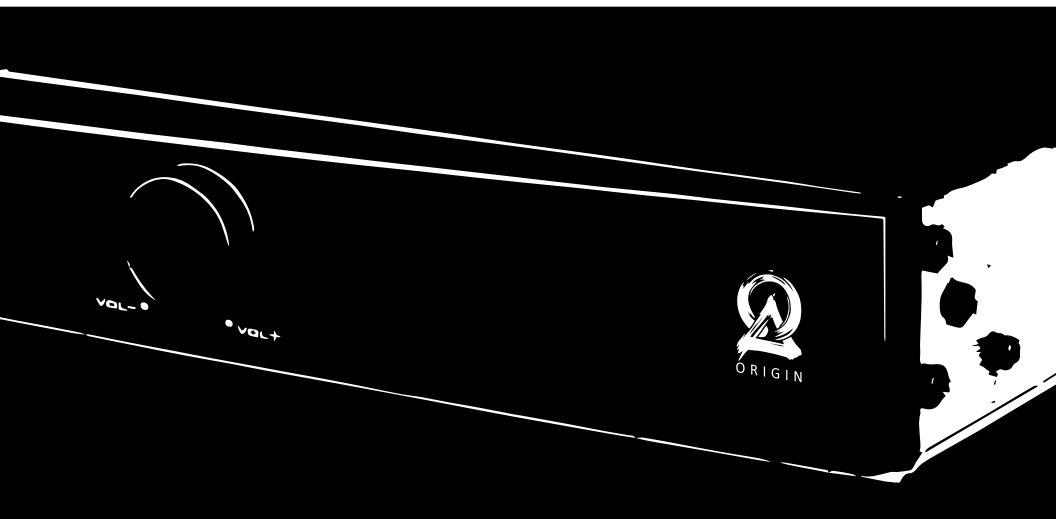




Installation Manual



SUBA150 Subwoofer Amplifier



Introduction

Congratulations and thank you for purchasing the SUBA150 class D amplifier. This amplifier is designed as a stand alone compact amplifier that allows custom home installation to have a powerful high efficiency amplifications while fitting in small places. The SUBA150 comes with a set of standard ears that allow the user to install it in a standard single rack mount. Whether you are looking to power a subwoofer or a tactile transducer, the SUBA150 is guaranteed to deliver.

The SUBA150 is powered by a switching regulated power supply PWM. It delivers a steady and regulated output, delivering a linear amplification to your load. Only through linear amplification do you get the chance to deliver accuracy in amplifications.

The amplifier possesses an efficient switching power supply with stability at 8 and 4 ohms. These amplifiers will deliver clean accurate sound with massive damping factor.

Table of Contents

Introduction.....	1
Getting Started.....	2
Specifications.....	3
Crossover Setting.....	4
Driving A Subwoofer.....	4
SUBA150 Phase Setting.....	5
Troubleshooting.....	6
Technical Assistance.....	7
Warranty.....	8
Two-Year Warranty.....	8
Requirements and Warranty Coverage.....	9
Return Process.....	9



Getting Started

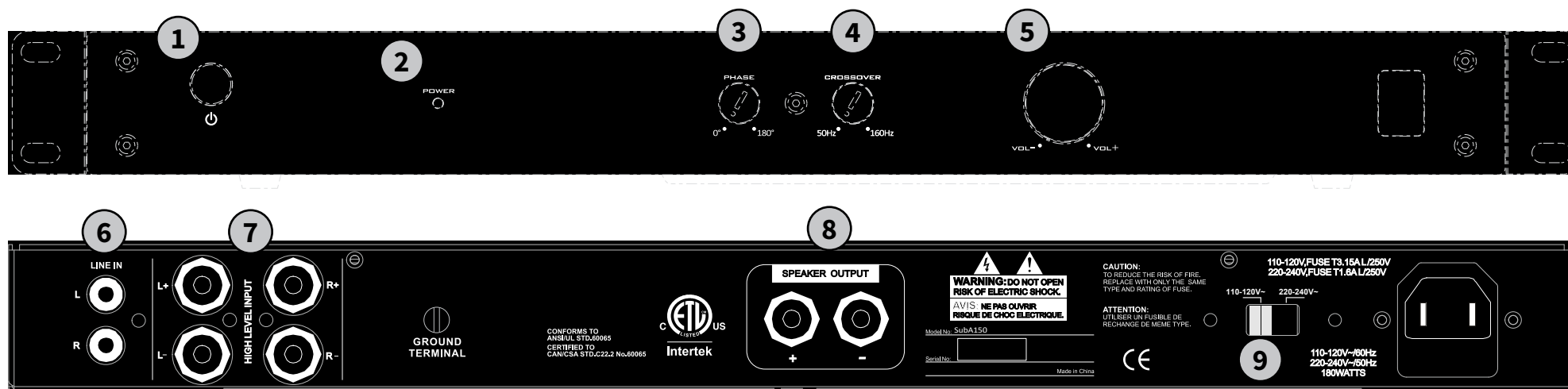
WARNING

PLEASE READ THIS MANUAL BEFORE ATTEMPTING INSTALLATION

1. Audio sensing setting
2. Red = Amplifier is in auto mode
Green = Amplifier sensing signal: amplifier is on
3. Set with an SPL meter. See page 5
4. Set based on your application. See page 4
5. RCA input from a processor LFE
6. Set based on your input level and power rating of your load
7. High level input. 100 WRMS limit from receiver output
8. Amplified output to your subwoofer or your tactile
9. YOU MUST SET TO YOUR LOCAL POWER GRID LEVEL. NORMALLY SHIPPED @ 110VAC

