

# ALLIANCE

Welcome to the ALLIANCE! By purchasing your new ALLIANCE Audio amplifier you are joining a widespread movement dedicated to bringing power, performance, and value to the world of car audio.

Before installing and using your new ALLIANCE Amplifier, please review and become familiar with all of the information in this manual.

Do not open or attempt to repair this amplifier yourself. Potentially dangerous levels of high voltage are present which may result in electric shock. Should you experience the need for service, please return your amplifier to the Authorized ALLIANCE Audio dealer from whom you purchased the unit for any required service.

ALLIANCE Audio recommends that all ALLIANCE Audio products be installed by Authorized ALLIANCE Audio dealers for optimum performance.

#### Safety First!

- Before you drill or cut any holes, look at your vehicle layout very carefully. Be very careful when you work near the gas tank, fuel lines, hydraulic lines, and electrical wiring.
- Mount before using. This will protect against damage and shorts that may occur with movement.
- Disconnect your battery before making or breaking power connections.
- Confirm your source unit is powered off while connecting input jacks and speaker terminals.
- Make sure to use an inline fuse for your mono amplifier installations. Fuse size recommendations are located at the end of the manual.

#### Mount Up!

- Find a suitable location in the vehicle in which to mount your ALLIANCE Amplifier.
- Make sure there is sufficient air circulation.
- Mark the location where you are mounting the amplifier and use a scribe or mounting screw to mark the locations of the mounting holes.
- Drill pilot holes (remember, check behind anything you are drilling) and then mount the amplifier.

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## Specifications

### VL2000D

Peak Power: 2000W

Power RMS 1Ω @ 14.4V: 1 x 500 Watts

Power RMS 2Ω @ 14.4V: 1 x 250 Watts

Power RMS 4Ω @ 14.4V: 1 x 125 Watts

THD+N @ Nominal Power: 1 x 500 Watts 1Ω

Frequency Response: 15Hz ~ 250Hz

SNR: 92dB

Input Sensitivity: 0.2V to 9V

Damping Factor: 150

Operating Voltage: 9V to 16V

High Pass Filter: 10Hz to 50Hz

Low Pass Filter: 50Hz to 220Hz

Total Efficiency: 500W

Max Current Draw (A): 59

Music Current Draw (A): 31

Dimensions: 5.8" W x 7.1" L x 1.9" H

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## Connection Time!

- Connect the Ground terminal to the closest point on the chassis of the car. This connection should be no longer than 36" in length. Use 4-gauge (or heavier) wire.
- Connect the Remote terminal to the remote output of the head unit. Use 16-gauge (or heavier) wire.
- Connect Power wire to battery. Make sure to use an inline fuse that matches the ratings called out for your amplifier at the end of this manual. The inline fuse should be mounted within 18" of the car battery. Use 4-gauge wire (or heavier) from the fuse location to the amplifier.
- Connect all inputs and outputs (if used) using high quality cables. For best results always use pure copper cable.
- Connect all speakers using high quality speaker cable. Be sure to observe proper polarity to avoid audio phase issues.
- Recheck all connections before powering the amplifier.
- Set all level controls to minimum position and set all crossover controls/switches to the desired frequency points.
- Power up the head unit and amplifier. Set the volume control on the head unit to about ¾ the volume and adjust the amplifier input level control(s) to just below the level of distortion.
- When adjusting the amplifier, please remember, the input level control is not a volume control. It is designed to match the output level of your audio source to the input level of your amplifier.

