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Lanzar®

VIBE442N - VIBE452N - VIBE452N.6
VIBE1100N - VIBE1400N - VIBE2102N

Amplifiers

USER GUIDE

You've made a great choice with the Lanzar Vibe amplifier—a quality product designed and engineered to provide many years of uncompromised musical service. Vibe amplifiers feature the latest technology, including a DC to DC Switching Power Supply, offering the headroom needed for the most demanding peaks and dynamic ranges in modern CDs and recordings.

TABLE OF CONTENTS

PLEASE READ THIS USER MANUAL COMPLETELY BEFORE OPERATING THIS UNIT AND RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

California Prop 65 Warning

⚠WARNING:

This product may expose you to chemicals, which is known to the state of California to cause cancer, birth defects and other reproductive harm. Do not ingest.

For more info go to: www.P65warnings.ca.gov

FEATURES:

- **MOSFET Switches:** Maintain rated power over a wide range of battery voltages.
- Regulated PWM Power Supplies: Stiffly regulated for consistent performance.
- 2-Ohm Stable Stereo Operation
- Variable Input Level Controls: For each pair of channels.
- High and Low Pass Crossover Controls
- Thermal and Speaker Short Protection Circuits
- Power and Protection LED Indicators
- Bass Boost Circuitry
- Compatibility: Stereo, Bridge Mode, and Tri-Mode System applications.
- Silver-Plated Power, RCA, and Speaker Connectors
- High-Efficiency Heavy Aluminum Heatsink
- Bass Boost Remote Control

TECHNICAL SPECS

MODEL	VIBE1100N Mono Channel Amplifier	VIBE1400N Mono Channel Amplifier	VIBE2102N 2 Channel Amplifier	VIBE442N 4 Channel Amplifier	VIBE452N 4 Channel Amplifier	VIBE452N.6 4 Channel Amplifier
RMS at 4 Ohms	1x800W	1x1000W	2x1500W	4x625W	4x1250W	4x1250W
MAX at 4 Ohms	N/A	N/A	2x3000W	4x1250W	4x1500W	4x1500W
at 4 Ohms Bridged	N/A	N/A	1x6000W	2x2500W	2x3000W	2x3000W
RMS at 2 Ohms	1x1600W	1x2000W	2x2400W	4x1000W	4x2000W	4x2000W
Min. Speaker Impedance	2 Ohm	2 Ohm	2 Ohm	2 Ohm	2 Ohm	2 Ohm
T.H.D.	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
Frequency Response	15Hz-150Hz,-1dB	15Hz-150Hz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB
Input Sensitivity	200mV-9000mV	200mV-9000mV	200mV-6000mV	200mV-6000mV	200mV-6000mV	200mV-6000mV
Input Impedance	20 k Ohm	20 k Ohm	20 k Ohm	20 k Ohm	20 k Ohm	20 k Ohm
S/N Ratio	>95dB	>95dB	>95dB	>95dB	>95dB	>95dB
Channel Separation	N/A	N/A	>60dB	>60dB	>60dB	>60dB
Crossover Filters Low Pass High Pass Band Pass	35Hz-250Hz N/A N/A	35Hz-250Hz N/A N/A	40Hz-350Hz 40Hz-3kHz N/A	40Hz-350Hz 40Hz-3kHz N/A	40Hz-350Hz 40Hz-3kHz N/A	40Hz-350Hz 40Hz-3kHz N/A
Bass Boost	+10dB	+10dB	+18dB	+18dB	+18dB	+18dB
Dimensions (In.)	10.25x2.36x7.87	10.25x2.36x9.45	10.25x2.36x24.41	10.25x2.36x18.90	10.25x2.36x20.47	10.25x2.36x20.47
Fuse(s)	10Ax2	15Ax2	30Ax4	40Ax2	35Ax3	35Ax3

