ORIGIN ACOUSTICS

ROCK LOUDSPEAKERS

OUTDOOR COLLECTION • INSTALLATION MANUAL

OSR85

OSR65

OSR8SUB

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ORIGIN ACOUSTICS®

1. Introduction

Thank you for purchasing the Rock Loudspeaker. This speaker is perfect for lawns, gardens, patios, decks or any other place where exposure to the elements makes conventional loudspeaker usage unsuitable.

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, including: 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 (PacificTime), Monday through Friday.

2. Specifications

OSR85

Part: OSR8500

Woofer: 8” Injection Polypropylene
with Rubber Surround
Tweeter: 1” Titanium
Power RMS: 50 Watts
Power Peak: 100 Watts
Frequency Response: 40Hz – 20kHz
Impedance: 8 Ω | 70V – 60W / 30W / 15W / 7.5W
Transformer Taps
Dimensions: 15 x 21 x 16” (38 x 52 x 39 cm)
Weight: 11 lbs (5 kg)
Environment Temp: -13°F - 149°F (-25°C - 65°C

OSR65

Part: OSR6500

Woofer: 6” Injection Polypropylene
with Rubber Surround
Tweeter: 1” Titanium
Power RMS: 50 Watts
Power Peak: 100 Watts
Frequency Response: 50Hz – 20kHz
Impedance:8 Ω | 70V – 30W / 15W / 7.5W / 3.7W
Transformer Taps
Dimensions: 12 x 17 x 14” (29 x 43 x 35 cm)
Weight: 11 lbs (5 kg)
Environment Temp: -13°F - 149°F (-25°C - 65°C

OSR8SUB

Part: OSR800SUB

Woofer: 8” Injection Polypropylene
with Rubber Surround
Power RMS: 60 Watts
Power Peak: 120 Watts
Frequency Response: 35Hz –150kHz
Impedance: 8 Ω | 70V – 30W / 15W / 7.5W / 3.7W
Transformer Taps
Dimensions: 15 x 21 x 16”
(38 x 52 x 39 cm)
Weight: 22 lbs (10 kg)
Environment Temp: -13°F - 149°F (-25°C - 65°C

***All product information are subject to change. Please refer to the dealer portal for the latest information.**

3. Included Items

Speaker

Wire Nuts (1 Pair)

Quick Start Guide

4. Recommended Tools

- Trench Spade/Shovel
- Measuring Tape
- Speaker Wire/Direct Burial wire
- Wire Stripper
- Wire Nuts (Included)

5. 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. If the negative and positive wires are switched, speaker performance will be drastically impacted.

6. Wire Recommendation

It is recommended to use Direct Burial Grade wire. Standard speaker wire can be used, however it must be buried in PVC conduit. Wire used for low voltage applications is not suited for this application. Splices should be made inside a watertight direct burial box or the conduit
The gauge of wire used can have an impact on the performance of your speakers. Use a multi-stranded wiring designed for amplifier to speaker connections. Which gauge to select depends on the length of wire to be used on any particular speaker. The longer your run is, the larger your wire size must be.

Wire Length	**Wire Gauge**
0 -100' (0 - 30m)	16
50 - 150' (15 - 45m)	14
Over 100' (30m)	12

7. 70V / 8 Ω System Design

70-Volt systems are advantageous when the design calls for multiple speakers from the same amplifier and/or long-distance wire runs. The 70V/8 ohm Rock Collection speakers feature multiple taps off the transformer adjusted by a rotary switch on the bottom side of the speaker. The higher the wattage selected the more output will be generated by the speaker.

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The switch can be rotated to adjust to the following settings:

Model	Position	1	2	3	4	5
OSR65	70v	3.7W	7.5W	15W	30W	8 Ω
OSR85	70V	7.5W	15W	30W	60W	8 Ω
OSR8SUB	70V	15W	30W	60W	120W	8 Ω

A simple calculation is used to determine how many speakers can be driven on a single amplifier channel. First, for safety purposes, it is recommended to make the calculations based on 80% of the amplifiers rated power. For example, a 500-watt amplifier would safely deliver 400 watts of usable power (500 x 0.8 = 400). Now it is simply a matter of dividing 400 by the tap setting of the speakers. For example, if the speakers are set at a 15W tap, the amplifier would be capable of driving 26 speakers per channel. At a 30W tap that would be 13 speakers.

