

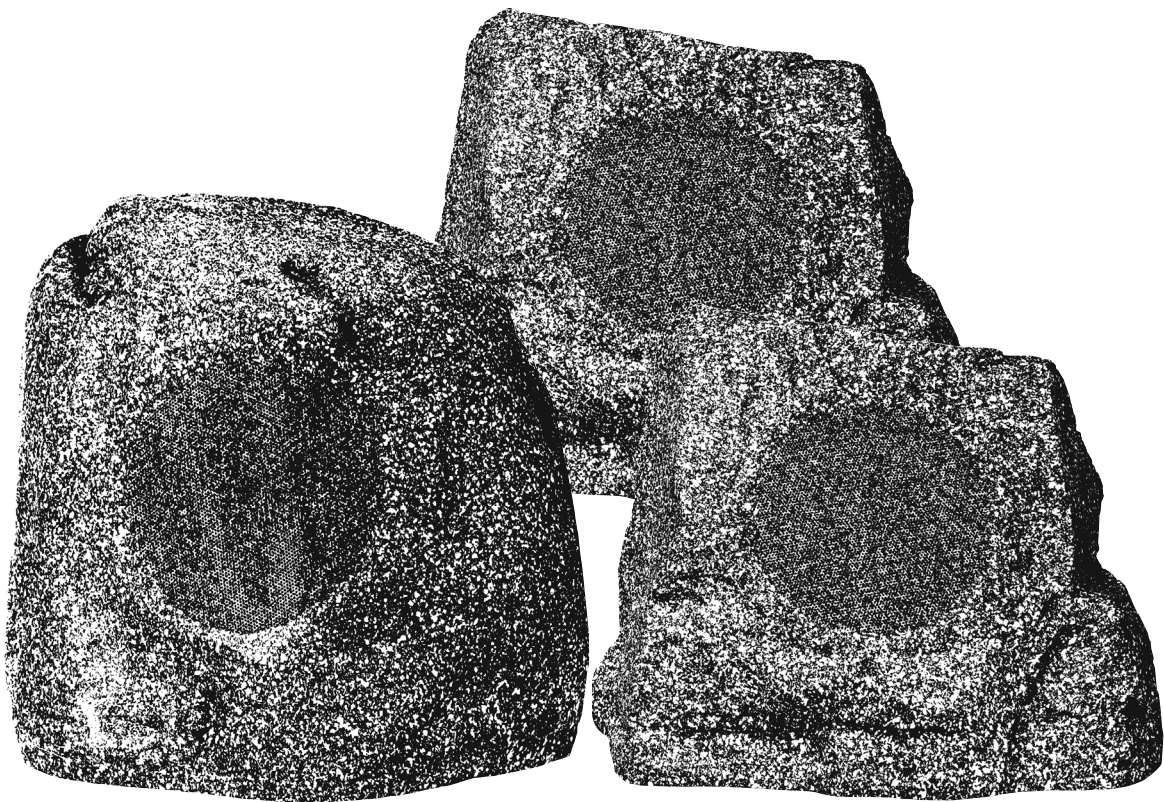


OutBack

Rock Speakers

Owner's Manual

OB-R6G



OB-R6F

OB-R6W

Overview

Introduction

Russound introduces a unique line of outdoor speakers. These Rock Speakers are designed to look like natural outcroppings of rock instead of bulky aluminum and plastic speakers that detract from nature's beauty.

Russound Rock Speakers are a distinctive addition to your yard and blend into any landscape for a convenient and practical outdoor audio solution.

The realistic rock speakers are offered in three styles to match your landscape: Gray Granite, Fieldstone and White Sandstone. These shapes and finishes closely mimic rocks found in nature for a quality, believable look.

The secret to the realistic look of the rock speakers is in the way they are crafted. The cast enclosure process produces more lifelike shapes and surfaces. This process is more expensive, but the three-layer fiberglass and resin construction results in an acoustically better speaker with low resonance for better sound. The process also creates an environmentally stable and durable speaker housing.

The resulting Rock Speaker has a sturdy, waterproof cabinet tough enough for use in all types of weather and environments. The enclosure is silicone sealed and equipped with a water drain for the speaker opening.