PRECAUTIONS

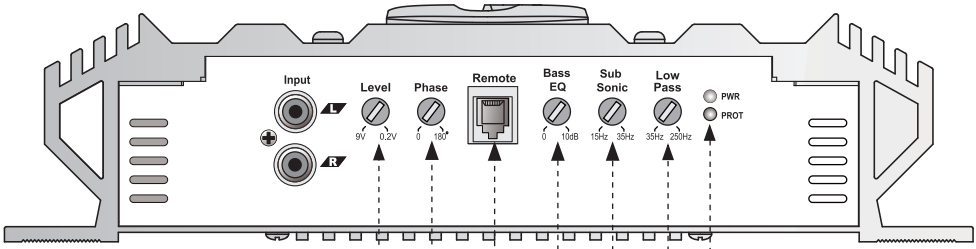
1. Before drilling or cutting any holes, carefully investigate your car's layout to avoid damaging fuel lines, gas tanks, hydraulic lines, and electrical wiring.
2. Do not operate the amplifier when it is unmounted. Securely attach all audio system components within the vehicle to prevent damage, especially in the event of an accident.
3. Do not mount the amplifier in a manner that leaves wire connections unprotected or in a pinched condition. Ensure adequate ventilation for the amplifier.
4. Before making or breaking power connections, disconnect the vehicle battery. Ensure the head unit or other equipment is turned off while connecting the input jacks and speaker terminals.
5. If replacing the power fuse, only use a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in system damage not covered by the manufacturer's warranty.

INSTALLATION

1. Find a suitable location in the vehicle to mount the amplifier.
2. Ensure sufficient airflow around the intended mounting location.
3. Bolt the amplifier to the mounting surface.
4. Connect the power ground terminal to the nearest chassis point. Keep this ground wire less than 39 inches in length and use 8 gauge wire.
5. Connect the remote terminal to the remote output of the head unit using 14 gauge wire.
6. Install an empty fuse holder within 12 inches of the battery and run 8 gauge or larger high-quality cable from this fuse to the amplifier location.
7. Connect this cable to the "BATT" connection on the amplifier. If using multiple amplifiers, use separate cables with their own fuse at the battery or a #0 or #2 cable from the fuse holder at the battery to a distribution block near the amplifier's location.
8. Connect all line inputs and outputs using high-quality RCA cables.
9. Insert fuse(s) at the battery fuse holder(s).
10. Recheck all connections before powering up.
11. Set all level controls to their least sensitive positions and adjust all crossover controls, switches, etc., to the desired frequency or position.
12. Power up the system and set the head unit volume to about the 2 o'clock position, then adjust the amplifier's level controls for maximum output.
13. Further fine-tuning of the various controls may be necessary to achieve the desired sound quality.

CONTROLS

VIBE1100N - VIBE1400N



Input Level Controls

Enables matching of input levels to the output levels from the head unit (or other signal source).

Phase Shift

Allows you to change the phase of your subwoofer from 0 to 180 degrees to help compensate for timing differences between drivers.

Remote Control

Bass EQ Control

Increases sound level in lower frequencies by up to 10 dB.

Subsonic Filter

Adjustable between 15 Hz and 35 Hz.

Low Pass Filter

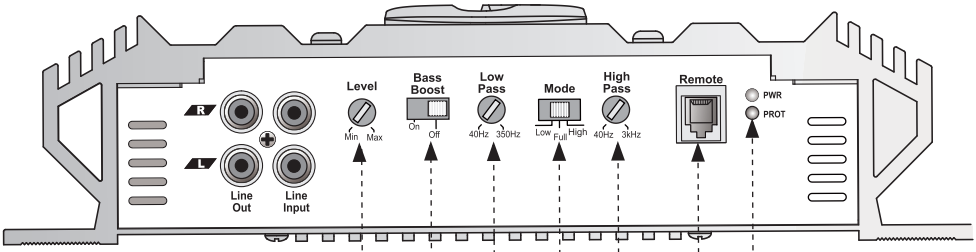
This control limits the frequencies that will be distributed to the speakers to those below the value set within the range of 35-250 Hz.

Power & Protection Indicators

Provides instant information on the status of the amplifier, including short-circuit and thermal overload alerts.

CONTROLS

VIBE2102N



Input Level Controls

Enables matching of input levels to the output levels from the head unit (or other signal source).

Bass EQ Control

Increases sound level in lower frequencies by up to 18 dB.

Low Pass Filter

This control limits the frequencies that will be distributed to the speakers to those below the value set within the range of 40-350 Hz.

Crossover Mode Selector

Determines the mode of the built-in crossover: Low Pass (permits only low-frequency signals to pass to speakers), High Pass (permits only high-frequency signals to pass to speakers), or Full.

Power & Protection Indicators

Provides instant information on the status of the amplifier, including short-circuit and thermal overload alerts.

