

## LIMITED WARRANTY

**OKUR** warrants any products purchased in the U.S.A. from an authorized **OKUR** dealer. All products are warranted to be free from defects in material and workmanship under normal use and service for a period of one (1) year when the unit is installed by an authorized **OKUR** dealer. Non-authorized dealer installed products carry a one (1) year parts and labor limited warranty. This warranty applies to the original purchase only.

**OKUR** will either repair or replace (as its option) any unit that had been found to be defective and under warranty provided the defect occurs within:

One (1) year, if purchased through an authorized **OKUR** dealer with original proof of purchase.

This limited warranty periods do not extend to units having been subjected to misuse, abuse, neglect, or accident. Products that in **OKUR's** judgment shows evidence of having been altered, modified, or serviced without **OKUR's** authorization, will be ineligible under this warranty.

To obtain warranty services please contact your retailer or visit our website at [www.okurelectronics.com](http://www.okurelectronics.com) for more details.



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# OKUR<sup>TM</sup>

## OA SERIES

### AMPLIFIERS

#### MONOBLOCK

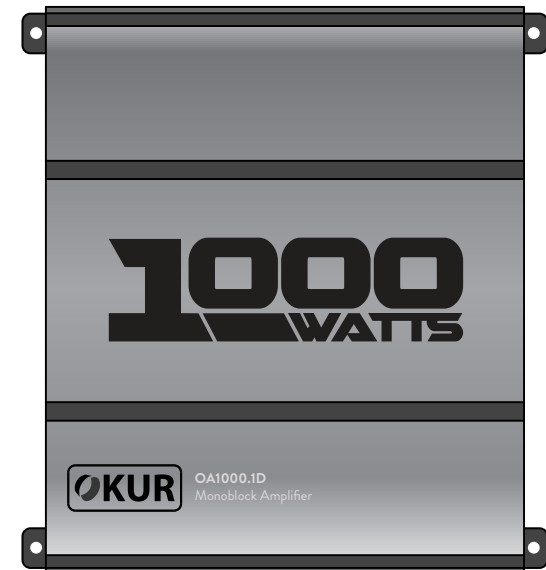
OA1500.1D, OA1000.1D

#### 2 CHANNEL

OA1200.2

#### 4 CHANNEL

OA2400.4, OA2000.4



## USER MANUAL

Installation Instructions | Owners Manual

**PLEASE READ CAREFULLY BEFORE INSTALLING  
OR OPERATING**



***Congratulations on your purchase of this OKUR Audio Amplifier.*** Your selection of a Quantum product indicates a true appreciation of fine musical reproduction. To ensure proper use of this unit, please make sure to read the owner's manual carefully before operating and keep it for future reference.

## ■ KEEP YOUR SALES RECEIPT

Take this time to attach your sales receipt to the manual and out in a safe place. In case of any unforeseen reason this product may need warranty service, your receipt will be necessary to establish purchase date.

## ■ RECOMMENDATION

An amplifiers performance is only as good as its installation. Proper installation will maximize the system's overall performance. It is recommended that you have our product installed by an authorized OKUR retailer. If you decide to install it yourself, please carefully read through this manual and take your time to do a quality installation. Due to continuing product improvements and possible manual revisions, we recommend checking our website for the latest product information at:

**[www.okurelectronics.com](http://www.okurelectronics.com)**

**IMPORTANT!** Before making any connections, disconnect the vehicle's battery until the installation is completed to avoid possible damage to the electrical system.

<b>WARNING!</b>	
<b>Exposure to high power sound system can cause hearing loss or damage. Listening to your system at loud levels while driving will impair your ability to hear traffic sounds and emergency vehicles. Use common sense when listening to your system.</b>	
Serial # _____	Model # _____





■ **DC Offset Protection**

This circuit protects the output of the amplifier against DC voltage. If for some reason DC voltage is detected at the output stage, the amplifier will shut down protecting the speakers from direct current.

■ **Short Circuit Protection**

The circuit protects the amplifier from damage due to a short found in the speakers or wiring. If one of the speakers or its wiring comes in contact with ground, the amplifier will shut down. To resume normal operation, correct the problem and turn the head unit off, then back on. The amplifier will reset and play again.

