ORIGIN®
ACOUSTICS

Installation Manual

Composer LCR Series

Models: LCR36
LCR38
LCR64
LCR66
LCR68

Table of Contents

844·674·4461
TECHSUPPORT@ORIGINACOUSTICS.COM

Introduction

Thank you for purchasing the Composer LCR In-Wall Speaker. 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 Composer, 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 (Pacific Time), Monday through Friday.

Installation Requirements and Recommendations

What's included

- Template
- Speaker
- Grille

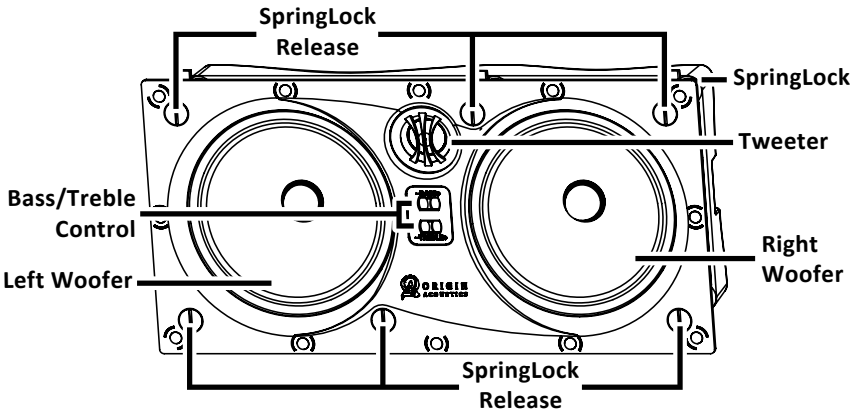

Figure 2.1: Speaker

Required Tools/Items

1. Keyhole or drywall saw
2. Speaker wire
3. Pencil
4. Wire stripper
5. Measuring tape

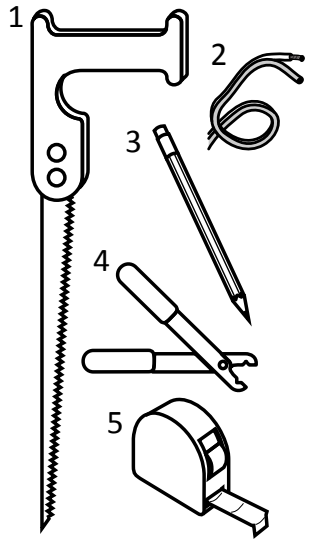

Figure 3.1: Tools

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.

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

Optional Tools/Items

• Drill with ⅛" (33 mm) drill bit	To check for obstacles in wall
• Stiff wire (like from a coat hanger)	To check for obstacles in wall
• Stud finder	To check for obstacles in wall
• Fish tape	To route wire through walls
• Can of spray paint	For painting the grille
• Can of compressed air	For painting the grille

Speaker Placement

3.1

Place the center channel (CC) speaker directly above or below the video display, preferably equidistant from the walls on the left and right. The left (L) and right (R) speakers should be on the same wall on either side of the video display, with the center speaker exactly between them. It's better if the left and right speakers are closer to the screen rather than further from it.

It's best if all three front speakers about 3.5 feet (1 m) from the floor, however there's a good chance that the center speaker will have to be lower or higher than the others.

The speakers can be installed either vertically or horizontally.

For better sound quality, avoid installing the speakers near corners.