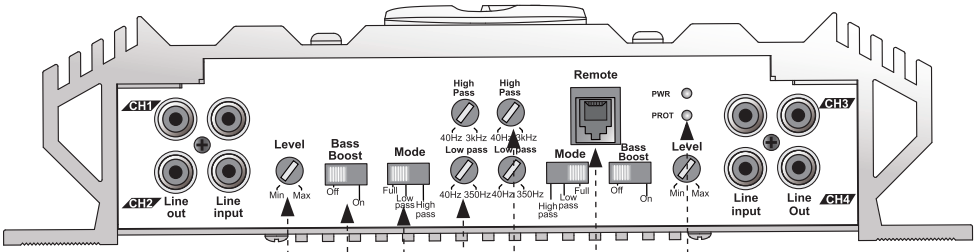
Remote Control

High Pass Filter

When the Crossover Mode Selector is set to High Pass Mode, this control limits the frequencies that will be distributed to the speakers to those above the value set within the range of 40 Hz to 3 kHz.

CONTROLS

VIBE442N - VIBE452N - VIBE452N.6



Input Level Controls

Enables matching of input levels to the output levels from the head unit (or other signal source).

Bass EQ Control

Increases sound level in lower frequencies by up to 18 dB.

Crossover Mode Selector

Determines the mode of the built-in crossover:

Low Pass (permits only low-frequency signals to pass to speakers), High Pass (permits only high- frequency signals to pass to speakers), or Full.

Power & Protection Indicators

Provides instant information on the status of the amplifier, including short-circuit and thermal overload alerts.

Remote Control

High Pass Filter

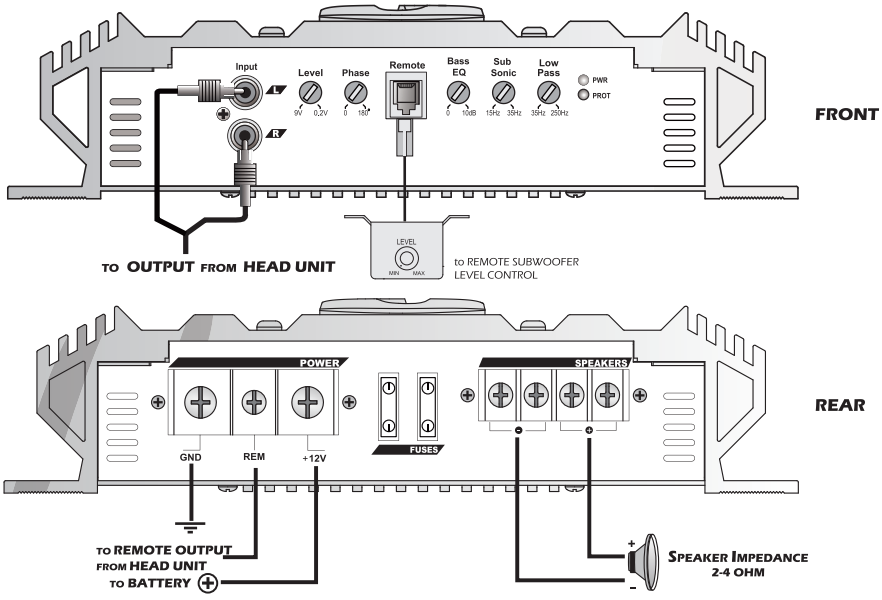
When the Crossover Mode Selector is set to High Pass Mode, this control limits the frequencies that will be distributed to the speakers to those above the value set within the range of 40 Hz to 3 kHz.

Low Pass Filter

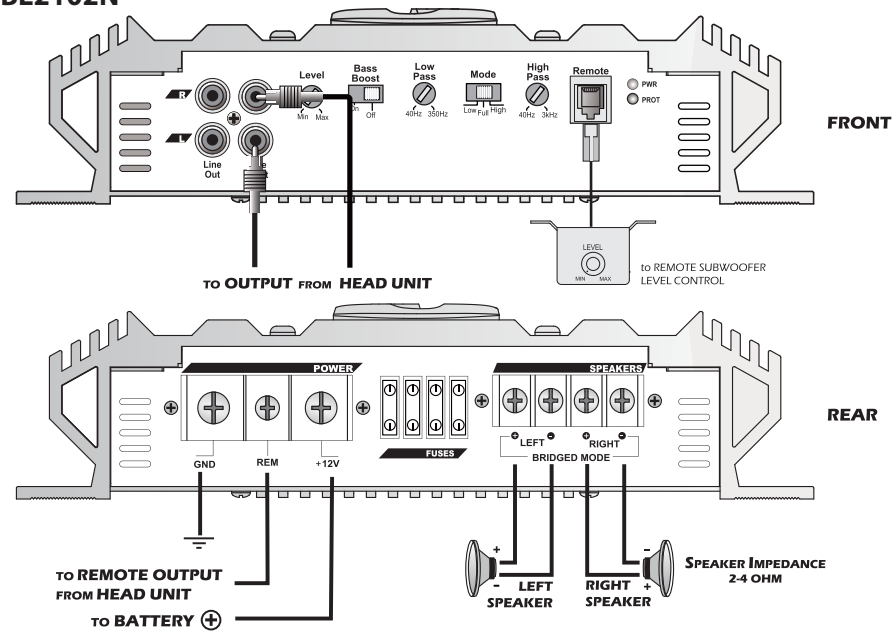
This control limits the frequencies that will be distributed to the speakers to those below the value set within the range of 40-350 Hz.