### Fuse Recommendations:

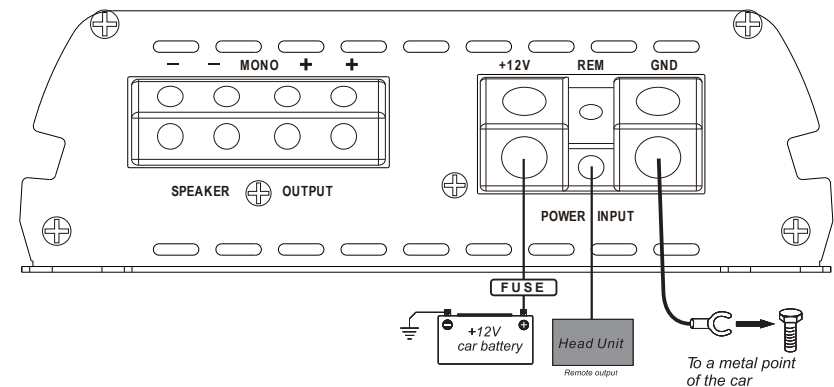
VL1000D – 20A

VL1500D – 30A

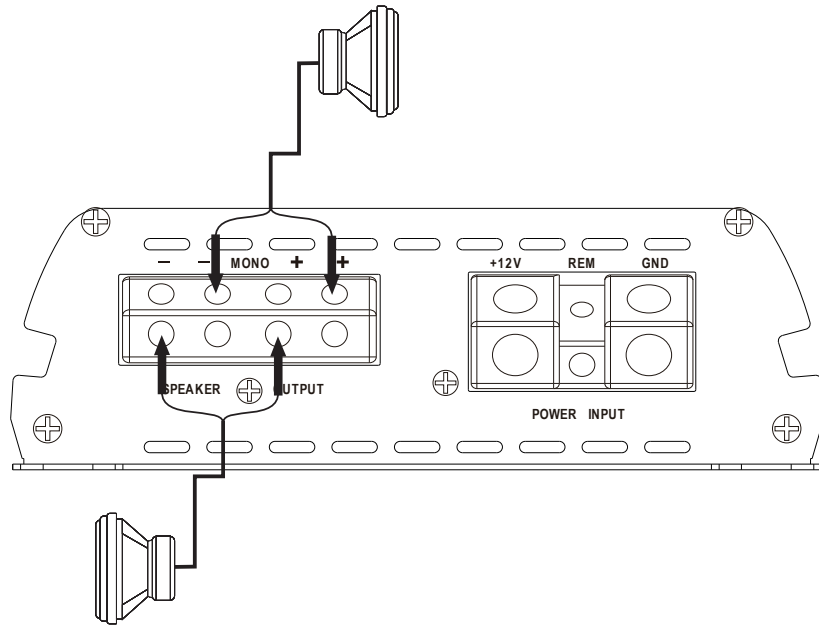
VL2000D – 50A

VL3000D – 60A

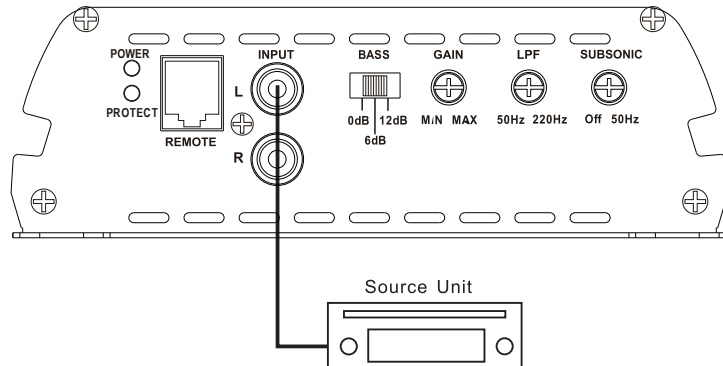
VL4000D – 90A



# ALLIANCE



**VL2000D FRONT PANEL**



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## Troubleshooting

Symptom	Possible Remedy
Amplifier Will Not Power Up	<p>Check to make sure you have a good ground connection.</p> <p>Check that there is a battery power on the (+) terminal.</p> <p>Check all fuses, replace if necessary.</p> <p>Make sure that the protection LED is not illuminated.</p>
Protection LED Comes On	<p>Check for short circuits on speaker leads.</p> <p>Check that the speaker load is not beyond the minimum load.</p> <p>Remove speaker lead and reset the amplifier. If the protection LED still comes on, then see your Authorized ALLIANCE Audio dealer.</p>
No Output	<p>Check that the RCA audio cables are plugged into the proper inputs.</p> <p>Check all speaker wiring.</p> <p>Check the head unit output and the amplifier level setting.</p>
Low Output	<p>Reset the level control.</p> <p>Check the crossover control settings.</p>
High Hiss in Speakers	<p>Check the RCA cable is not shorted to power ground at amplifier side.</p> <p>Check the amplifier grounding.</p>
Distorted Sound	<p>Check that the input level control is set to match the signal level of the head unit.</p> <p>Always try to set the input level as low as possible.</p> <p>Check that all crossover frequencies are properly set.</p> <p>Check for short circuits on the speaker leads.</p>
Amplifier Gets Very Hot	<p>Check that the minimum load impedance for the amplifier is correct.</p> <p>Check that there is good air circulation around the amplifier.</p> <p>In some cases, adding an external cooling fan may be necessary.</p> <p>Do not mount the amplifier upside down.</p>