

*Lanzar*<sup>®</sup>**vibe**  
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USER'S MANUAL



AMPLIFIERS:

VIBE232N  
VIBE242N  
VIBE252N  
VIBE262N  
VIBE292N  
VIBE412N  
VIBE422N  
VIBE432N  
VIBE532N

*Lanzar*<sup>®</sup>**vibe**

Congratulations on your purchase of a Lanza Vibe amplifier. You have purchased a quality product designed and engineered to give you many years of uncompromised musical service. Vibe amplifiers are designed with the latest technology available, incorporating a DC to DC Switching Power Supply, which provides headroom for even the most demanding peaks and dynamic ranges found on modern CD's and recordings.

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FEATURES

- MOSFET switches maintain rated power over a wide range of battery voltages
- Stiffly regulated PWM-type power supplies
  - 2 Ohm Stable Stereo operation
- Variable input level controls for each pair of channels
- Variable high and low pass crossover controls
- Thermal and speaker short protection circuitry
  - Power and Protection LED indicators
  - Bass Boost Circuitry
    - Stereo, Bridge Mode and Tri-Mode System Application Compatible
    - Silver plated power, RCAand speaker connectors
      - High-efficiency, heavy aluminum heatsink
      - Bass Boost Remote control

TROUBLESHOOTING

AMPLIFIER WILL NOT POWER UP.

- Check for good ground connection.
- Check that remote DC terminal has at least 3v DC.
- Check that there is battery power on the + terminal.
- Check all fuses.
- Check that Protection LED is not lit. If it is lit, shut off 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. If hiss/noise disappears, go on until the faulty/noisy component is found.
- It is best to set the amplifier's input level as low as possible.The best subjective S/N ratio is obtainle this way.Try drive as signal level from the head unit as possibe.

PROTECTION LED COMES ON WHEN THE AMPLIFIER IS POWERED UP.

- Check for shorts on speaker leads.
- Check that 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, then the amplifier is faulty.

AMPLIFIER(S) GETS VERY HOT.

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

DISTORTED SOUND

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

HIGH SQUEAL NOISE FROM SPEAKERS.

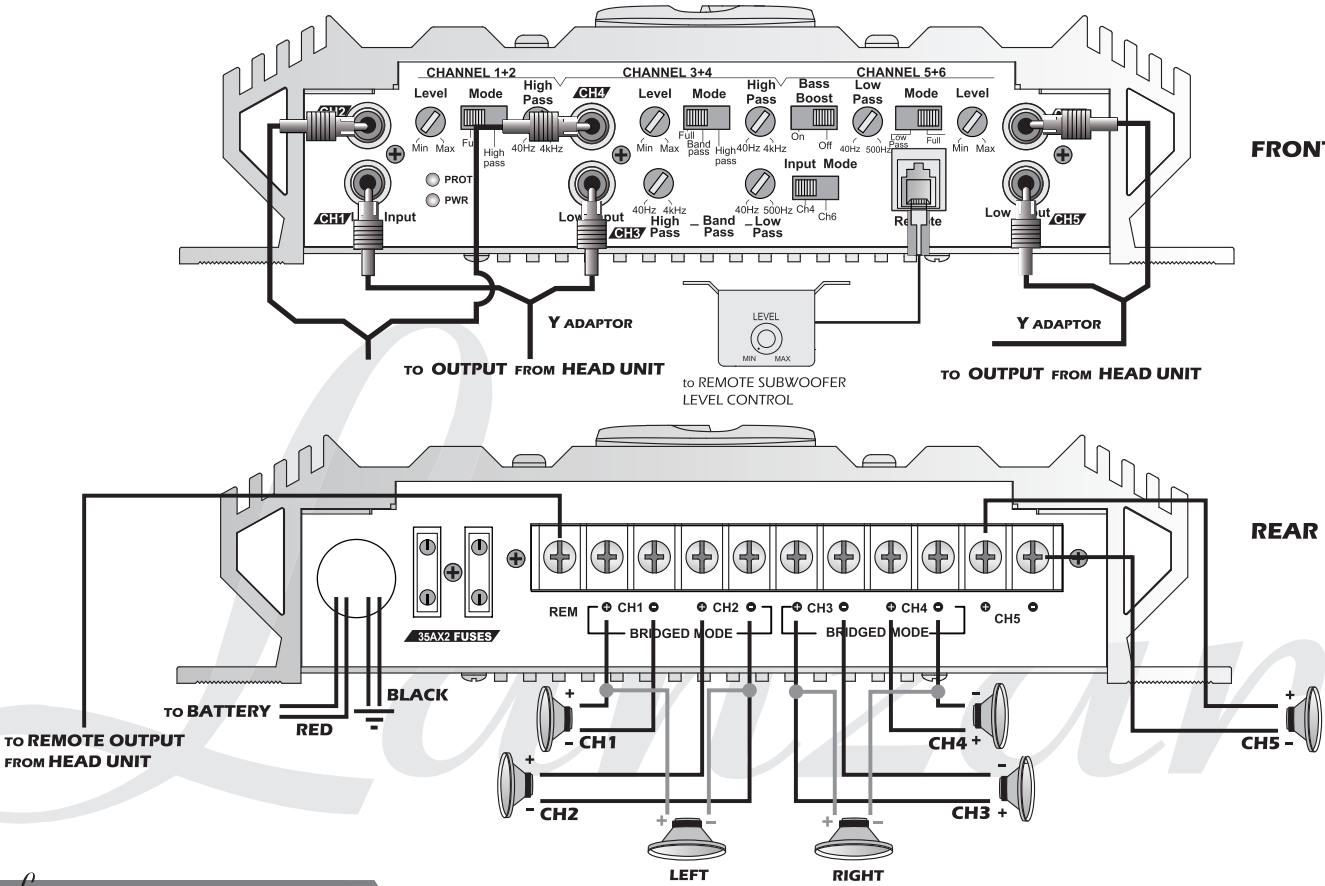
- This is almost always caused by a poorly-grounded RCA patch cord.