SYSTEM WIRING

Mono Block Configuration
VIBE1100N - VIBE1400N

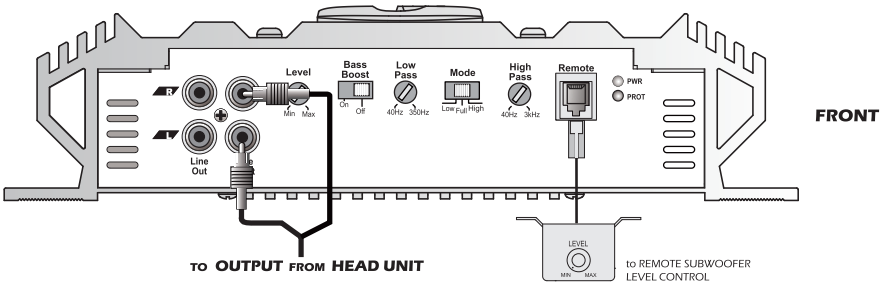


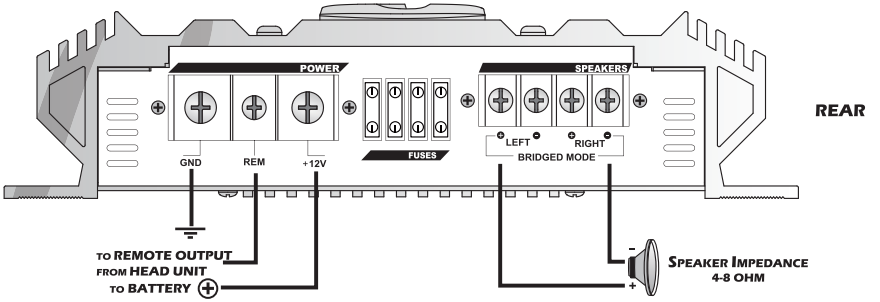
2 Channel Stereo Configuration
VIBE2102N



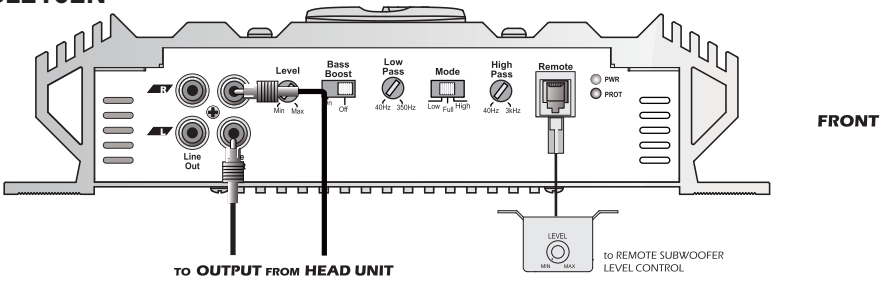
SYSTEM WIRING

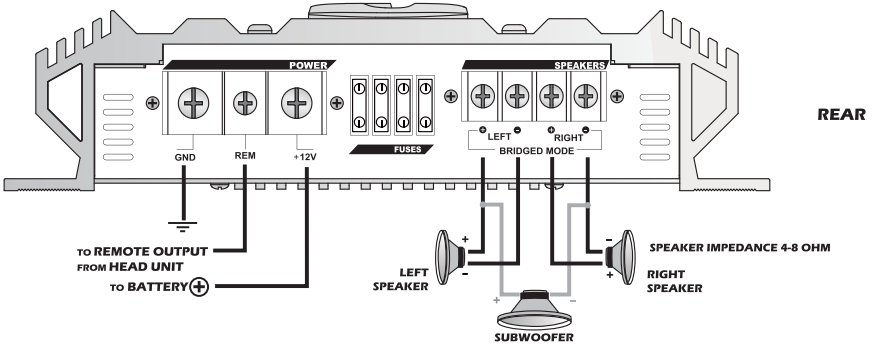
2 Channel Bridged Mode Configuration
VIBE2102N