For added convenience an attached security eyelet is provided to prevent the speaker from getting 'carried away.' Also included are silicone-impregnated wire nuts for weathertight electrical terminations.

Each speaker has a 6.5" coaxial two-way driver with a polypropylene cone and fully painted aluminum grille.

With 10 – 100 watt power handling, Russound Rock Speakers fit any outdoor speaker necessities, for monaural or stereo applications.

Speaker Placement

An important factor for speaker placement is the location elevation. Select a spot wires can be run to from the audio system. The speakers should face the listening area and be spaced for best sound coverage for the area. The realistic rock shape and finish will blend in best if placed in a manner that mimics nature, such as near a rock wall or amidst ground plantings. Be sure to avoid placing the speaker in low spots that collect water.

Elevation and Slope

Speakers should be placed on the same level for balanced sound delivery. Speakers on different elevations will have different sound characteristics. The acoustic design is optimized to provide the best sound when placed on level ground at the same elevation as the listening area. Placing the speaker on higher elevations or tilting it upwards will provide less than optimal sound. Speakers should be placed for best sound delivery with the base of the speaker as level as possible. Never lean a speaker back to aim the sound up as this could allow it to retain water.

Amplifier Considerations

The Rock Speakers should be powered by an amplifier that provides a minimum of 10 watts per channel. An amplifier that has both stereo and mono capability is a plus, as you may want to use mono for large areas.

Number of Speaker Pairs

First, determine the size of the listening area, and identify any gathering areas where folks will sit or stand. The typical coverage area is 20 feet from the front of the speaker for normal listening levels. There should be a maximum of 20 feet between speakers for better stereo imaging. Too far away from each other creates an acoustic void when used for stereo. Monaural will not be affected to the same degree.

Use as many pairs of speakers as needed to achieve the desired coverage and dispersion of sound. Getting more sound with more speakers is better than cranking the volume, which may lead to amp clipping. Large areas are better served by monaural audio instead of stereo. In most outdoor environments, there is no ideal listening area to give stereo image or separation.

Tools Needed for Installation

- Wire strippers
- Hacksaw or pipe cutter
- Spade or trench tool
- Direct burial rated speaker cable
(Polarity indication should be on the cable)
 - 16AWG minimum - for distances up to 75ft.
 - 14AWG - from 75 to 125 feet
 - 12AWG - from 125 to 175 feet
- PVC conduit, cleaner and cement (optional)
- Silicone caulking

Planning Path for Cable Burial

First, consult your local phone and/or electric company to learn of existing buried cables or pipes. Watch for buried water lines or gas lines. If necessary, use a metal detector to

discover buried cables. Be aware of any local building code requirements that may be applicable.

Trenching and Burying Cable

To ensure proper installation of direct burial speaker cable, consult the manufacturer of the cable you are using, and adhere to all applicable electrical codes.

After positioning the speakers and determining where any buried obstructions exist, you can dig the trench. Lay the cable out on top of the ground from the speaker to the outdoor volume control to determine length.

Make cable connections at the speaker. Be sure to observe polarity. Make connections at the amplifier, and test the system to see if everything is working properly.

Trench below the frost line for the cable. The frost line will vary depending on geography, and is typically no deeper than three feet.

If using conduit, size and cut it to length. Connect the conduit lengths and elbows with PVC cement. Ensure all electrical connections are watertight; seal with additional silicone if necessary. Run cable through the conduit.