**SYSTEM WIRING**  
**5 CHANNEL TRI-MODE CONFIGURATION**

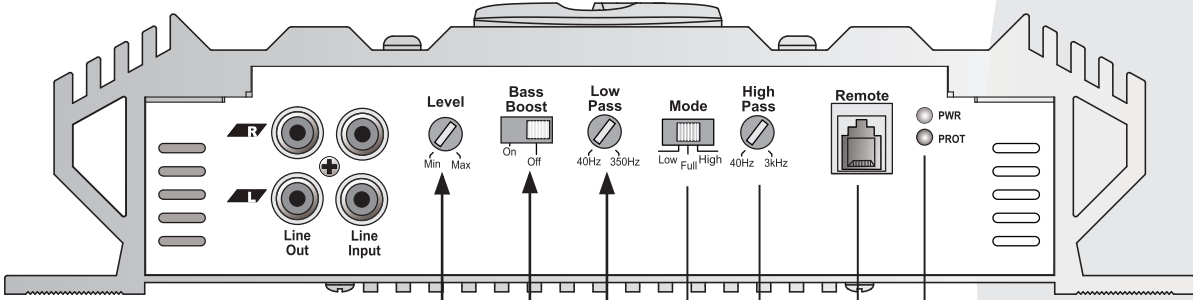
**VIBE532N**

**FRONT**

**REAR**



**FEATURES AND CONTROLS**  
**VIBE232N/242N/252N/262N/292N**



**INPUT LEVEL CONTROLS**

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

**BASS BOOST CONTROL**

Increases sound level in lower frequencies by 18dB.

**LOW PASS FILTER**

When Crossover Mode Selector is in Low Pass Mode, this control limits the frequencies which will be distributed to the speakers to those below the value to which this is set within the range 40-350Hz.

**POWER & PROTECTION INDICATORS**

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

**REMOTE CONTROL**

**HIGH PASS FILTER**

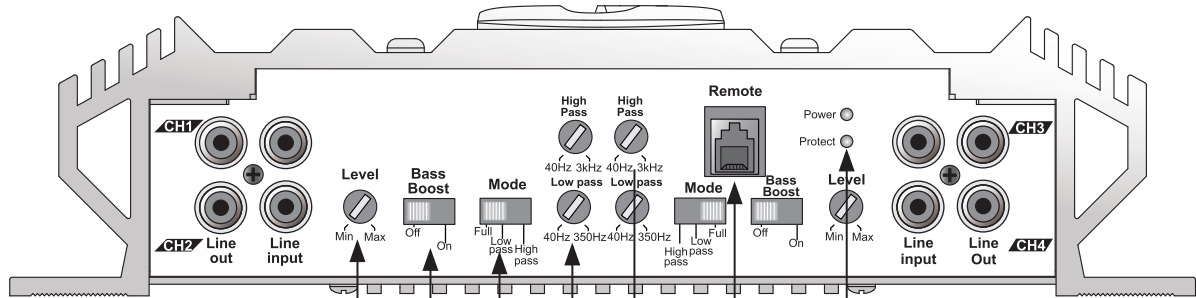
When Crossover Mode Selector is on High Pass Mode, this control limits the frequencies which will be distributed to the speakers to those above the value to which this is set within the range 40Hz-3kHz.

**CROSSOVER MODE SELECTOR**

Determines the mode of 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 flat.



FEATURES AND CONTROLS  
VIBE412N/422N/432N



INPUT LEVEL CONTROLS

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

BASS BOOST CONTROL

Increases sound level in lower frequencies by 18dB.

CROSSOVER MODE SELECTORS

Determine the mode of built-in crossovers: low pass (permits only low frequency signals to pass to speakers), high pass (permits only high frequency signals to pass to speakers), or flat.

LOW PASS FILTER

When Crossover Mode Selector is in low Pass Mode, this control limits the frequencies which will be distributed to the speakers to those below the value to which this is set within the range 40-350 Hz