■ **Thermal Protection**

To protect the amplifier circuitry against damage caused by prolonged exposure to high temperatures, a thermal protection circuit is activated if the amplifier reaches excessively high operating temperature. Once the thermal circuit is activated, the amplifier will shut down to cool off. The amplifier will automatically turn back on once it cools down to a safe operating temperature.

■ **Power Indicator**

The diagnostic L.E.D. illuminates when the amplifier is on and receiving power.

■ **Built-in Crossover**

The OKUR **OA1200.2**, **OA2400.4** and **OA2000.4** are equipped with a built in variable crossover network allowing you to select the crossover function and frequency for each the front channels or rear channels of the amplifier independently.

The OKUR **OA1500.1D** and **OA1000.1D Monoblock Amplifiers** are equipped with a built in variable lowpass crossover network allowing you to select the crossover function and frequency for each the front channels or rear channels of the amplifier independently.

■ **Power and Speaker Distribution Blocks**

Heavy gauge bare wire distribution blocks are provided for maximum power and signal transfer with minimal resistance.

Horizontal lines for taking notes.



## ■ OA1500.1D

### Monoblock Amplifier

#### Features:

- Class D Circuitry
- 1Ω Load Mono Capability
- Audiophile Grade Components
- Variable Low Pass Crossover
- High Efficiency Mosfet Design
- Heat Management System
- Bass Remote Included
- Buffered RCA output
- Low level RCA inputs

#### Specifications:

## ■ OA1500.1D

### Monoblock Amplifier

Rated Power:	1 x 1500 W @ 1Ω Mono
Rated Power:	1 x 750 W @ 2Ω Mono
Rated Power:	1 x 375 W @ 4Ω Mono
THD at Rated Power:	>0.5%
Bandwidth:	(-3 dB) - 18Hz - 250Hz
Damping Factor:	(1k Hz @ 4Ω) - 126
Signal to Noise Ratio:	>90dB
Input Sensitivity:	200Mv - 6V
Minimum Load Impedance:	1Ω Stereo
Phase Shift Selector:	0-180°
Mono Low Pass Filter Slope:	12dB
Low Pass filter range:	30 Hz - 250 Hz
Sub- Sonic Filter Range:	10 Hz - 50 Hz
Selectable Bass Boost @45 Hz:	0-12 dB

## ■ OA1000.1D

### Monoblock Amplifier

#### Features:

- Class D Circuitry
- 2Ω Load Mono Capability
- Audiophile Grade Components
- Variable Low Pass Crossover
- High Efficiency Mosfet Design
- Heat Management System
- Bass Remote Included

## ■ OA1000.1D

### Monoblock Amplifier

Rated Power:	1 x 1000 W @ 2Ω Mono
Rated Power:	1 x 500 W @ 4Ω Mono
Rated Power:	1 x 250 W @ 4Ω Mono
THD at Rated Power:	>0.5%
Bandwidth:	(-3 dB) - 18Hz - 250Hz
Damping Factor:	(1k Hz @ 4Ω) - 126
Signal to Noise Ratio:	>90dB
Input Sensitivity:	6V - 0.2V
Minimum Load Impedance:	2Ω
Phase Shift Selector:	0-180°
Mono Low Pass Filter Slope:	12dB
Low Pass filter range:	40 Hz - 300 Hz
Sub- Sonic Filter Range:	10 Hz - 40 Hz
Selectable Bass Boost @45 Hz:	0-12 dB

Full range line outputs have been provided for convenient connection to additional amplifiers in the system. The outputs are buffered to reduce signal loss.

## ■ POWER FUSING

This protects the amplifier against short circuits and excessive current.

## ■ REMOTE TURN- ON

Automatically turns amplifier on when connected to the head unit's remote output. amplifier will turn on and off with the head unit to save current consumption. This control also operates the reset circuit for the amplifier's protection. It must be connected with the head unit in order to reset protection circuits.

## ■ ADJUSTABLE INPUT SENSITIVITY

Allows you to fine-tune the level matching between your source and the power amplifier.