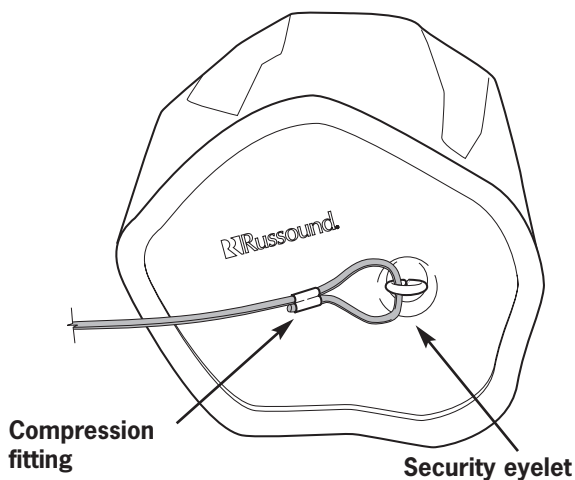
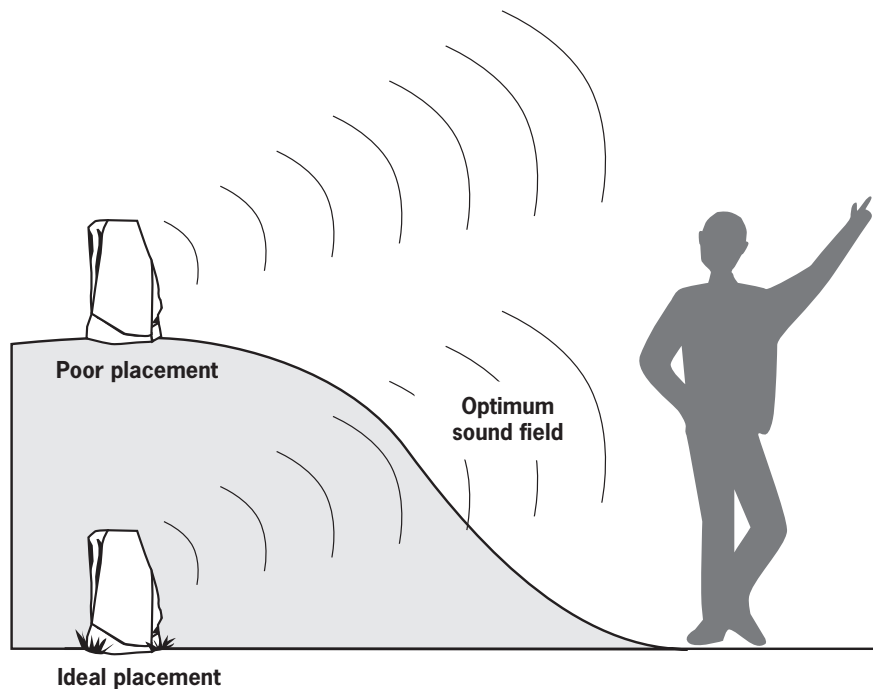
Bury the cable or conduit in the trench, and leave an extra 3 feet of cable under the speaker to allow for future adjustments in position.

Seal the cable paths through structure walls with silicone.

Rock Speaker Placement

The Rock Speakers have been optimized to provide the best response when placed on the same elevation as the listening area and sitting flat on

the ground. Tilting the speaker up can potentially create a problem with proper rainwater drainage also.



Security Eyelet Use

The Rock Speakers have a security eyelet on the bottom through which a security cable can be looped. Attach a vinyl coated cable at a low position to a not-so-easily removable object like a park bench, fence post, tree trunk, etc.

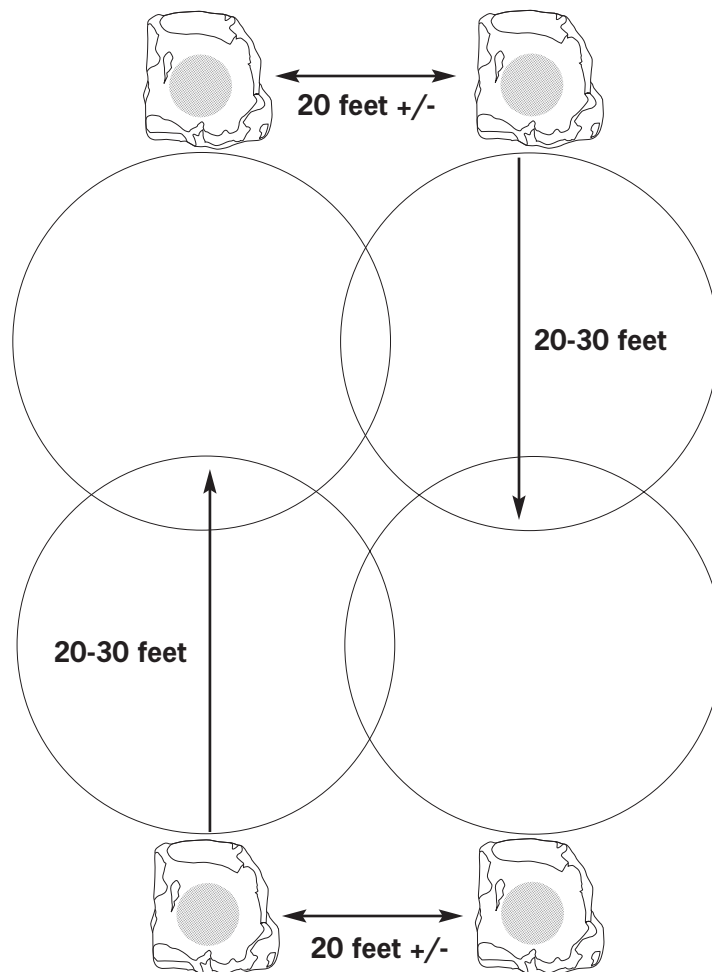
Run the cable to the speaker, and bury or cover the cable to hide visibility and prevent a trip hazard. Secure the cable to the eyelet on the bottom of the speaker. Use compression fittings or a crimp to form a loop.