As you can see, if you need coverage over a wide area and it requires numerous speakers, a 70Vsystem presents a tremendous advantage. However, it should be noted that the higher the wattage tap the higher the fidelity and the greater SPL that can be delivered from each speaker. Therefore, it is best to determine the total number of speakers needed and set the taps as high as possible within the amplifier's power output rating. As mentioned, the rotary switch is to be used to adjust the tap setting.

NOTE: There is an 8 Ω setting that bypasses the transformer entirely. Use caution to avoid this setting when connected to a 70V amplifier as this can damage the speaker.

8. Installation

8a) Speaker Placement

Determine the location of your ROCK speakers. Designate the general area where the speakers would be most ideal. The speakers should face the general listening area and be placed at or close to the same distance from that point for good stereo sound.

Place the speakers in the location where they will camouflage with your surroundings. The aesthetic rock shape and finish would blend particularly well in your landscape if it is placed near a water fountain, rock wall or swimming pool. Avoid placing the speakers in very low spots that would make the speakers vulnerable to high pressure sprinklers or water accumulation as it may damage the speakers. Avoid placing the Rock speaker in mulch, behind plants or other obstacles that may block the sound or alter the audio quality.

8b) Connecting the Wires

1. Plan how you'll route the wire to the desired speaker location.

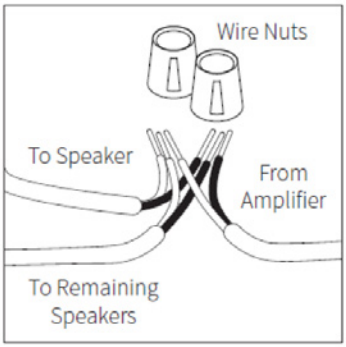
2. Estimate the length of additional wire you will need for each speaker.

3. Dig a 4" – 5" deep trench to run the speaker wires in.

4. Strip ¼ to ½ inches (6 to 12 mm) of the insulation off both ends of the wire. To avoid stray strands, twist them at the end.

5. Run the wire through the trench from your amplifier to the speaker locations. Do not connect the wires to the amplifier at this time.

6. Connect the speaker wires you ran from your amplifier to the wires that came attached to the speakers. It is recommended using wire nuts/silicone burial connectors to secure and seal the wires (see diagram below).



7. After you have made the above connections, connect the wires to your amplifier, and plug the AC power cord in to the amplifier.

Important:

Ensure to connect the **Speaker positive (+) to Amplifier positive (+)** and **Speaker Negative (–) to Amplifier Negative (–).** If the negative and positive wires are switched, speaker performance will be drastically impacted.

We recommend testing the system at this time to ensure the speakers are correctly installed and working properly.

9. Testing & Adjustments

Turn your amplifier on and test the system with music of your choice.

SOUND DISTRIBUTION

- Connecting all Rock speakers in Stereo connection gives an even sound distribution of both Left and Right channel at any location.

- When connecting two Rock speakers each in Mono (Left to one and Right to the other), the best listening area is at equal distance to both speakers.

ADJUSTMENTS

- Refer to the manual for the receiver or amplifier to make sound adjustments such as bass, treble and balance to obtain the preferred sound.

If the speakers are operating properly, refill the wire trench, and enjoy your new speakers.

10. Maintenance and Care

- The Rock Speaker is designed to withstand the elements and be placed outdoors. If cleaning is desired, simply use a damp cloth to wipe down the outer surface of the speaker. Using chemical cleaners is not recommended.

- Keep the Rock speakers clean to avoid insects nesting in the grille.

- Avoid spraying high pressure water from a hose or sprinkler since this could damage speaker components.

- Cover the rock speaker when applying lawn fertilizer or chemicals including bug spray and deck sealants.

- Do not play the speakers when the temperature is below freezing. If the speakers are not going to be used during winter months, it is recommended they be stored indoors, or covered with thick plastic bag/tarpaulin to help protect the speaker.

Important: No user-serviceable parts inside. Refer all servicing to qualified service personnel.

11. Troubleshooting

If you have a problem, try isolating it first. For example, if you're playing a DVD and there is no sound, try replacing the DVD with an MP3 player to see if you get sound. 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.
No Sound	Make sure the proper source is selected on the amplifier or receiver.
No Sound	Check the cord connecting the amplifier with the source. The cord may be damaged or plugged into the wrong input or output.
No Sound	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.
Poor Sound Quality	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.
Poor Sound Quality	Try changing sources to be certain that the selection you've chosen is a good quality recording.

12. 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.

13. Limited 5 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 & 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.

***All warranties and warranty conditions are subject to change. Please refer to the dealer portal for the latest information.**

Not Covered by Warranty

- 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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