

# AURA<sup>®</sup>

OWNER'S

MANUAL

ENG

VENOM-D2000  
VENOM-D2500  
VENOM-D3500

HIGH END MONOBLOCK POWER AMPLIFIER

WARNING!

PLEASE READ CAREFULLY BEFORE USING

# Verion





## INTRODUCTION

Congratulations and thank you for purchasing AurA VENOM series amplifiers, the logical choice in mobile audio amplification. Your amplifiers have been designed and engineered with the highest quality components and top of the line workmanship to help you reach the superior sound you are after.

To achieve optimal performance of your system, please take a few moments to read over this Owner's manual or visit authorized dealer if needed before starting your installation.

## FEATURES

- ◆STABLE INTO 1 OHM LOAD
- ◆HIGH SPEED MOSFET POWER SUPPLY
- ◆12dB/OCT VARIABLE CROSSOVER
- ◆VARIABLE LOW PASS FILTER
- ◆VARIABLE SUBSONIC FILTER
- ◆6dB / 12dB SELECTABLE BASS BOOST
- ◆REMOTE CONTROL
- ◆COMPACT DESIGN

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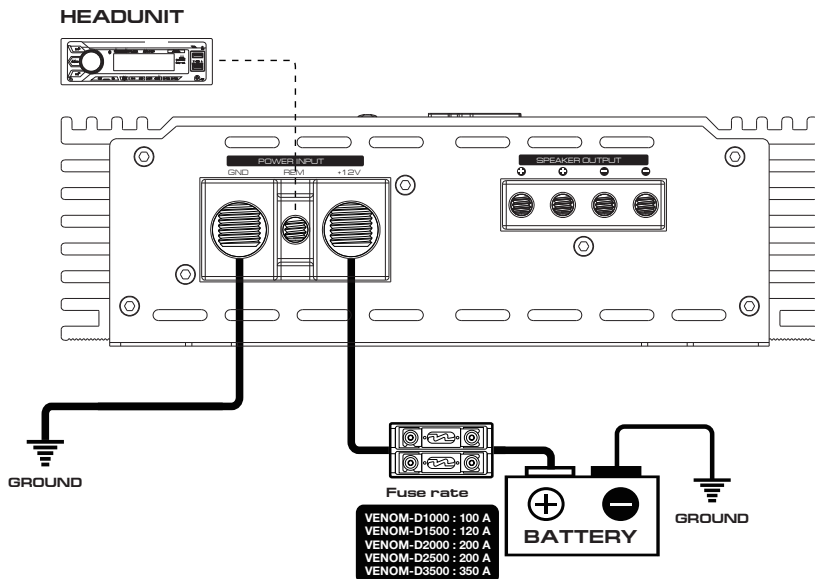
## SPECIFICATIONS

Model	VENOM-D2000	VENOM-D2500	VENOM-D3500
RMS power @ 4 ohm	750 x 1	850 W x 1	1200 W x 1
RMS power @ 2 ohm	1300 x 1	1500 W x 1	2300 W x 1
RMS power @ 1 ohm	2000 x 1	2500 W x 1	3500 W x 1
Working impedance	1 ohm stable	1 ohm stable	1 ohm stable
Input Sensitivity	6 V - 0.2 V	6 V - 0.2 V	6 V - 0.2 V
Low Pass Filter	50 Hz - 220 Hz	50 Hz - 220 Hz	35 Hz - 250 Hz
Subsonic Filter	Off - 50Hz	Off - 50Hz	10Hz - 50Hz
Bass Boost	0 - 6 - 12 dB	0 - 6 - 12 dB	0 dB - 9 dB
Frequency Response	20 Hz - 250 Hz	20 Hz - 250 Hz	20 Hz - 250 Hz
Signal to Noise Ratio	>85 dB	>85 dB	>85 dB
THD @ 4ohm	< 0.1%	< 0.1%	< 0.1%
Damping Factor	>150	>150	>200
Working voltage	9 V - 15 V	9 V - 15 V	9 V - 15 V
Fuse Rating	200 A	200 A	350 A
Dimensions ( L inches )	17.71	17.71	18.90
6.22 W x 2.15 H inches			8.27Wx2.44H

All features are subject to change in the continuing effort to improve the products without notice.



## POWER CONNECTION



### BATT (12V POWER)

Before mounting amplifiers, disconnect the negative cable from the battery to protect any accidental damage to your amplifiers and audio system.