## LOW IMPEDANCE STABILITY

4 CHANNEL STEREO AMPLIFIERS	HEIGHT	WIDTH	LENGTH
<b>OA2400.2 2Ω STEREO</b>	2.04" / 52 mm	9.33" / 237.38 mm	11.73" / 298 mm
<b>OA2000.4 2Ω STEREO</b>	2.04" / 52 mm	9.33" / 237.38 mm	10.82" / 275 mm
2 CHANNEL STEREO AMPLIFIER			
<b>OA1200.2 2Ω STEREO</b>	2.04" / 52 mm	9.33" / 237.38 mm	7" / 179 mm
MONOBLOCK AMPLIFIERS			
<b>OA1500.1D 1Ω MONO</b>	2.04" / 52 mm	9.33" / 237.38 mm	10.82" / 275 mm
<b>OA1000.1D 2Ω MONO</b>	2.04" / 52 mm	9.33" / 237.38 mm	7.87" / 200 mm



OA2400.4, OA2000.4

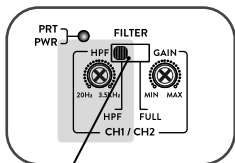
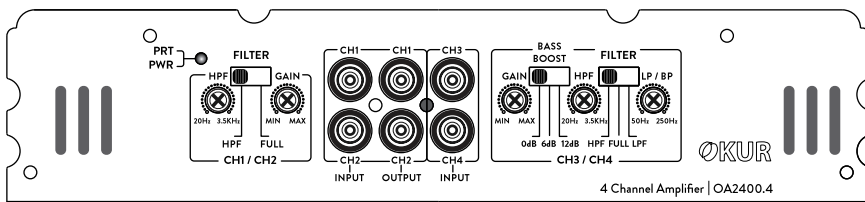
The OA2400.4 and OA2000.4 amplifier allow you to select the crossover mode (High-Pass, Full Range or Low Pass / Band Pass) and desired crossover point for channels 1-2 and 3-4.

For example if you wish to use a 2-way loud speaker on channels 1-2, simply set the crossover switch to HPF and adjust the frequency setting to the desired HPF setting to block out any unwanted low frequencies.

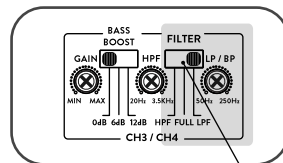
If you wish to run a subwoofer on channels 3-4, simply set the crossover switch to LP/BP. You must adjust the HPF Frequency setting to 50 Hz and the LPF Frequency setting to the desired Low Pass setting to block out unwanted high frequencies.

If you wish to run a component midrange on either channels 1-2 or 3-4 set the crossover switch to LP/BP. Then use both HPF and LPF frequency controls to create the desired band pass frequency range.

THESE SETTING CAN BE USE ON CHANNELS 1-2 OR 3-4 INDEPENDENTLY OR FOR ALL CHANNELS



Adjust HP to desired frequency



Adjust LP to desired frequency

OA2400.4 | OA2000.4 | OA1200.2

Features:

- Class A/B Circuitry
2 Ohm Load Stereo Capability
Low level RCA inputs
Selectable HP/LP \*2 Channel / Selectable HP/LP/BP \*4 Channel
High Efficiency Mosfet Design
Heat Management System
Bridgeable outputs @4 Ohm load

Specifications:

OA2000.4

OA2400.4

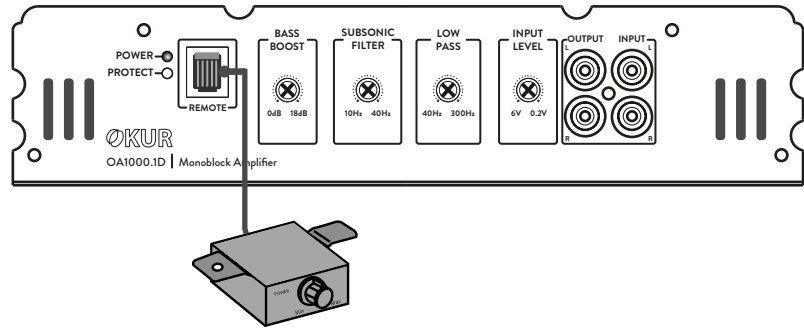
Table comparing specifications for OA2000.4 and OA2400.4 models, including Rated Power, THD, Bandwidth, and Input Sensitivity.