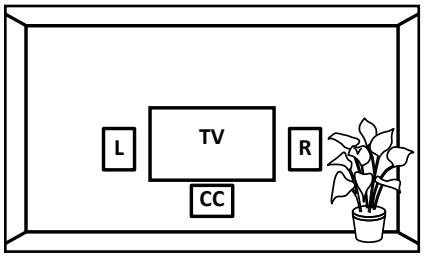

Figure 4.1: Speaker Layout (Option 1) Side View

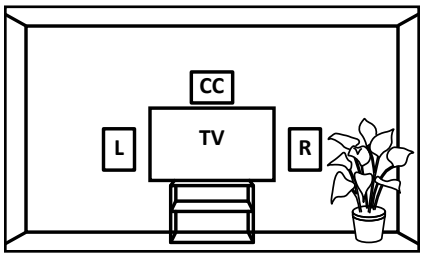

Figure 4.2: Speaker Layout (Option 2) Side View

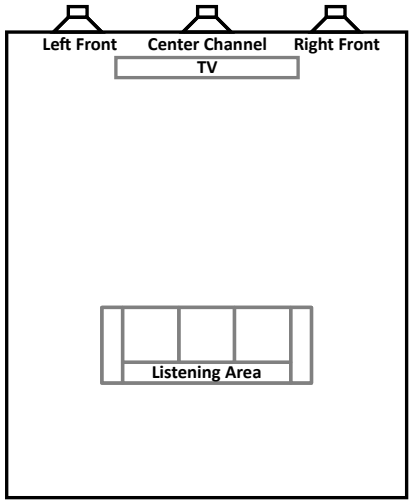

Figure 4.3: 3 Speaker Setup

5.1

In addition to the left, right, and center speakers described in the 3.1 setup, install the surround left and right speakers on the left and right walls. They should be a few feet behind the listening area, and about 5 feet (1.5 m) from the floor.

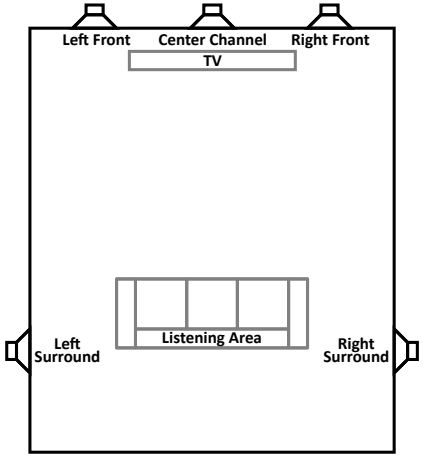

Figure 5.1: 5 Speaker Setup

7.1

The front left, right, and center speakers should be in the same location as the previous two setups described. The surround left and right speakers should be about 5 feet (1.5 m) from the floor, directly to either side of the listening area. Finally, the rear speakers should be on the back wall, about 5 feet (1.5 m) from the floor and 3 to 6 feet (1 to 2 m) apart. If possible, make sure that the distance between the rear speakers is the same as the distance between the front left and right speakers.

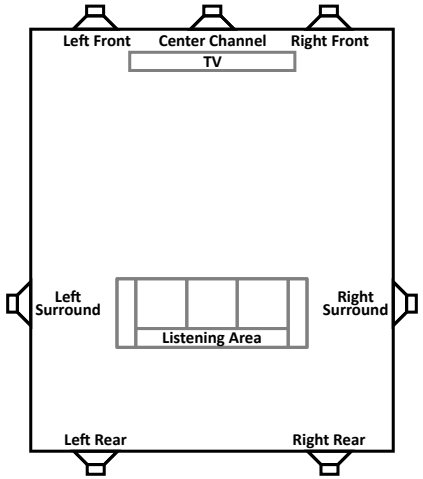

Figure 5.2: 7 Speaker Setup

Installation

1) Installing the Wire

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.

Connect the wire to the amplifier, and make sure the wire connected to the left speaker output will be routed to the left speaker, right output to right speaker, etc.

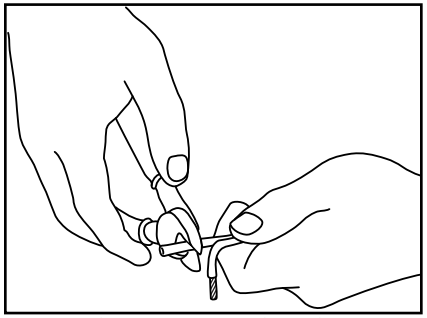

Figure 6.1: Strip Wire

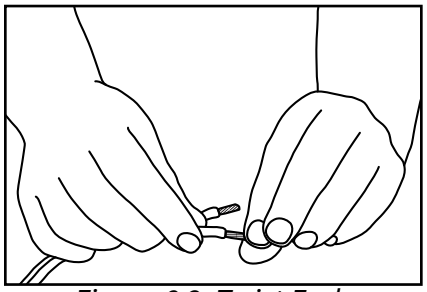

Figure 6.2: Twist Ends

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.

Plan out how you'll route the wire to the desired speaker location. There are several methods for routing the wire, and you will most likely need to combine several of these methods.

Under the Carpet:
One option is to lift up the carpet and use tape wire to route the wire under the carpet.

For New Construction

If these speakers are being installed in a new home during construction, the installation process will be a bit different (although much simpler). For these situations, it's recommended you purchase a bracket. Instructions on how to install the speakers are provided with the bracket, or can be found on our website. Visit www.originacoustics.com for more information.