Connect the power cables to power terminal 12V.

All AurA VENOM series amplifiers are not equipped with fuses so that external fuses should be used.

Connect one end of fuse holder to the power cable going into the amplifiers and the other end of fuse holder to positive battery. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable. Be sure to use fuses and fuse holder adequate for the application.

### GND (GROUND)

Locate a secure grounding connection as close to amplifier as possible.

Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. The ground needs to have as low of a resistance as possible.

Connect one end of a short piece of the same size cable as the power cable to the grounding point or to one of your batteries or battery bank. Run the other end of the ground cable to the mounting location of the amplifiers for connection to the amplifiers ground terminals and connect the ground cable to the GND (ground terminal).

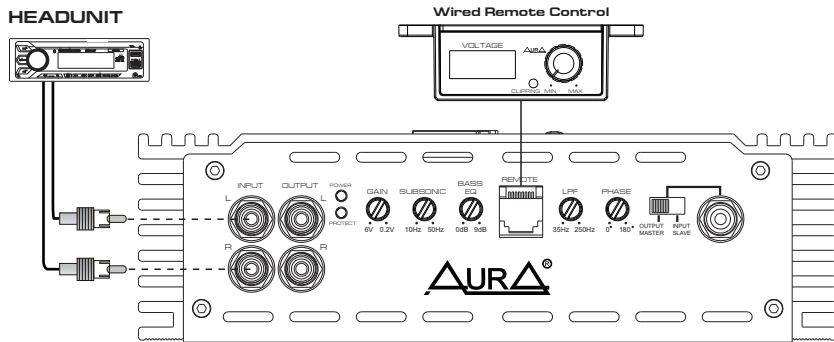
### REM (REMOTE)

Run a remote turn on cable from the switched 12V source. This may be a toggle switch,

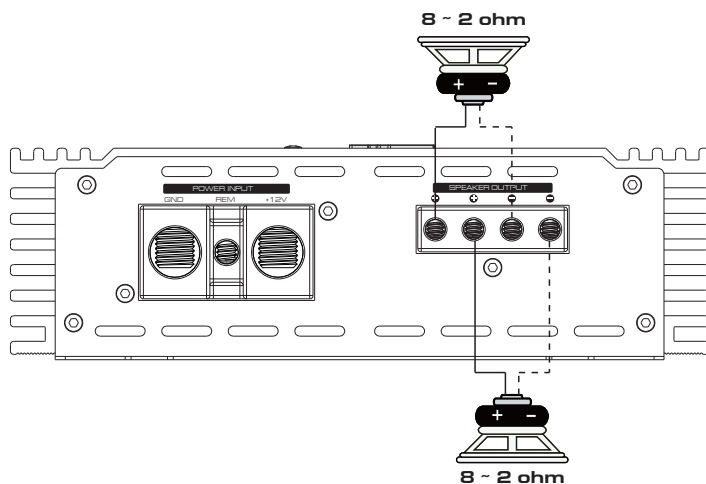
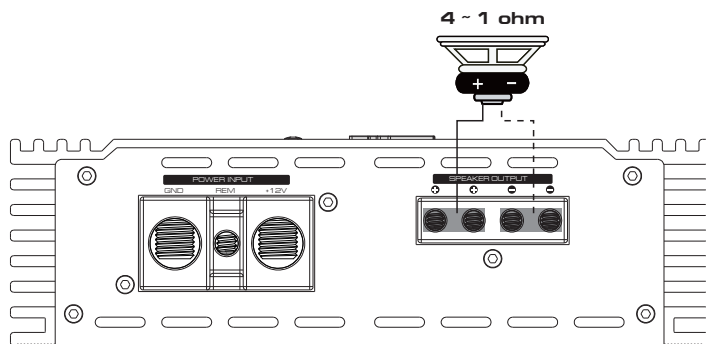
a relay, your source unit's remote trigger cables, or power antenna trigger cable. Connect the remote turn on cable to the REM (remote) terminal.



## RCA INPUT CONNECTION



## SPEAKER CONNECTION



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## MASTER / SLAVE CONNECTION

Master / slave connection makes two of same amplifiers strapped to 2 ohm.  
Master / slave connection makes the power double than their 1 ohm power.  
Please read the following connection and diagram carefully to make correct connection.

### INPUT CONNECTION:

Step 1. Connect the Master amplifier to the head-unit and set its output master / input slave switch to output master.

Step 2. Set Slave amplifier output master / input slave switch to slave input.