Specifications:

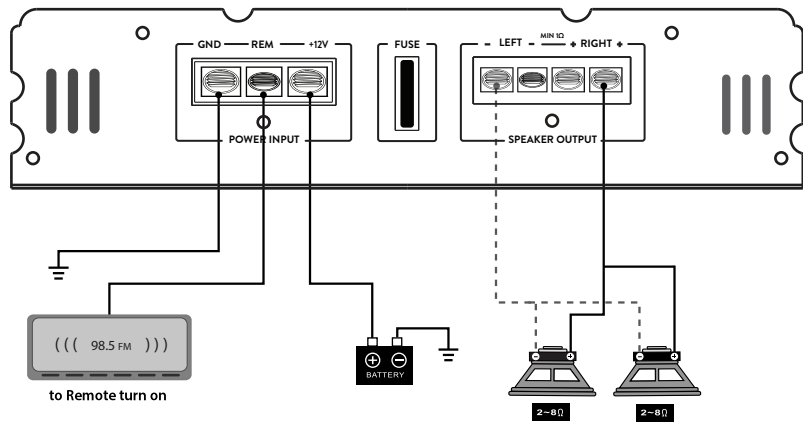
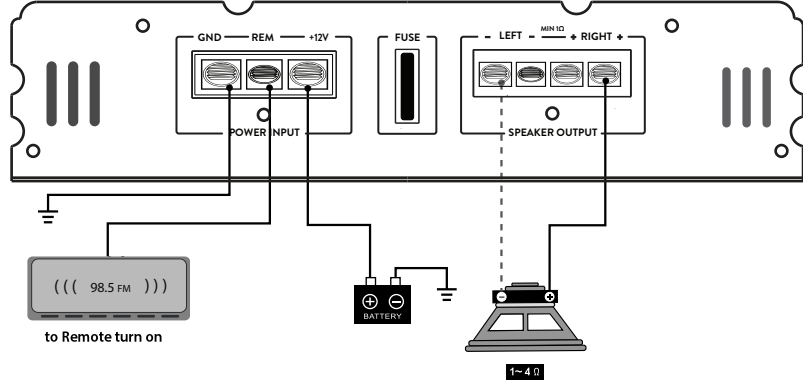
OA1200.2

Table comparing specifications for OA1200.2 model, including Rated Power, THD, Bandwidth, and Input Sensitivity.