Specifications

Frequency Response	28Hz 175Hz
Power Line Voltage	110-120C~60Hz / 180 WATTS
Dimensions (HxWxD)	2" X 9" X 9"
Weight	4.5 Lbs
Finish	Black
Input Sensitivity For Full Output	240mVrms from left input with volume control at 0dB, 90mVrms with volume control fully clockwise.
Input Impedance	8.2 kilo-Ohm Line-level inputs, 32-Ohm Speaker-level inputs
Internal System Gain	42dB from left input jack to speaker with the Bass Level control at 0dB , 54dB with the control fully clockwise.
Output Power into 4 ohm load 280 WRMS	
Output Power into 8 ohm load 140 WRMS	



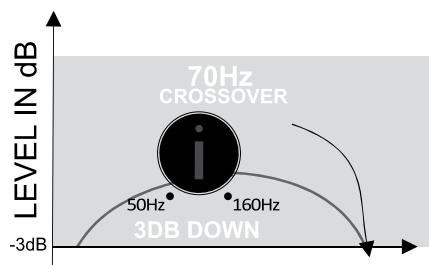


Crossover Setting

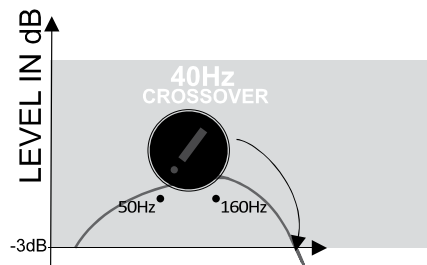
Listed below are crossover settings in a clock like images. Each setting shows the frequency response, 3dB down (half level) and system recommendation for each setting.

Driving A Subwoofer

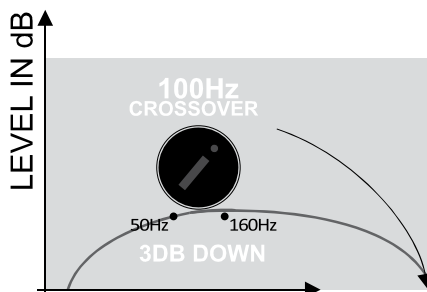
If you are using the SubA-150 to drive a subwoofer, then you will need to set the crossover below 100Hz. If you have a large subwoofer such as 12" or 15" or even 18", then you will have a great response with the crossover set to 12 o'clock setting or minimum setting. For use with a 10" or 8" subwoofer, you will find 12 o'clock and 2 o'clock setting to be the best range.



Please use this setting if connecting to a tactile transducer, a large subwoofer and small front speakers.



Please use this setting if connecting to a tactile transducer, large subwoofer and large front speakers.



Please use this setting if connecting to a small subwoofer and small speakers.

SUBA150 Phase Setting

If you are using the SubA-150 to power a subwoofer, you will need to set the time of arrival of your subwoofer frequencies with that of your tower speakers. To do that with high accuracy, you will need to have an SPL meter. There are many suppliers with such device. RadioShack has one that works just fine. To set the phase, you will need to send a continuous tone signal through the front speakers and the subwoofer at the same time, rotate the phase to zero setting and place the meter in the listening position. While the system is playing white noise or 50-Hz tone, have someone read the meter. Then, rotate the phase knob until the meter reads the highest reading. This will conclude the setting. Document the position of your optimum phase and save it for future references.



Troubleshooting

Symptom	Possible cause	Remedy
Sound is out	Amplifier(s) is not connected to AC	Check out amplifier's power cord is well connected to live AC outlet
	The subwoofer speaker(s) is not connected to amplifier(s) correctly	Check all the speaker wires are connected to amplifier's speaker terminals
	Amplifier's fuse may blow out	Turn the amplifier's power off first, and check the fuse is still in good condition; If fuse is broken and you have no spare one, find your dealer for the replacement)
	Amplifier does not receive audio signal from source	Make sure the audio cable(s) is connected and the cable is good
Bad sound performance	Bad audio cable	Check out all the audio cables to make sure the cables are good and connecting are good as well
	The subwoofer speaker is bad	Replace the bad subwoofer with a good one, to verify if speaker itself is the cause
	The polarity of speaker wire is reversed	Check the polarity (+ / -) are right, and correct them if they are wrongly connected
	Improper setting of crossover, or has chosen the wrong mode	Try different crossover mode or setting for the best result

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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