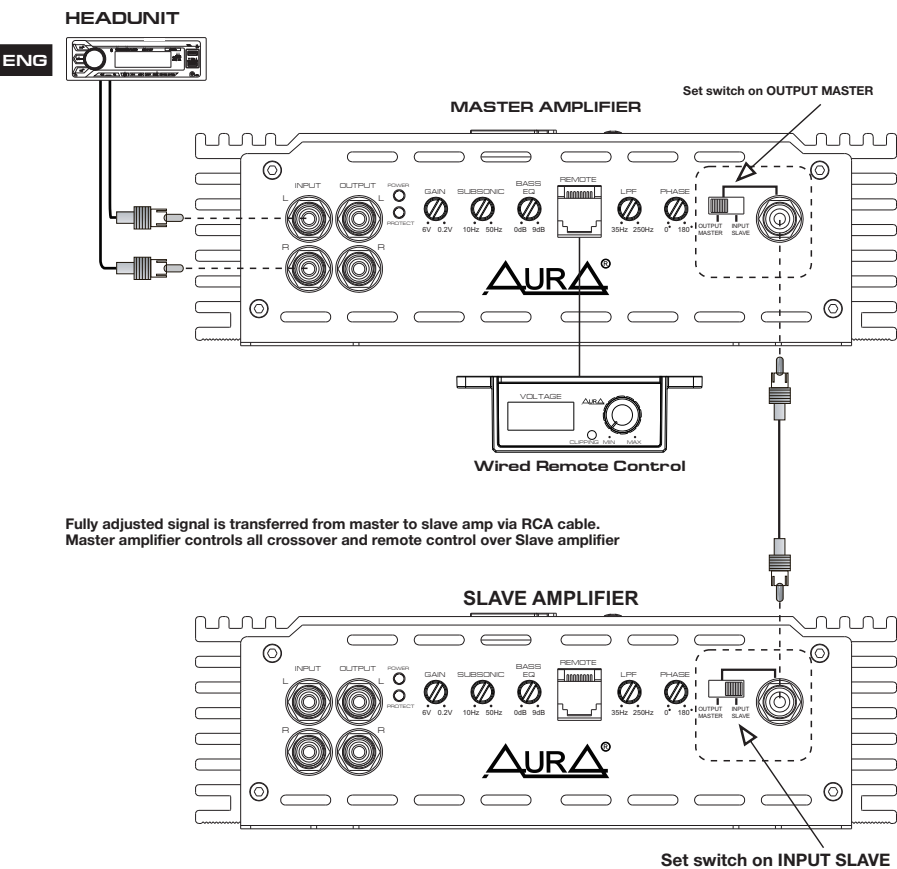
Step 3. Connect RCA cable from the master to slave amplifier as shown in the diagram.

### POWER & SPEAKER CONNECTION:

Step 1. Connect speaker cable (+) on master amplifier to subwoofer (+)

Step 2. Connect speaker cable (+) on slave amplifier to subwoofer (-)

Step 3. Connect speaker cable (-) on master amplifier to speaker cable (-) on slave amplifier







## **TROUBLE SHOOTING**

- ◆ AurA VENOM series amplifiers have protection features to prevent any damages from misuse or faulty conditions.
- ◆ If VENOM-D series amplifiers sense excessive heat, short circuited speakers DC, or voltage the protection indicator will light, and the system will be turned off.
- ◆ In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short.
- ◆ If AurA VENOM series amplifiers shuts down due to excessive heat, they will be working later when it is cooled down.
- ◆ Before removing your amplifier, refer to the list below and follow the suggested procedures.

### **NO SOUND (NO OUTPUT)**

- ◆ Please check all connections, cables' routing, short & voltage.
- ◆ Please check the fuses. If they are blown, please replace with new one.
- ◆ Please check whether speakers work well, you can test speakers by connecting to another amplifier

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### **DISTORTION & NOISE**

- ◆ Readjust input level and check the speaker quality at another amplifier. Replace poor quality speakers with good quality ones.
- ◆ Check amplifiers and headunit's ground contact. All grounds should be common.
- ◆ Check RCA cable, then replace with new one or reroute RCA cable.
- ◆ Engine noise is caused by poor grounding of amplifiers, headunit, other components, battery or alternator, so please check all grounding connection.

### **POOR BASS RESPONSE**

- ◆ Please check speaker cables and reverse polarity.



# Vernon



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