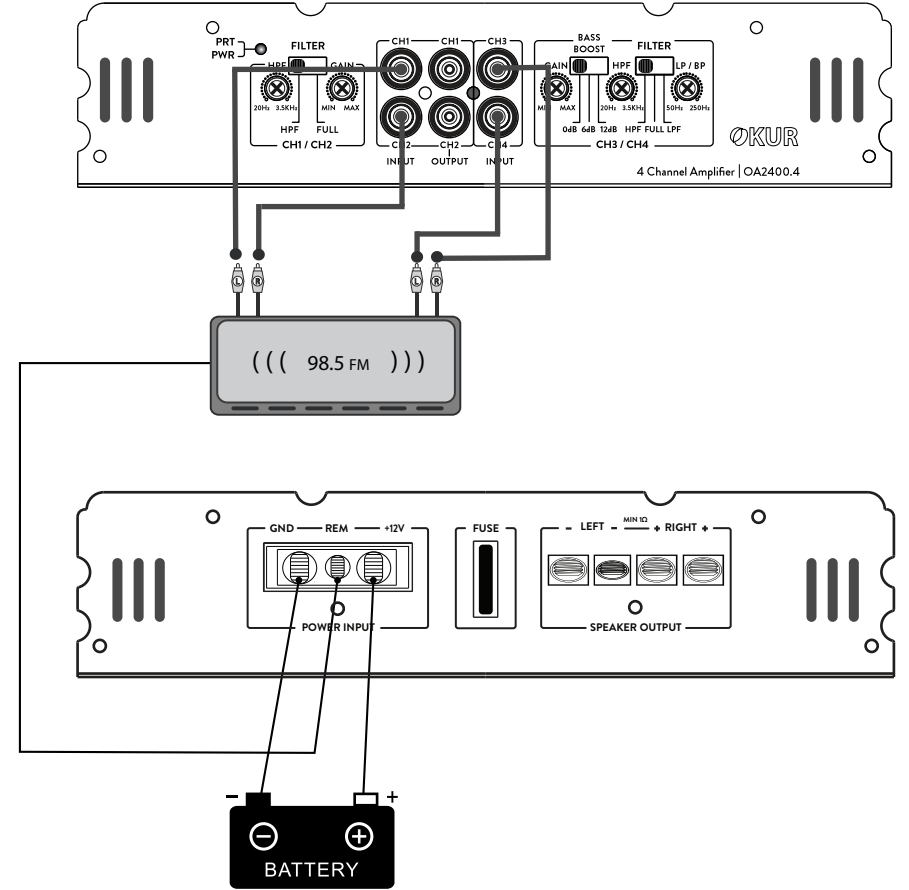
■ SINGLE AMP INPUT CONNECTION



■ SPEAKERS CONNECTIONS



■ Power Connection Leads



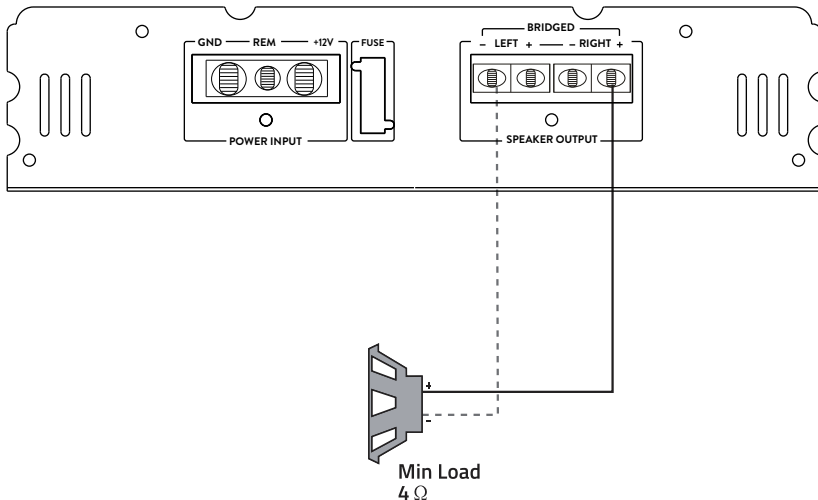
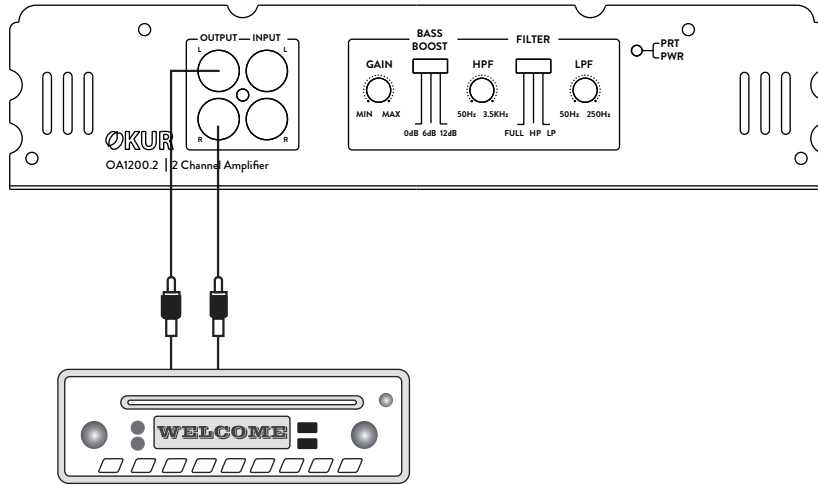
■ Notes on the Power Supply

Connect the +12V power input lead only after all other leads have been connected. Be sure to connect the ground wire of the unit securely to a metal part of the car. A loose connection may cause a malfunction of the amplifier.

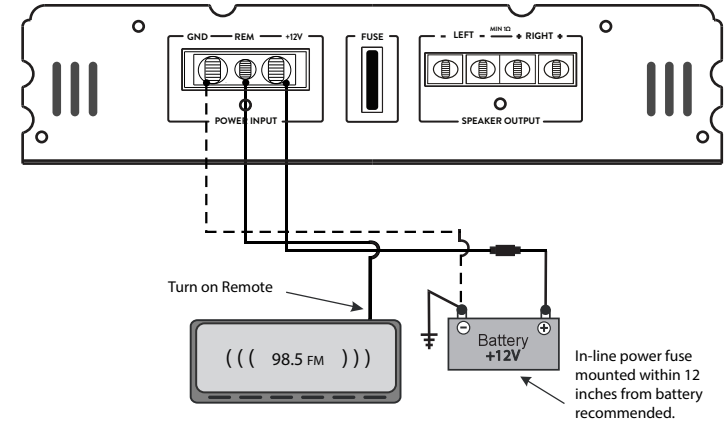
**REMOTE:** The unit is turned on by applying +12Volts to this terminal. This terminal does not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard color is yellow. If the power antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio. Use the power supply lead with a fuse attached whose value is the same as original fuse. Place the fuse in the power supply lead as close as possible to the car battery.