POWER & PROTECTION INDICATORS

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

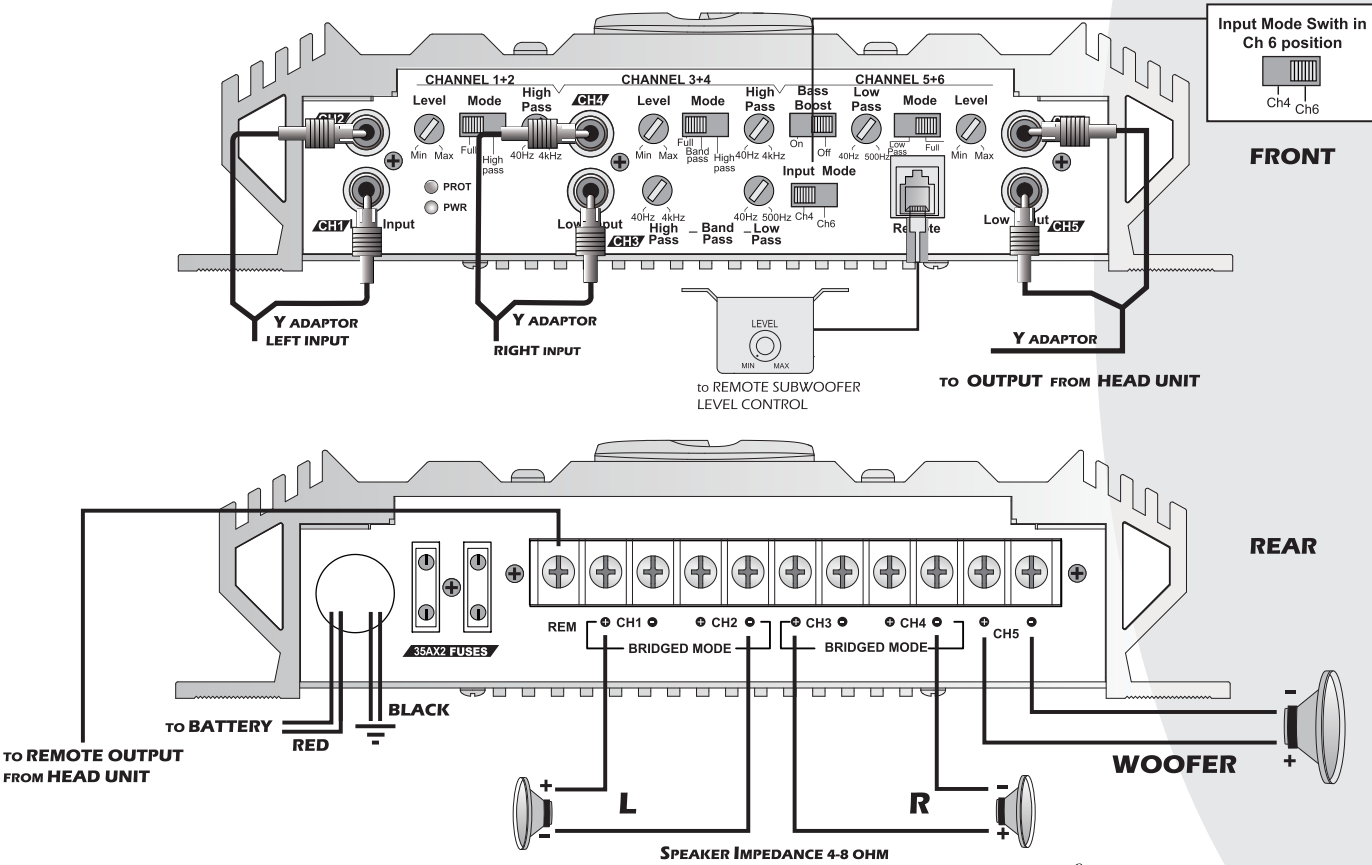
REMOTE CONTROL

HIGH PASS FILTER

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

VIBE532N

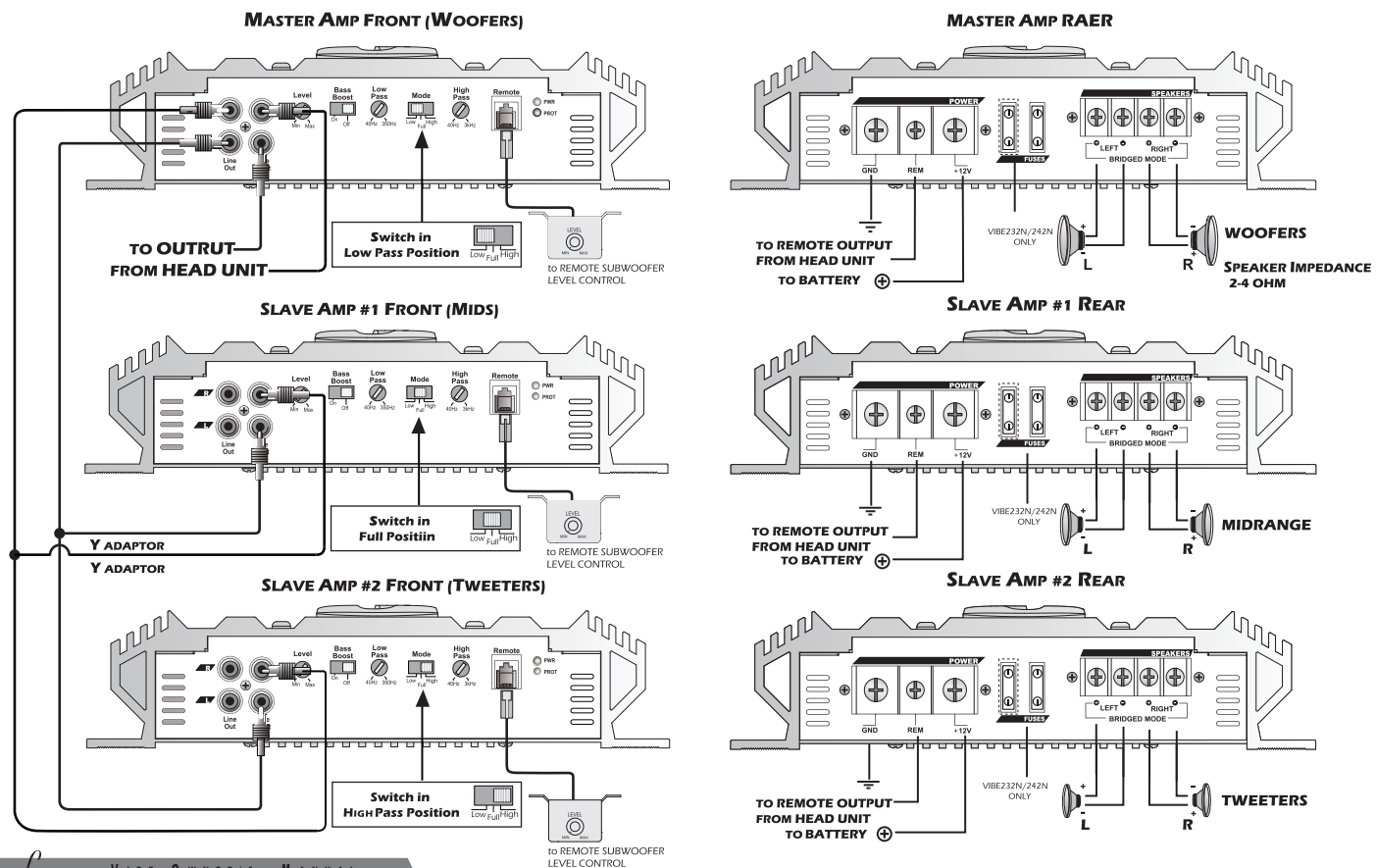
SYSTEM WIRING  
5 CHANNEL BRIDGED MODE CONFIGURATION





## SYSTEM WIRING

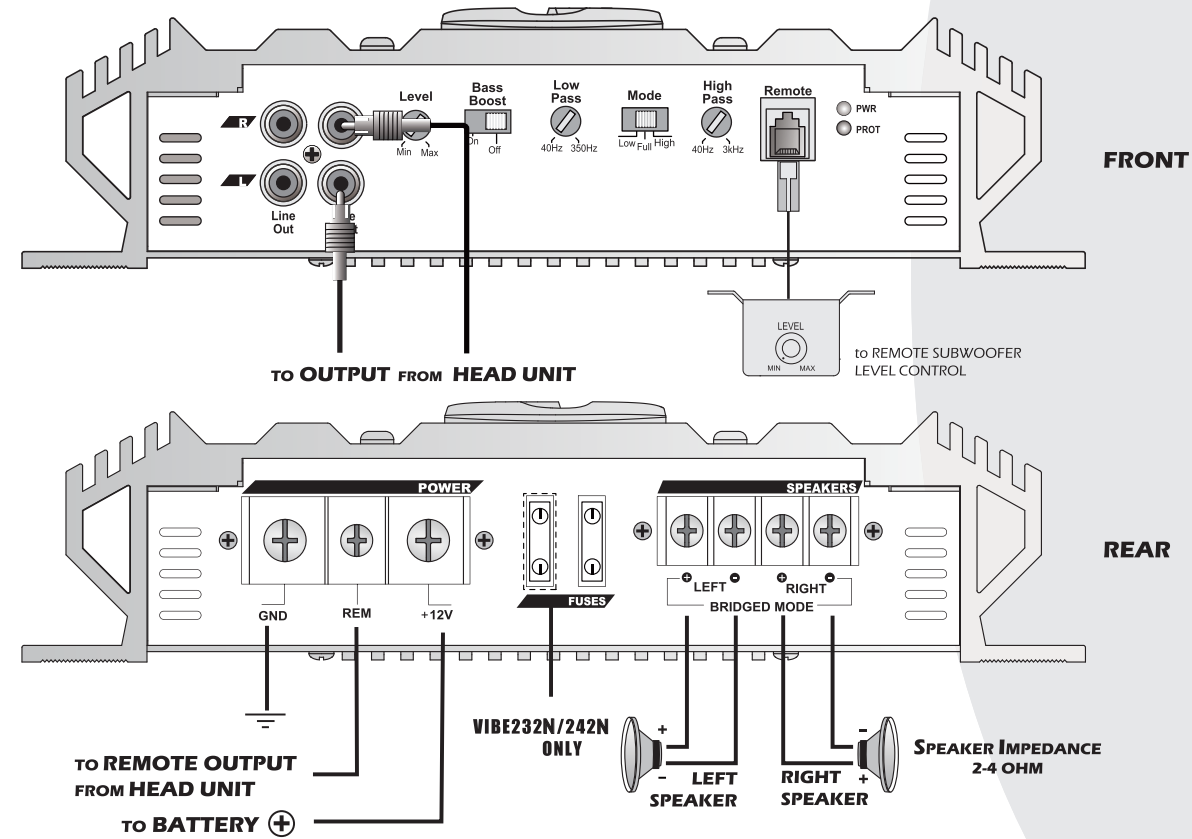
### TRIAMP SYSTEM USING THREE 2 CHANNEL AMPLIFIERS



## VIBE232N/242N/252N/262N/292N

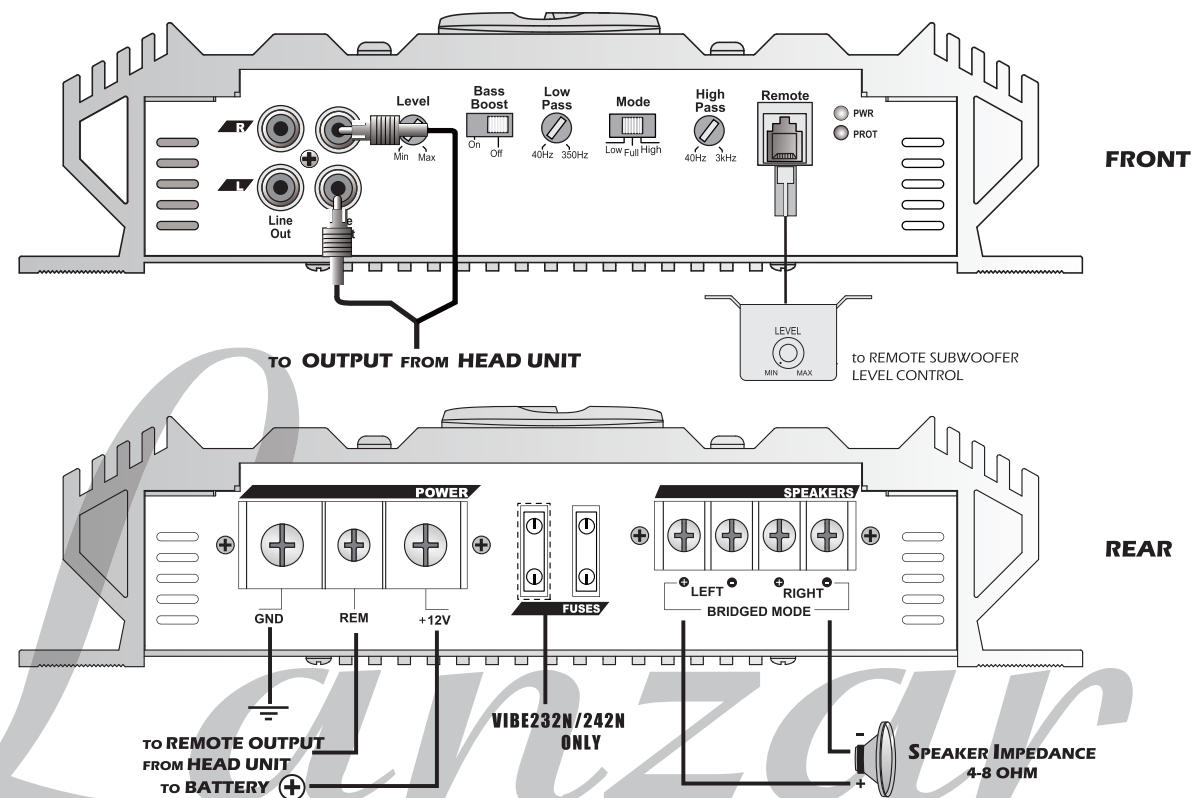
## SYSTEM WIRING

### 2 CHANNEL STEREO CONFIGURATION



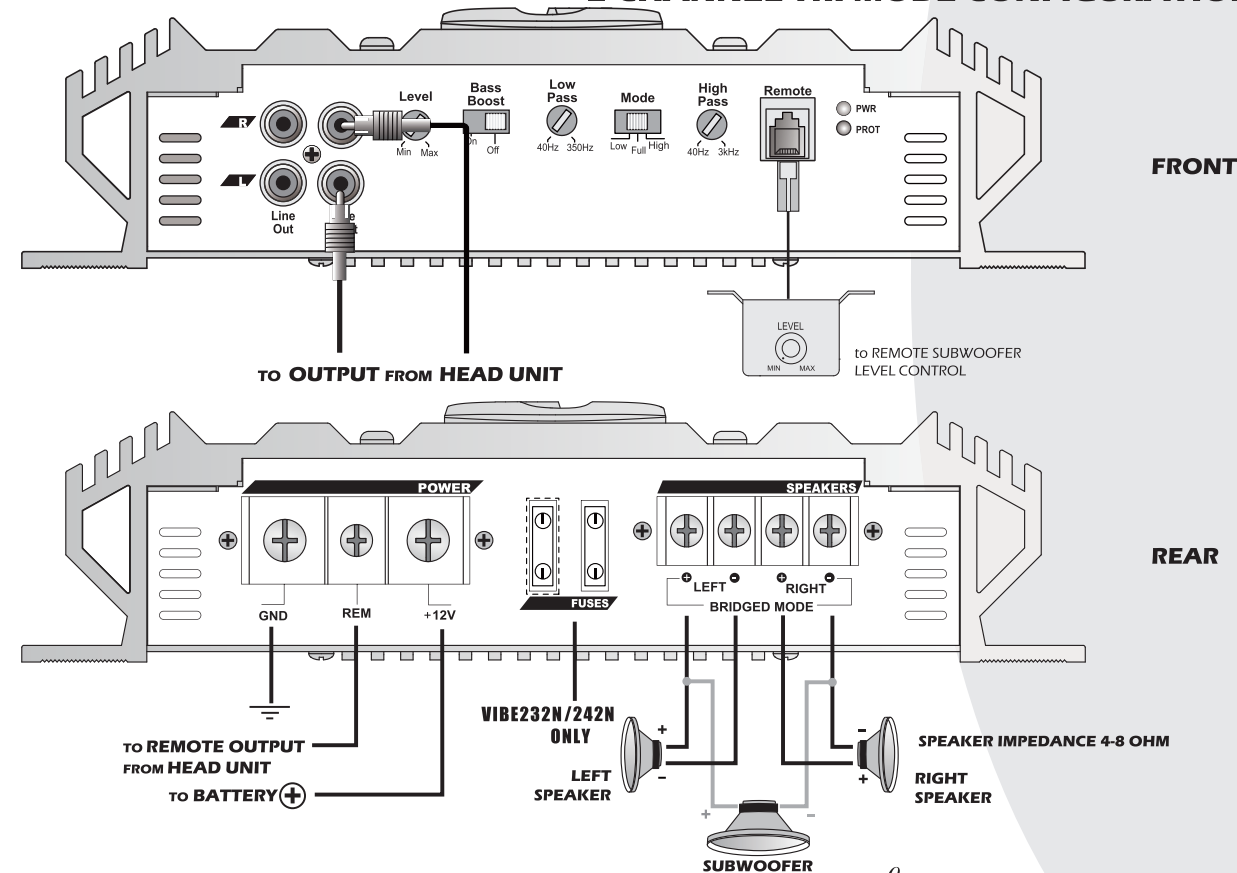
## SYSTEM WIRING 2 CHANNEL BRIDGED MODE CONFIGURATION

VIBE232N/242N/252N/262N/292N