Rock Speaker Stereo Imaging



The best stereo imaging can be achieved by placing rock speakers no closer than 20 feet next to one another. The sound propagation outward from the face of the speaker is ideal within a 20 to 30 foot range. The rock speakers can certainly cover larger areas but as the distance between adjacent speakers increases, the stereo

imaging starts to deteriorate. As the distance between opposing speakers increases beyond the 20 to 30 foot range, the volume level to cover the whole area can reach uncomfortably loud levels when the listener moves closer to the speakers.





Specifications

Model: OB-R6G Gray Granite
 Description: Rock loudspeaker
 Woofer: 6.5-inch coaxial driver with polypropylene injection molded cone
 Tweeter: 14mm (0.56") polycarbonate
 Frequency Response: 70Hz - 20kHz +/- 3 dB
 Nominal Impedance: 8 ohms
 Efficiency: 89 dB (1W @ 1M w/1kHz)
 Recommended Power: 10-100 watts per channel
 Dimensions: 14"W X 10"H X 9.25"D (35.6 X 25 X 23.5 cm)
 Weight: 10 lbs. (4.5 kg)

Model: OB-R6W White Sandstone
 Description: Rock loudspeaker
 Woofer: 6.5-inch coaxial driver with polypropylene injection molded cone
 Tweeter: 14mm (0.56") polycarbonate
 Frequency Response: 70Hz - 20kHz +/- 3 dB
 Nominal Impedance: 8 ohms
 Efficiency: 89 dB (1W @ 1M w/1kHz)
 Recommended Power: 10-100 watts per channel
 Dimensions: 14"W X 10"H X 9.25"D (35.6 X 25 X 23.5 cm)
 Weight: 10 lbs. (4.5 kg)

Model: OB-R6F Fieldstone
 Description: Rock loudspeaker
 Woofer: 6.5-inch coaxial driver with polypropylene injection molded cone
 Tweeter: 14mm (0.56") polycarbonate
 Frequency Response: 60Hz - 20kHz +/- 3 dB
 Nominal Impedance: 8 ohms
 Efficiency: 89 dB (1W @ 1M w/1kHz)
 Recommended Power: 10-100 watts per channel
 Dimensions: 13"W X 12"H X 10"D (33 X 30.5 X 25 cm)
 Weight: 13 lbs. (5.85 kg)



Warranty

All Russound Rock Speaker products have a Five (5) year Limited Warranty against defects in materials and workmanship. Proof of Purchase must accompany all claims. During the warranty period Russound will replace any defective part and correct any defect in workmanship without charge for either parts or labor.

Russound may replace returned speakers with a product of equal value and performance. In such cases, some modifications to the mounting may be necessary and are not Russound's responsibility.

For this warranty to apply, the unit must be installed and used according to its written instructions. If necessary, repairs must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing performed by an agency or person not specifically authorized in writing by Russound.

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the speaker(s) in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

This Warranty Does Not Cover:

- Damage caused by abuse, accident, misuse, negligence, or improper operation (installation).
- Products that have been altered or modified.
- Any product whose identifying number or decal, serial #, etc. has been altered, defaced or removed.
- Normal wear and maintenance.

Due to our continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise speaker systems specifications without notice.



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