During a full power operation. Maximum current will run through the system. Therefore, Make sure that the leads to be connected to the +12V and GND terminals of the unit respectively must be larger than 10-Gauge (AWG 10)

■ Bridged



■ Power Connections



**IMPORTANT!** Before making any connections, disconnect the car's battery until the installation is completed to avoid possible damage to the electrical system.

It is important that you read this manual very carefully and follow it for your installation carefully. Before you start your installation, please consider following concerns.

1. Disconnect the negative (-) battery cable before mounting the amplifier. Check the battery and alternator ground (-) connections. Make sure they are properly connected and free of corrosion.
2. Before selecting a mounting location for amplifier, please take some concerns into consideration with cooling efficiency and safety.
3. Power connection  
Before installing amplifier, disconnect the negative (-) wire from battery to protect any accidental damage to your amplifier and System. This Amplifier is designed to use 4 AWG POWER and GROUND cables.
4. Ground connection  
Locate a secure grounding connection as close to the amplifier as possible. Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. Connect one end of a short piece of the same size cables as the power cable to the grounding point. Run the other end of the cable to the amplifier mounting location. Connecting the ground cable to the screw terminal labeled as GND.
5. Remote connection  
Run a remote turn on cable from the switched +12V source you will be using to turn on the system components. This may be a toggle switch, a relay, or your source unit's remote trigger wire, or power antenna trigger wire. Connect the remote turn on cable to the power terminal labeled as REM. Run this lead to the amplifier mounting location. Using 16AWG wire or larger.

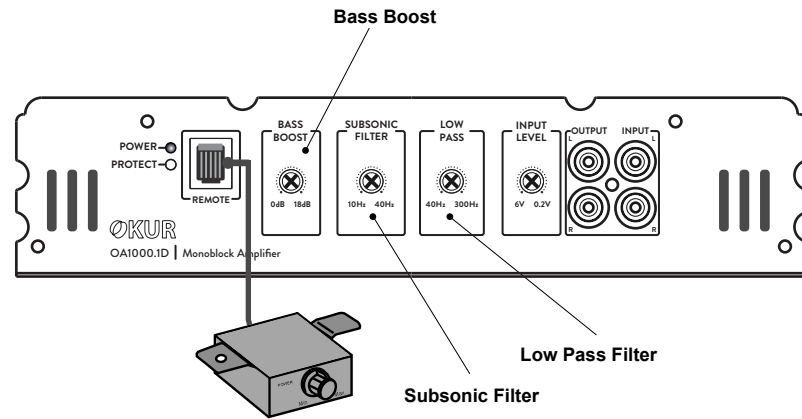


**■ Built - In - Crossover**  
**OA1500.1D / OA1000.1D**

The OKUR Mono Amplifiers are equipped with a 24dB per octave variable Low Pass crossover.

They also feature a variable Sub Sonic filter between 10Hz - 40Hz to protect your subwoofers from ultra low frequencies when using vented enclosures.