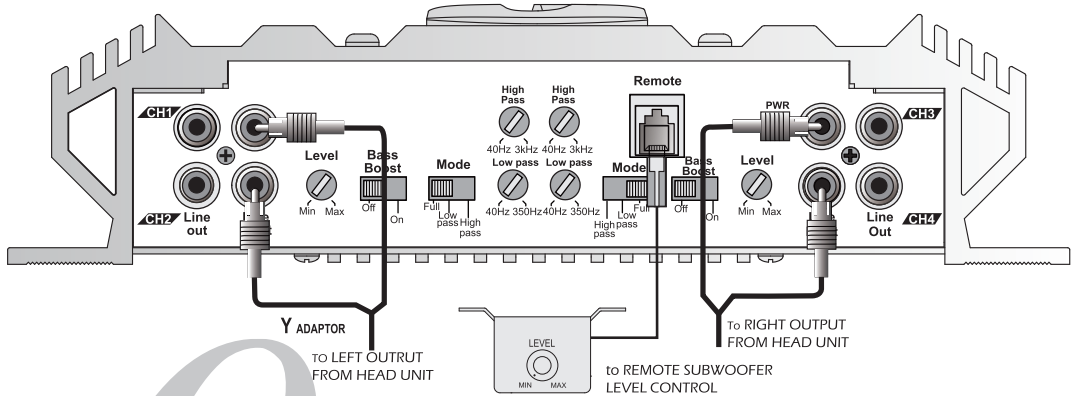
VIBE232N/242N/252N/262N/292N

## SYSTEM WIRING 2 CHANNEL TRI-MODE CONFIGURATION

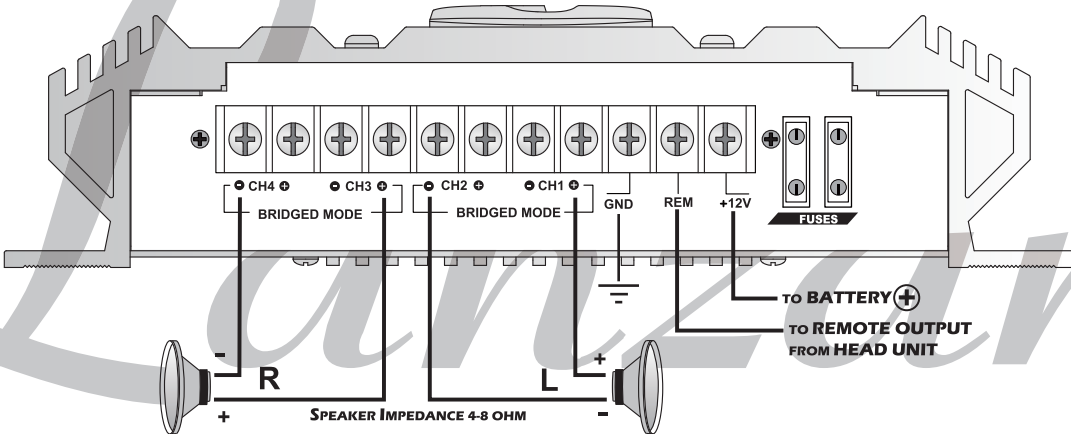


SYSTEM WIRING  
4 CHANNEL BRIDGED MODE CONFIGURATION

VIBE412N/422N/432N



FRONT



REAR

Vibe292N 2 channel amplifier	Vibe412N 4 channel amplifier	Vibe422N 4 channel amplifier	Vibe432N 4 channel amplifier	Vibe532N 5 channel amplifier
2x1250W	4x125W	4x250W	4x500W	4x250W+1x600W
2x2500W	4x250W	4x500W	4x1000W	4x500W+1x1200W
1x5000W	2x500W	2x1000W	2x2000W	2x1000W+1x1200W
2x2100W	4x200W	4x400W	4x850W	4x575W+1x875W
2 Ohm	2 Ohm	2 Ohm	2 Ohm	2 Ohm
0.05%	0.05%	0.05%	0.05%	0.05%
10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB
100mV-4000mV	100mV-4000mV	100mV-4000mV	100mV-4000mV	100mV-4000mV
20 kOhm	20 kOhm	20 kOhm	20 kOhm	20 kOhm
>95dB	>95dB	>95dB	>95dB	>95dB
>60dB	>60dB	>60dB	>60dB	>60dB
40Hz-350Hz 40Hz-3kHz n/a	40Hz-350Hz 40Hz-3kHz n/a	40Hz-350Hz 40Hz-3kHz n/a	40Hz-350Hz 40Hz-3kHz n/a	40Hz-500Hz 40Hz-4kHz variable,40Hz-4kHz(HPF) 40Hz-500Hz(LPF)
+18dB	+18dB	+18dB	+18dB	+18dB
10.25x2.36x23.03(WxHxL)	10.25x2.36x11.6(WxHxL)	10.25x2.36x14.76(WxHxL)	10.25x2.36x16.34(WxHxL)	10.25x2.36x23.62(WxHxL)
30Ax2	25Ax2	25Ax2	30Ax2	35Ax2



## INSTALLATION

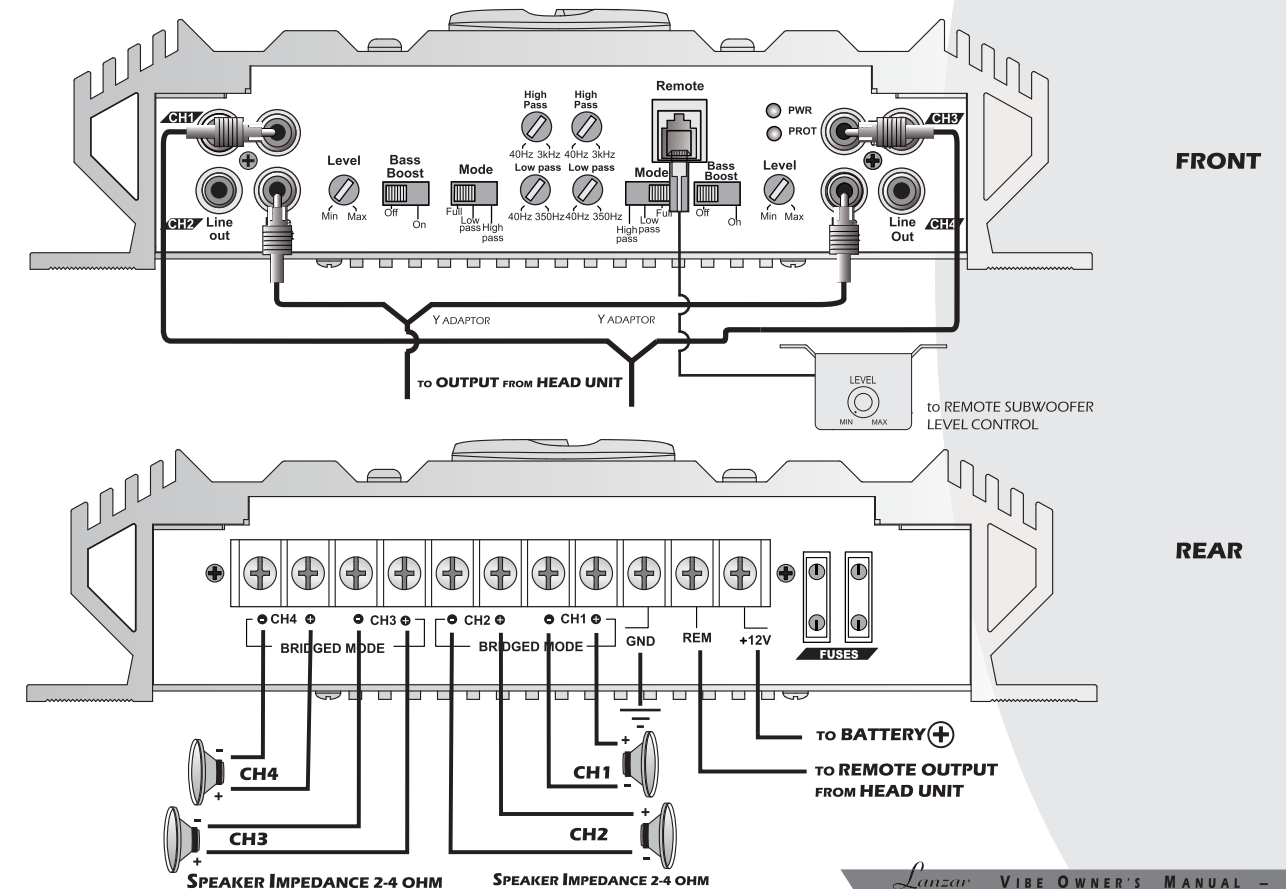
1. Find a suitable location in the vehicle to mount the amplifier.
2. Make sure there is sufficient air flow around the intended mounting location.
3. Bolt the amplifier to the mounting surface.
4. Connect the power ground terminal to the nearest point on the chassis of the car. Keep this ground wire less than one meter (39") in length. Use 8 gauge wire.
5. Connect the remote terminal to the remote output of the head unit using 14 gauge wire.
6. Connect an empty fuse holder within 300 mm (12") of the battery and run 8 gauge or larger high quality cable from this fuse to the amplifier location.
7. Make sure there is no fuse in this fuse holder. Then make the connection to the "BATT" connection on the amplifier.
8. If multiple amplifiers are being used, use cables (each with its own fuse at the battery) or a #0 or #2 cable from the fuse holder at the battery to a distribution block at or near the amplifier's location.
9. Connect all line inputs and outputs using high-quality RCA-RCA cables.
10. Insert fuse (s) at the battery fuse holder(s).
11. Recheck all connections before powering up.
12. Set all level controls to their least sensitive positions and set all crossover controls, switches, etc. to the desired frequency or position.
13. Once the system is powered up, set all the volume control on the head unit to about the 2 o'clock position, and then set all the amplifiers' level controls for maximum output level.
14. Further fine tuning of the various controls may be necessary to obtain the desired results.