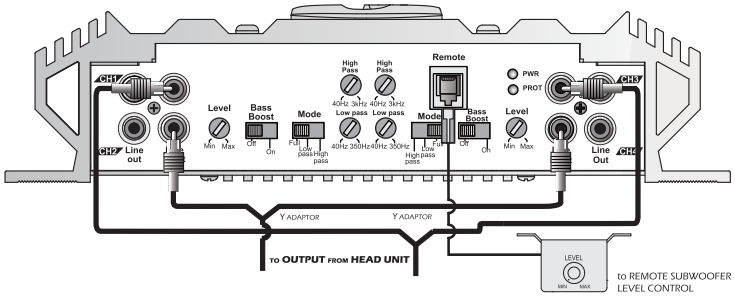
2 Channel Tri-Mode Configuration
VIBE2102N



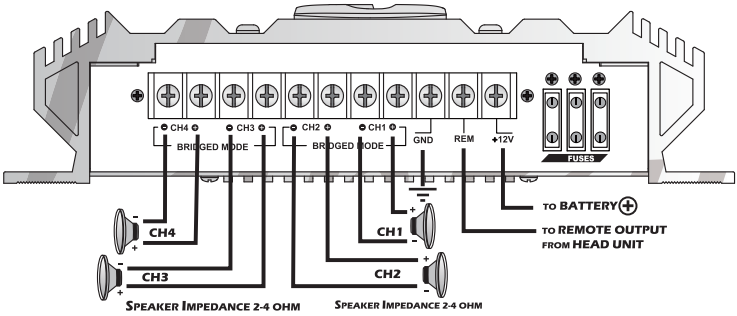


SYSTEM WIRING

4 Channel Stereo Configuration
VIBE442N - VIBE452N - VIBE452N.6

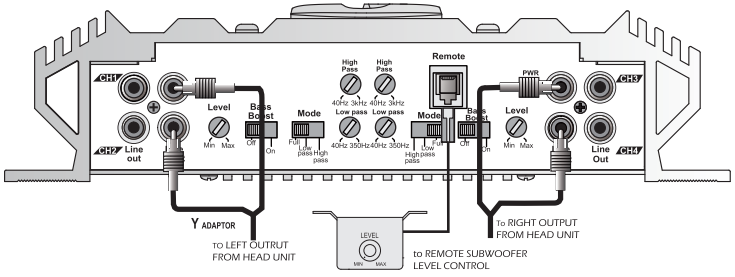


FRONT

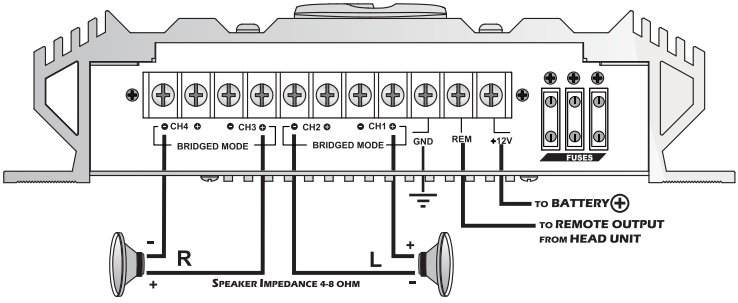


REAR

4 Channel Bridged Mode Configuration
VIBE442N - VIBE452N - VIBE452N.6



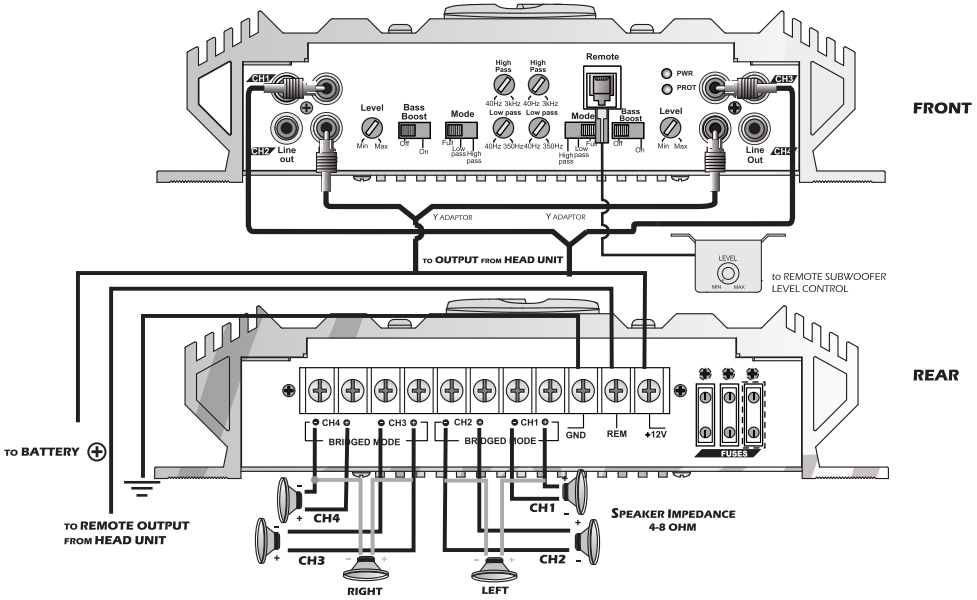
FRONT



REAR

SYSTEM WIRING

4 Channel Tri-Mode Configuration
VIBE442N - VIBE452N - VIBE452N.6



TROUBLESHOOTING

AMPLIFIER WILL NOT POWER UP

- Check for a good ground connection.
- Ensure that the remote DC terminal has at least 3V DC.
- Verify battery power on the + terminal.
- Inspect all fuses.
- Check that the Protection LED is not lit. If it is, shut off the amplifier briefly and then repower it.

HIGH HISS OR ENGINE NOISE (ALTERNATOR WHINE) IN SPEAKERS

- Disconnect all RCA inputs to the amplifier(s). If hiss/noise disappears, then plug in the component driving the amplifier and unplug its inputs. Continue until the faulty/noisy component is identified.
- Set the amplifier's input level as low as possible. The best subjective S/N ratio is obtainable this way. Try to drive the signal level from the head unit as high as possible.

PROTECTION LED COMES ON WHEN THE AMPLIFIER IS POWERED UP

- Check for shorts on speaker leads.
- Ensure the volume control on the head unit is turned down low.
- Remove speaker leads and reset the amplifier.
  If the Protection LED still comes on, the amplifier may be faulty.

AMPLIFIER(S) GETS VERY HOT

- Verify that the minimum speaker impedance for the model is correct.
- Check for speaker shorts.
- Ensure good airflow around the amplifier. In some applications, an external cooling fan may be required.

DISTORTED SOUND

- Verify that the Level control(s) is set to match the signal level of the head unit.