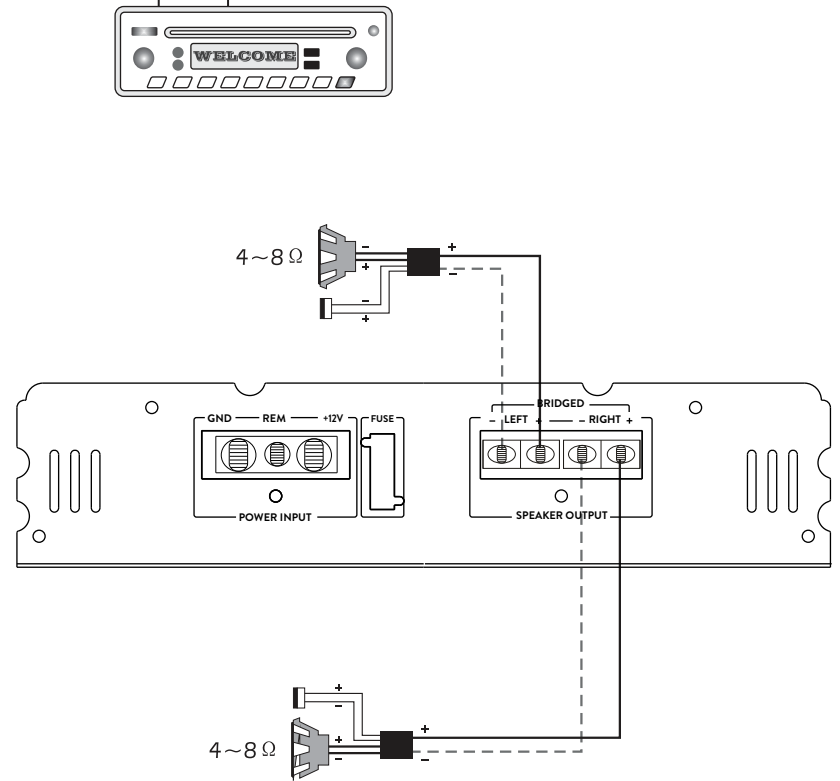
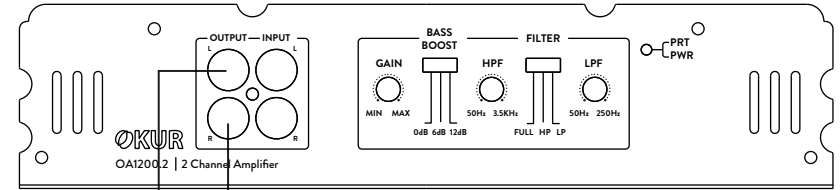
A Variable Bass Boost is available to tune your subwoofer enclosure.



**FUSE RATINGS**

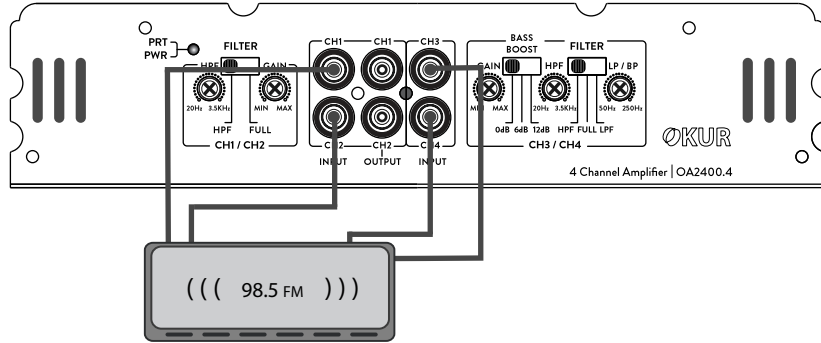
- OA1500.1 - 2 x 30A**
- OA1000.1 - 1 x 25A**
- OA2400.4 - 1 x 30A**
- OA2000.4 - 2 x 30A**
- OA1200.2 - 1 x 25A**

**■ Stereo**

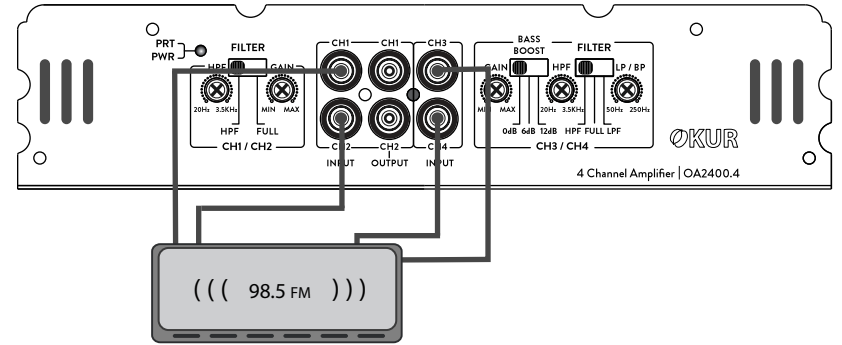




■ System 1: 4 Channel Model



■ System 2: Bridged / Stereo Connection Subwoofer  
OA2400.4 & OA2000.4



■ Subwoofer Connection

