



Installation Manual



A2150 2 Channel Amplifier



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Introduction

Thank you for purchasing the A2150 2 Channel Amplifier. At Origin Acoustics, we take pride in providing you with a high quality product. All of Origin Acoustics' speakers are designed to have excellent sound quality, longevity, and a simple installation process.

This instruction booklet covers the necessary information for a smooth installation of your amplifier, including: what's included in the box for this product, the tools you will need, step-by-step instructions for installation, troubleshooting tips for any errors that may occur, and all warranty information. If for any reason you experience problems or if you have installation questions please call us at (844) 674-4461. Hours of operation are 8:00am to 5:00pm (Pacific Time), Monday through Friday.

Installation Requirements and Recommendations

What's included

- Amplifier
- Mounting plates (x2)
- Removable feet
- Power cable

Wire Length		Recommended Gauge
Feet	Meter	
0-100	0-30	16
50-150	15-45	14
100+	30+	12

Speaker Wire Recommendations

For this setup, use a multi-stranded wiring designed for amplifier to speaker connections. The gauge of wire used can have an impact on the performance of your speakers and we would recommend that you choose the largest wire size that is practical for your installation. Which gauge to select depends on the length of wire to be used on any particular speaker. In general the shorter the run the smaller the wire size you can use, however you can never go wrong by using a thicker gauge.

About Speaker Wire

You will need a wire that has at least two conductors; one that can be identified as the positive and the other as the negative. All two conductor wires have some means of identifying which conductor is which, but at times this identification may be subtle. It's crucial that you keep track of which wire you use for positive (+) and negative (-). Typically if the wires are colored red and black, the red wire is used for positive and the black wire is used for negative, but sometimes other colors or patterns are used. You can choose whichever color of wire you want to be positive and negative as long as you remain consistent throughout the install.

On both your amplifier and your speaker the connectors will be identified as red for positive and black for negative. It is very important to look carefully at the speaker wires and be certain that the same wire that is attached to the positive connector in the amplifier is attached to the positive connector in the speaker.



Setup

Rack Mounting

The unit comes with two mounting plates that can be used to install it in a rack. The feet can also be removed.

Individually Protected Circuitry

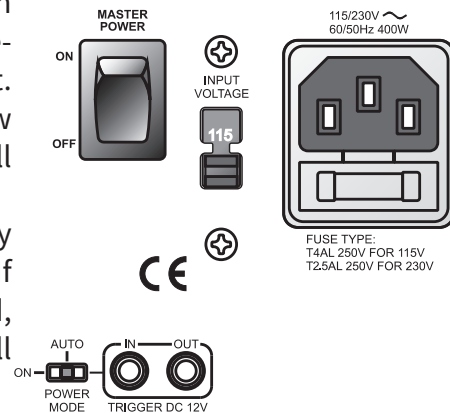
Each channel is individually protected in case of a short. This way, if one channel stops working, the other channel will still continue to function normally. There are 2 LED lights on the front of the amplifier that indicate the status of each channel. If an LED light is blue, that means the channel is functioning normally. If it's red, that means there's an issue and may require attention. And if the light is off, then that channel isn't currently functioning or in use.

Power

Power mode switch and 12V Trigger IN/OUT

The power mode switch has three settings:

- **12V:** Amplifier turns on when Trigger input is at 12V
- **AUDIO:** Amplifier turns on when audio signal is received through any input. If there is no input for a few minutes, the amplifier will go into standby mode.
- **ON:** Power is controlled by the front power button. (If another mode is selected, the front power button will be inoperative.)



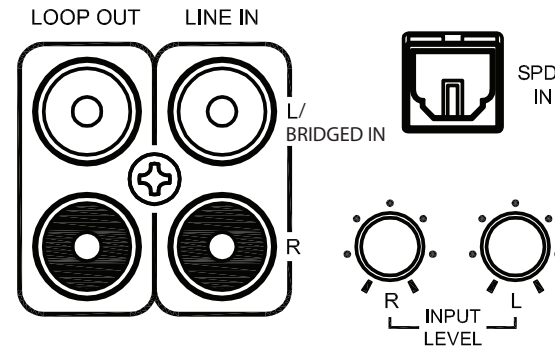
Input

LINE IN

Basic input for channels 1 and 2 (left and right). If you would like to use an S/PDIF cable, it can be connected in the SPDIF INPUT.

LOOP OUT

If you need sound through more speakers than this amplifier can support, you can use the "LOOP OUT" output to connect a second amplifier.



INPUT LEVEL

The maximum gain can be set for each channel.

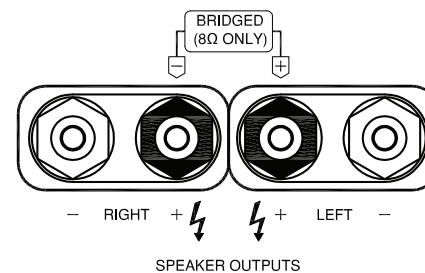
Output

SPEAKER OUTPUTS

Connect the speakers to the outputs as labeled. (Be careful not to switch the positive and negative connections.)

