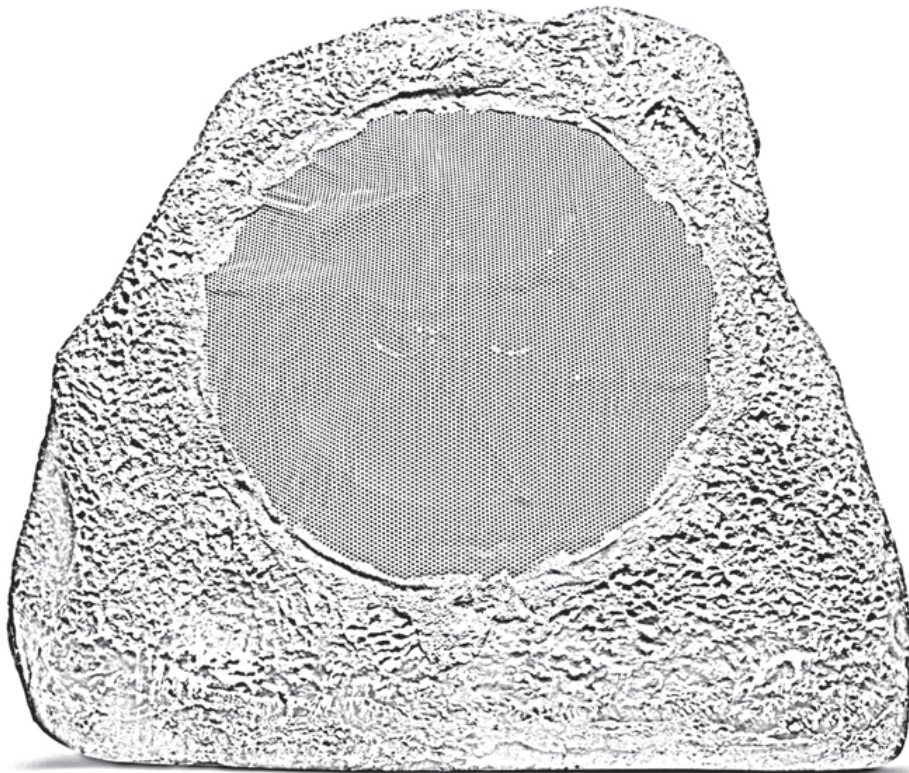


a sound relationship
Russound

Acclaim™ 5 Series OutBack

**Outdoor Rock Loudspeaker
and Rock Subwoofer
Installation Manual**



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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.

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

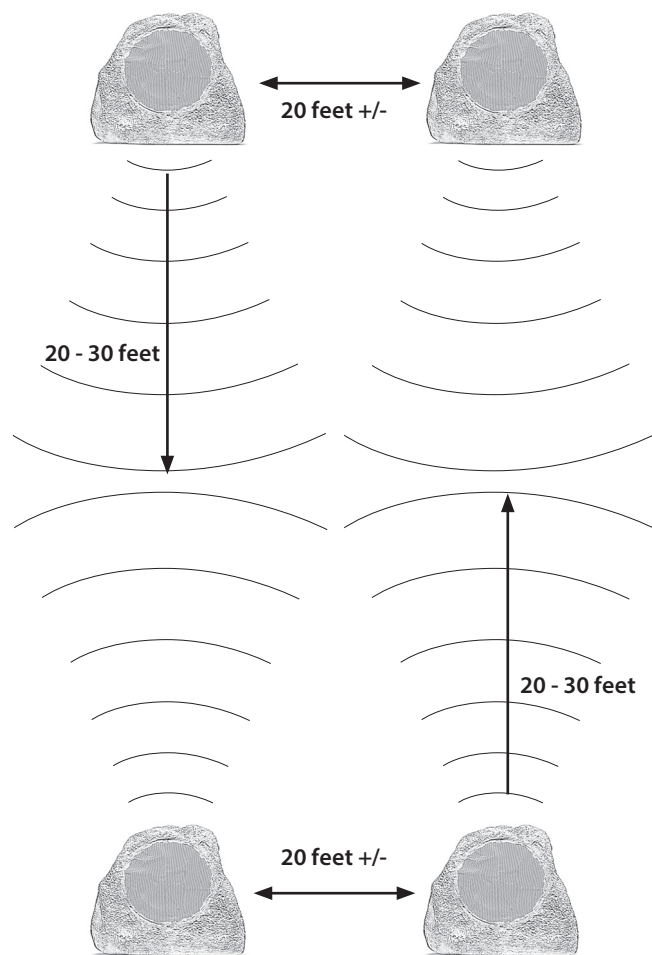
Speakers should be placed on the same level for balanced sound delivery. Speakers on different elevations will have different sound characteristics. The acoustic design is optimized to provide the best sound when placed on level ground at the same elevation as the listening area. Placing the speaker 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.