- Ensure all crossover frequencies are properly set.
- Check for shorts on the speaker leads.

HIGH SQUEAL NOISE FROM SPEAKERS

Ensure all connections are secure and no components are loose.

CLEANING AND STORAGE

CLEANING

Exterior Surface:

To clean the exterior surface of your amplifier, use a soft, dry cloth. If necessary, slightly dampen the cloth with water or a mild detergent.
Avoid using any harsh chemicals, solvents, or abrasive materials, as these can damage the surface finish.

Vents and Openings:

Ensure that the ventilation openings are free from dust and debris.
Use a can of compressed air to gently blow out any accumulated dust, taking care not to force debris deeper into the unit.

STORAGE

Disconnect All Cables:
Before storing the amplifier, disconnect all power, input, and output cables. Store these cables separately to avoid tangling and potential damage.

Cool, Dry Environment:
Store the amplifier in a cool, dry place, away from direct sunlight, heat sources, and moisture. Extreme temperatures and humidity can affect the performance and longevity of the unit.

Protect from Dust:
If possible, store the amplifier in its original packaging or a dust cover to protect it from dust accumulation. Alternatively, place it in a padded storage case.

Avoid Stacking:
Do not stack heavy objects on top of the amplifier during storage, as this can cause physical damage to the unit.

Register Product

Thank you for choosing PyleUSA. By registering your product, you ensure that you receive the full benefits of our exclusive warranty and personalized customer support.
Complete the form to access expert support and to keep your PyleUSA purchase in perfect condition.

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Questions or Comments?
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