspeakers with the right polarization and left and right channel connection.
3. Connect the power cable to the main power socket.(220V/50Hz).

Note: Do not switch on the main power before all the components are well connected and keep the positive and negative poles of the speaker cable separate from each other.



Power on

If all the components are well connected, power on the device by flipping the power switches on both sides to the “-” position. Press the switch key on the front panel until the indicator remains on.

Power off

Please first turn down the volume of the pre amp, and press the switch key to turn off the indicator, then power off the device.

Note: in the audio system, the “power on” procedure is source- pre amp- power amp, while the “power off” procedure is opposite. Please do turn down the volume first no matter in “power on” or “power off” procedure in case of any damage to the loudspeakers.

Troubleshooting

The following faults may be caused by wrong connection or operation, please check according to the specified procedures:

Switch failure

1. Check if the power plug is well connected to the socket or if the charge connector gets loose.

Solution: make sure the power plug or charge connector well connected to socket.

2. The fuse may be melted down.

Solution: unplug the power cable, and use a “—”-shaped screw driver to open the fuse box and check if the fuse is melted. If it is melted please check if the speaker cable “+” and “-” contact. If not replace the melted fuse with a new fuse of the same specifications.

No sound

1. Check if the pre amp and source are operating normally.

Solution: connect another power amp to see if the pre amp and source are operating normally.

2. Check if the signal cable and speaker cable are well connected.

Solution: unplug the signal cable and plug it again until you hear “click” sound. Check if the power amp and loudspeaker binding posts connecting the speaker cable are well connected.

3. Check if the loudspeakers are operating normally.

Solution: connect another power amp to check if the loudspeakers are operating normally.

Warnings: All the checks above can be done only when the main power is switched off.

Parameters

NS160

Output power: 100W RMS / channel@8; 160 W RMS / channel@4 ohms

Effective bandwidth: 650 kHz-3 dB (power amp)

Slew rate:85v / uSec

Damping factor:> 800@ 100Hz, 8ohms

Frequency response: 20Hz-20kHz \pm 0.1dB; 3Hz-650kHz -3dB

THD+N: <0.03% @ 1khz/20khz,100W,8ohms;

Audio input: 1pair of XLR balanced terminal

Audio output: 2 pairs of WBT gold-plated binding posts

Dimensions (WHD): 450x170x475mm

Weight: 25kg

NS 380

Output power: 200W RMS / channel @8ohms; 380W RMS/channel @4ohms

Effective bandwidth: 650kHz-3dB(power amp)

Slew rate: 85v /uSec

Damping factor: >800@100Hz,8 Ω

Frequency response: 20Hz-20kHz \pm 0.1dB; 3Hz-650kHz -3dB

THD+N: <0.03% @ 1khz/20khz,200W,8 Ω ;

Audio input: 1pair of XLR balanced terminal

Audio output: 2 pairs of WBT gold-plated binding posts

Dimensions (WHD): 450x220x475mm

Weight: 38kg