## PRECAUTIONS

- Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring.
- Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.
- Do not mount this amplifier so that the wire connections are unprotected or in a pinched condition, or likely to be damaged by nearby objects. Be sure to select a location inside your vehicle which has adequate ventilation.
- Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.
- If you need to replace the power fuse, only replace it with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to your system which isn't covered by the manufacturer's warranty.

## VIBE412N/422N/432N

## SYSTEM WIRING 4 CHANNEL STEREO CONFIGURATION



## SYSTEM WIRING

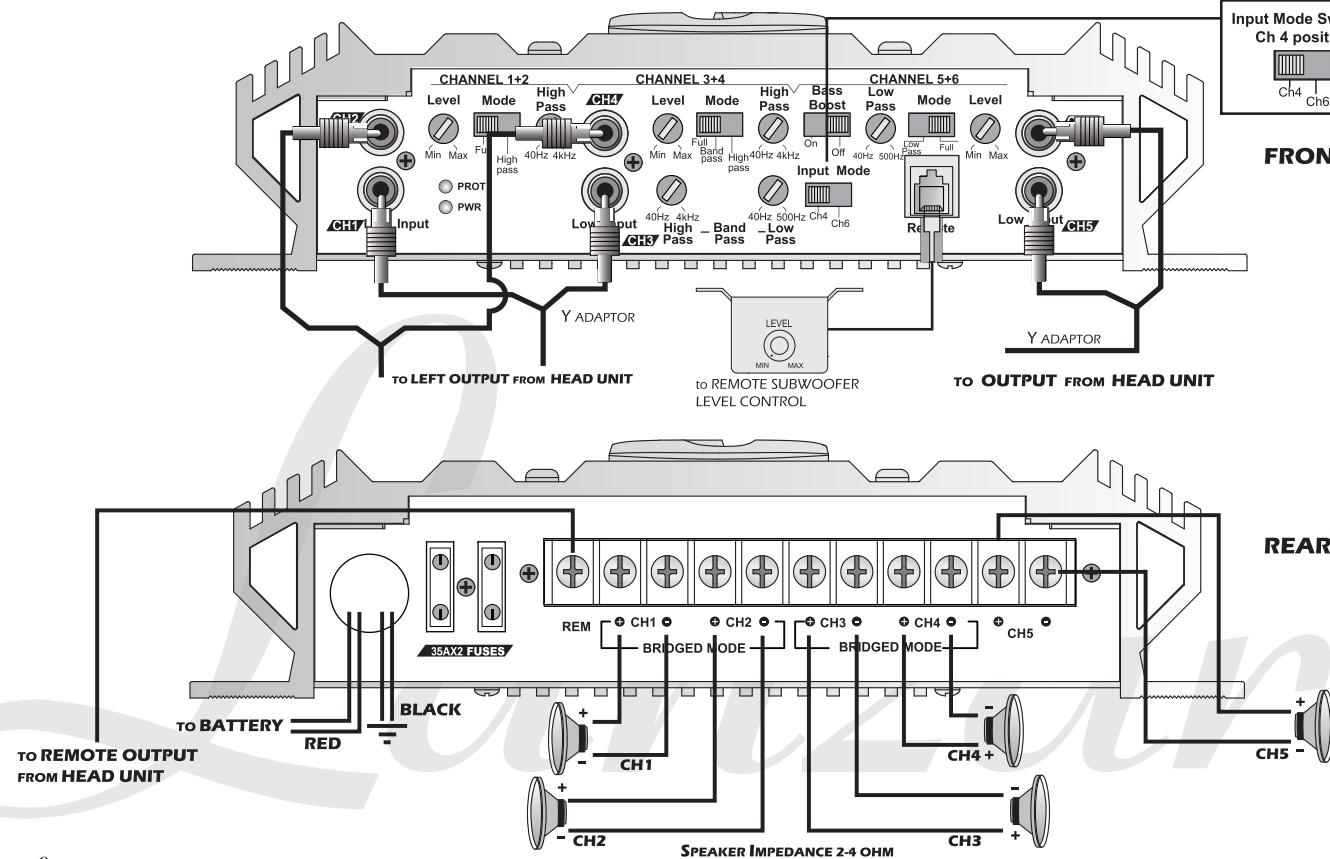
### 5 CHANNEL STEREO CONFIGURATION

VIBE532N

Input Mode Switch in  
Ch 4 position

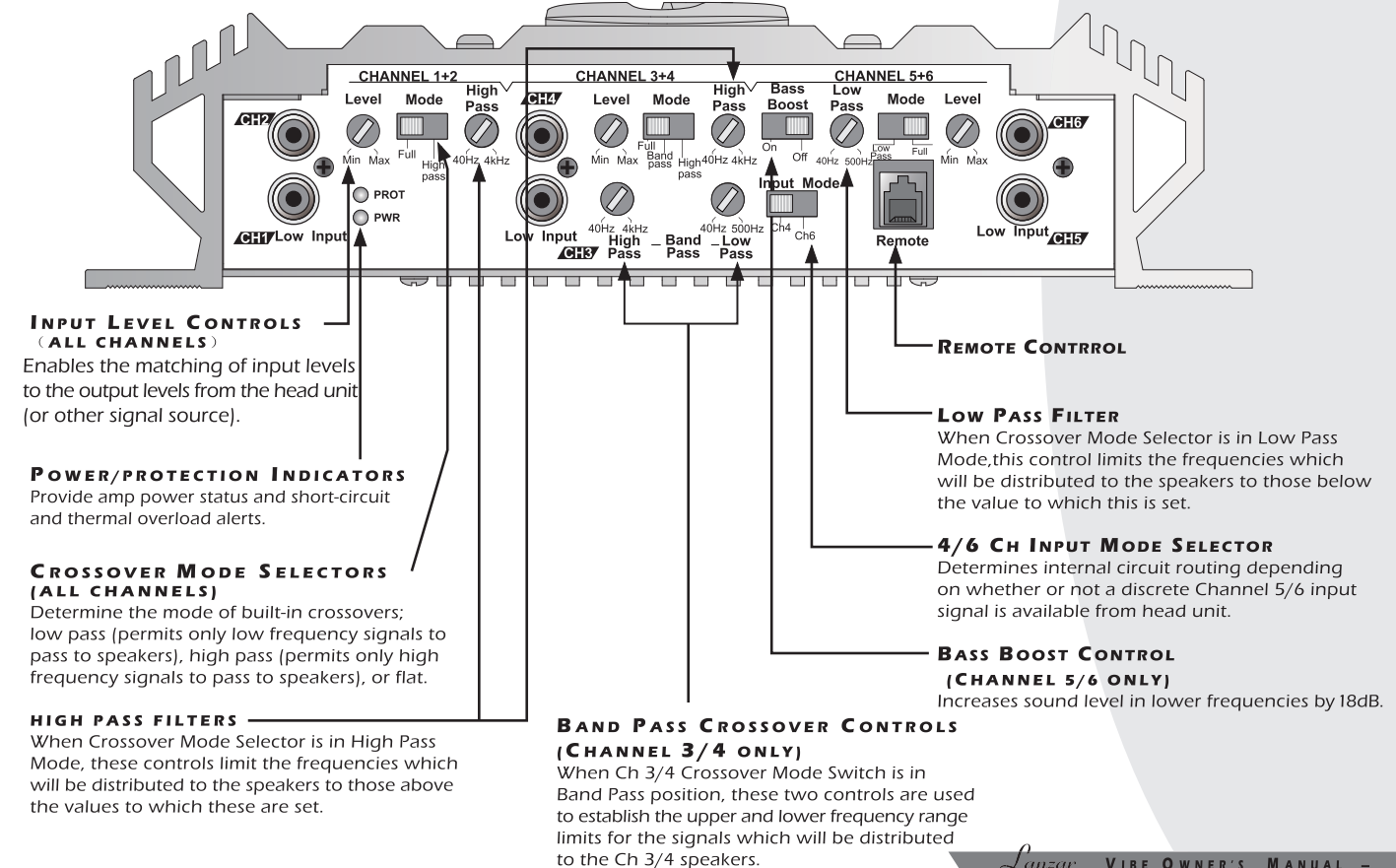
FRONT

REAR



## FEATURES AND CONTROLS

### VIBE532N



SPECIFICATIONS

MODEL	Vibe232N 2 channel amplifier	Vibe242N 2 channel amplifier	Vibe252N 2 channel amplifier	Vibe262N 2 channel amplifier
RMS at 4 Ohms	2x300W	2x500W	2x750W	2x1050W
MAX at 4 Ohms	2x600W	2x1000W	2x1500W	2x2100W
At 4 Ohms Bridged	1x1200W	1x2000W	1x3000W	1x4200W
RMS at 2 Ohms	2x500W	2x840W	2x1200W	2x1750W
Min. Speaker Impedance	2 Ohm	2 Ohm	2 Ohm	2 Ohm
T.H.D	0.05%	0.05%	0.05%	0.05%
Frequenrcy Response	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB	10Hz-40kHz,-1dB
Input Sensitivity	100mV-4000mV	100mV-4000mV	100mV-4000mV	100mV-4000mV
Input Impedance	20 kOhm	20 kOhm	20 kOhm	20 kOhm
S/N Ratio	>95dB	>95dB	>95dB	>95dB
Channel Separation	>60dB	>60dB	>60dB	>60dB
Crossover Filters Low Pass High Pass Bandpass	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	+18dB	+18dB	+18dB	+18dB
Dimensions(Inches)	10.25x2.36x12(WxHxL)	10.25x2.36x15.16(WxHxL)	10.25x2.36x19.1(WxHxL)	10.25x2.36x21.65(WxHxL)
Fuse(s)	15Ax2	20Ax2	25Ax2	30Ax3

VIBE412N/422N/432N

SYSTEM WIRING  
4 CHANNEL TRI-MODE CONFIGURATION