BRIDGED Output

In some setups you may want to power a speaker by combining the two outputs. To do this, first unplug the power cable. Set the bridge switch to "BRIDGED". Connect the speaker wires to the outputs labeled BRIDGED. (Be careful not to switch the positive and negative connections.) Connect the source output to the white LINE IN input.





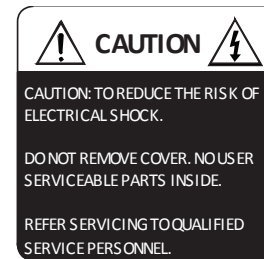
Important Safety Instructions

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is

required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.
- This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).



The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Specifications

Continuous Power Both Channels Driven	150 watts RMS at 4 ohms, 95 watts RMS at 8 ohms
Bridged Power Output Both Channels Driven	280 Watts per channel RMS at 8 ohms (Note: Maintain 8 ohm minimum when using bridge mode)
Input Sensitivity	1000mV
Input Impedance	20,000 ohms
12 Volt Trigger Input	12V DC; 10K Ohms
12 Volt Trigger Output	12V DC; 10mA
S/N ratio	95 dB
Frequency Response	20 Hz to 20 kHz
Distortion (Un-bridged)	0.1% THD 20 Hz-20 kHz
Distortion (Bridged)	0.1% THD 20 Hz-20 kHz
Dimensions	17.7"W x 3.5"H x 13.4"D (450W x 89H x 340D mm)
Weight	13.1 lb (5.94 kg)
Certification	Meets FCC Part 15, ETL Listed and tested under UL/EN60065

Troubleshooting

If possible, it's often good to try to isolate the problem first. For example, if you're playing a DVD on a television and there's no sound, try connecting an MP3 player to the system to see if that works. If it does work, then the problem is with the television, DVD player, or the cables connecting them. If it doesn't work, the problem will be with the amplifier, speakers, or those cables.

Problem	Possible Cause
No Sound	The volume may be turned down or muted. Check the volume settings on both the amplifier and the television/computer/CD player/etc.
	Make sure the proper source is selected on the amplifier or receiver.
	Check the cord connecting the amplifier with the source. The cord may be damaged or plugged into the wrong input or output.
	Check the wires connecting the amplifier with the speakers. Make sure they're connected properly and not damaged in any way.
Poor Sound Quality	If you hear something like static, or the sound is cutting in and out, check the audio cables. If the problem increases when a cable is being moved, then the cable is most likely faulty or not connected properly.
	Today's audio systems may have several places to adjust the volume, for example your MP3 player may have a volume control, and your amplifier may also have one. Check to be certain that the volume isn't turned up past 80% on any device.
	Try changing sources to be certain that the selection you've chosen is a good quality recording.



Technical Assistance

If you have any questions or concerns about installing or using this product, you can reach us through one of the following methods:

Phone: (844) 674-4461

Hours of operation: 8:00am - 5:00pm (Pacific Time), Mon - Fri

Email: techsupport@originacoustics.com

If you are having technical trouble, please include the model number and briefly explain what steps you took to resolve the problem in your email, or be prepared to answer these questions over the phone. If you are considering returning the product, it's required that you contact Origin Acoustics prior to any return attempts. This way we can determine if the issue can be resolved without returning the product, or if needed we can provide instructions and support for the return process.

Warranty

Two-Year Warranty

Origin Acoustics warrants to the original retail purchaser only that this Origin Acoustics product will be free from defects in materials and workmanship, provided the speaker was purchased from an Origin Acoustics authorized dealer.

If the product is determined to be defective, it will be repaired or replaced at Origin Acoustics' discretion. If the product must be replaced yet it is no longer manufactured, it will be replaced with a model of equal to or greater value that is the most similar to the original. If this is the case, installing the replacement model may require mounting modifications; Origin Acoustics will not be responsible for any such related costs.

Requirements and Warranty Coverage

This warranty may not be valid if the product was purchased through an unauthorized dealer. This warranty only applies to the individual that made the original purchase, and it cannot be applied to other purchases. The purchaser must be prepared to provide proof of purchase (receipt). This warranty will not be valid if the identifying number or serial number has been removed, defaced, or altered.

This warranty does not cover the following:

- Accidental damage
- Damage caused by abuse or misuse
- Damage caused by attempted repairs/modifications by anyone other than Origin Acoustics or an authorized dealer
- Damage caused by improper installation
- Normal wear, maintenance, and environmental issues
- Damage caused by voltage inputs in excess of the rated maximum of the unit
- Damage inflicted during the return shipment

Return Process

Before making any return attempts, it is required that you first contact Origin Acoustics. Return product to Origin Acoustics or your dealer, either in person or by mail. It's preferable if the product is returned in the original packaging. If this isn't possible, the customer is responsible for insuring the shipment for the full value of the product.

This warranty is in lieu of all other expressed or implied warranties. Some states do not allow limitations on implied warranties, so this may not apply depending on the customer's location. (For more information, see Magnuson-Moss Warranty Act.)

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