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.

speakers no closer
outward from the
rock speakers can
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comfortably loud.
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Rock speaker stereo imaging placement

Rock Subwoofer Recommendations

Your Russound rock subwoofer is a passive, sealed, front-firing design and can be powered by a typical amplifier. Enhanced performance can be obtained by utilizing an active crossover to adjust the sound characteristics of the speaker. Russound's website, Russound.com has typical settings available that can be imported directly when using the MiniDSP brand of active crossovers which are commonly available however any brand of active crossover or DSP-enabled amplifier may be used for enhanced response.

You are free to adjust the parameters to your particular preference, but the Russound recommended settings for an installation for both the Russound rock subwoofers and rock stereo speakers are below. For any installations where stereo (left/right channel) placement is difficult, Russound recommends using Mono sound to simplify installation and maximize enjoyment in outdoor environments:

Rock Subwoofer

Input 1/Output 1 to Subwoofer Amplifier

Crossover Filters:

48dB/octave BW* Highpass Filter set to 45Hz
24 dB/octave BW* Lowpass Filter set to 120Hz

Parametric Filters:

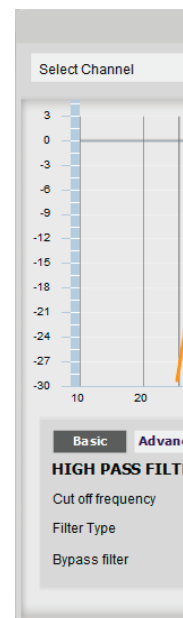
Low Shelf Filter set to 80Hz, 5.0dB Gain with Q=1
Peak Filter set to 50Hz, 2.0dB Gain with Q=3

Rock Stereo Speaker

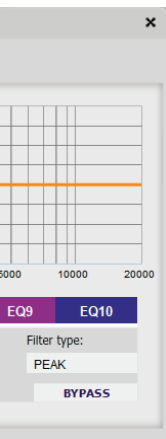
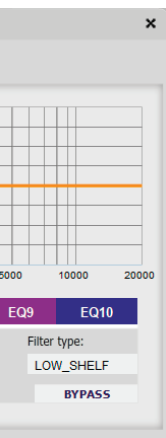
Input 1/Output 2 to Stereo Speaker Amplifier
Crossover Filter: 24dB/Octave LR* Highpass Filter set to 120Hz

*BW=Butterworth, LR=Linkwitz-Riley

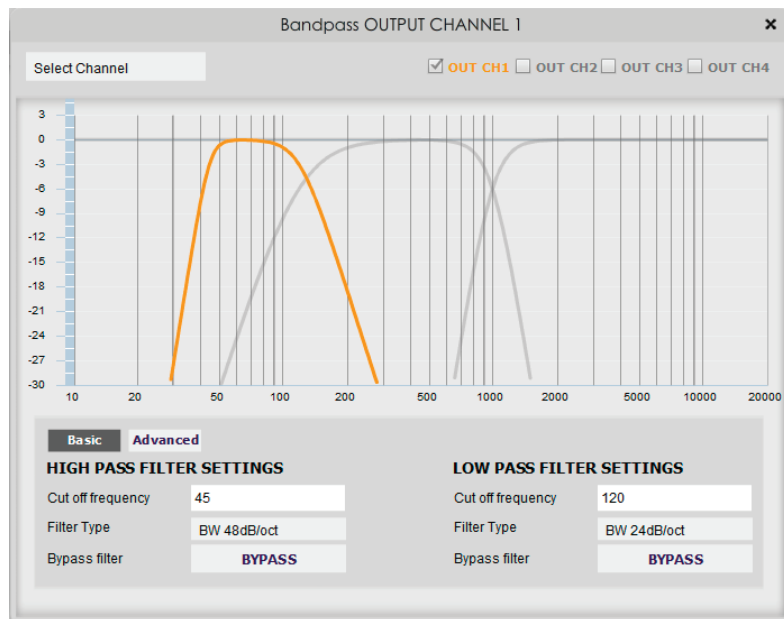
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Stereo Speaker Crossover Filter



Speaker Cable

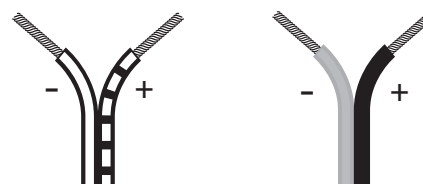
The amount of wire needed varies with speaker placement. Label speaker wires with left, right, and location.

Use Russound AW series speaker cable or any reputable brand of 16 to 12 gauge multi-stranded wiring for amplifier- to-speaker connections.

Wire is measured in gauges: the greater the number, the smaller the wire. The gauge of wire needed is determined by the distance between the amplifier/receiver and the speakers. The longer the run, the heavier the gauge needed. Use the following chart as a guide:

Length	Minimum Gauge
0' to 100'	16
50' to 150'	14
100' to 200'	12

The standard colors on the terminals are red Positive (+) and black Negative (-). If the wire has transparent insulation, one conductor will be copper-colored (+) and the other silver-colored (-). If the wire has an opaque insulation, the conductors are differentiated by a series of ribs or grooves, a stripe, or dotted line on one conductor. Use and mark these as the Positive (+) conductor.



Typical usage of speaker wire conductors

Prewiring

Run a separate AWG (1.5 mm) from appropriate fire n

If you are instal four-conductor s

When running least 12 inches (3 speaker cables m

Leave about 2 f and amplifier. La keypad or amplif

learn of existing
lines. If necessary,
any local building

able, consult the
aplicable electrical
code where any buried
cable is run on top of the
structure to determine length.

may vary depending
on the material. If using conduit,
use elbows with PVC

polarity.

speaker. Then strip

separated from

to observe proper
polarity. If the
wires, connect the
positive wire to the black

4. Check to make sure there are no stray strands of wire outside the terminals. If there are, remove the wire, twist the strands together, and reconnect the wire to the terminal.
5. Ensure all electrical connections are watertight. Use silicone-impregnated wire nuts for weathertight electrical terminations, and seal with additional silicone if necessary.

Burying Cable

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.

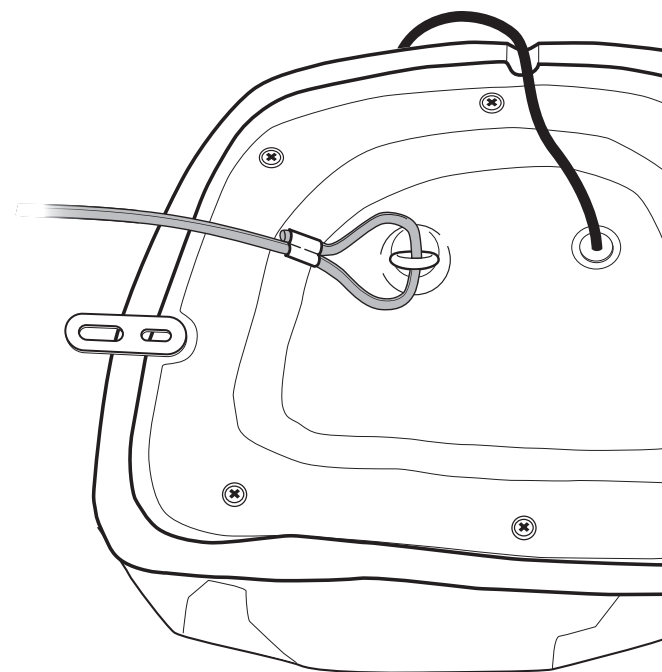
Security Eyelet

The speaker has a security eyelet on the bottom through which a security cable can be looped. Attach as vinyl coated cable at a low position to a non-moveable object such as a bench, fence post or tree.

Run the cable to the speaker, and bury or cover the cable to hide it 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.

Mounting Bracket

There are two mounting brackets used as an alternative to the



Bottom of rock speaker showing security eyelet and mounting bracket

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Troubleshooting Guide

Before returning your Russound speakers for service, try these simple remedies first.

No sound from either speaker:

- Incorrect source selected on receiver or preamplifier.
- Mute button pressed on receiver.
- Wrong speaker output selected; many receivers have an "A" and "B" speaker switch. Make sure it is in the correct position.
- Volume control not turned up or wired incorrectly.
- If using a speaker selector, room/station not turned on or improperly connected.

No sound from one speaker:

- Unsecured connection at either the speaker or amplifier - double-check all connections.
- Balance control turned all the way left or right - return it to center.
- Bad connecting cable between sound source and amplifier - try a new cable.
- Check for stray wire strands crossing the speaker terminals.
- Defective speaker - contact your Russound dealer or call Russound Tech Support at 603.659.5170.

Muffled sound from a stereo speaker:

- Check polarity of speaker connections. One channel may be reversed.

Any other problems not listed, discuss with your dealer or call Russound.

MODEL: 5R82

Type

2-Way Loudspeaker

Woofers

8" (20.3 cm) Polypropylene

Tweeter

1.1" (28 mm) Aluminum Dome

Crossover

2nd Order LP/3rd Order HP (2.8kHz)

Frequency Response

58Hz-20kHz

Sensitivity

90db SPL 2.83V @ 1m

Nominal Impedance

8 ohms

Recommended Power

10-125 watts

Dimensions

14" x 12" x 11" (35.6 x 30.5 x 27.9 cm)

Weight

12 lbs (5.4 kg)

Available Colors

Gray Granite, Sandstone, Weathered Granite

MODEL: 5R8SUE

Type

Front Firing Subwoofer

Woofers

8" (20.3 cm) Polypropylene

Frequency Response

40Hz-200Hz +/- 3dB

Sensitivity

90db SPL 2.83V @ 1m

Nominal Impedance

8 ohms

limited warranty
Purchase must
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without charge for

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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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Acclaim™ 5 Series OutBack
Outdoor Rock Loudspeaker & Subwoofer
Installation Manual

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