Behind the Baseboard:
The wire can be routed behind the baseboard by cutting a groove out of the back of the baseboard, or by buying special baseboard designed for concealing wires.

Through the Attic:
If the room is under the attic or a crawlspace, the wire can be routed through there.

Through the Basement:
Likewise, if there's a basement or crawlspace under the floor, the wire can be routed through there.

Route the wire through the walls and ceiling to the desired speaker location. Be sure to avoid all obstacles such as AC wiring, pipes, and ducts.

2) Painting the Grille

In some situations the speakers may look better if the color matched the walls, ceiling, or trim in the room. This can be accomplished by painting the grille. The grille must be painted with spray paint, and most hardware stores will mix a can of paint to match whatever color you need.

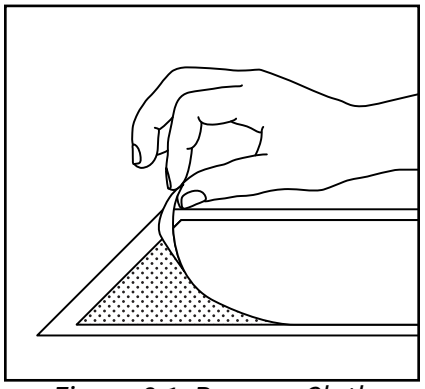

Figure 8.1: Remove Cloth

Before painting, carefully remove the thin cloth on the underside of the grille. Lightly spray the front of the grille with the paint from a distance, being careful not to plug any of the holes. Diluting the paint with paint thinner will lessen the risk of filling any holes. If a hole is plugged, use a can of compressed air to open it. Once the paint is dry, put the cloth back on the grille.

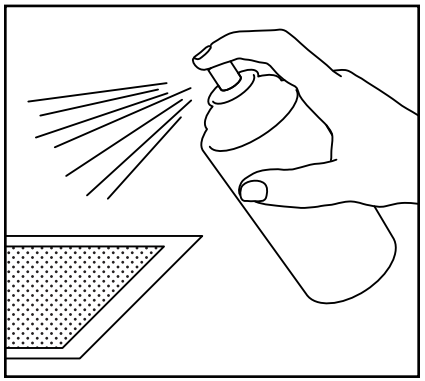

Figure 8.2: Spray Grille

3) Cutting the Hole

When you've decided on the locations for all of the speakers, use the template to trace a rectangle lightly in pencil where the hole should be. If you're unsure on whether there may be obstacles (such as pipes or wires) where you plan on installing the speaker, drill a ⅛ inch hole in the center of the rectangle, then put a bent coat hanger through the hole to feel around. If there are no obstacles, use a keyhole or drywall saw to cut the hole.

4) Connecting the Wires

Push down on the top of the connector and insert the wire, making sure that the positive is being attached to the red connection and the negative is being attached to the black connection. If the negative and positive wires are switched, speaker performance will be drastically impacted.

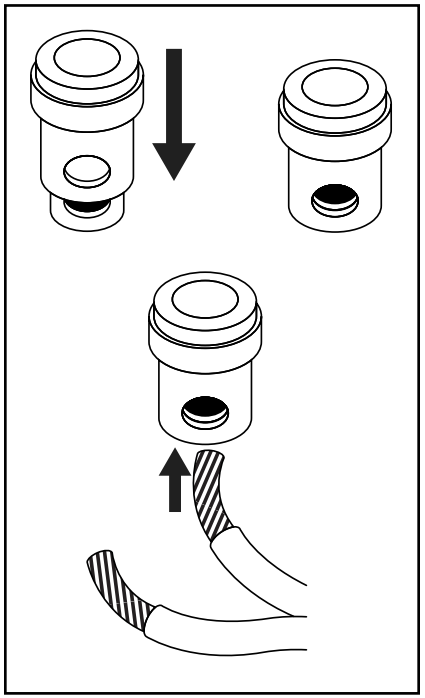

Figure 9.1: Connecting the Wires

5) Installing the Speaker

On the speaker, make sure all the SpringLocks are loaded in the upper notch, facing inward. Fit the speaker into the hole, and using a screwdriver or a coin, turn the SpringLock releases 90 degrees so the SpringLocks face outwards. When you turn each SpringLock release, you should hear each SpringLock clamp down on the wall. Do not attempt to tighten the SpringLock releases, because once the SpringLock has clamped down it's as secure as it can be.

If you need to remove the speaker, turn the SpringLocks 90 degrees so that they face inwards and lift the speaker out.

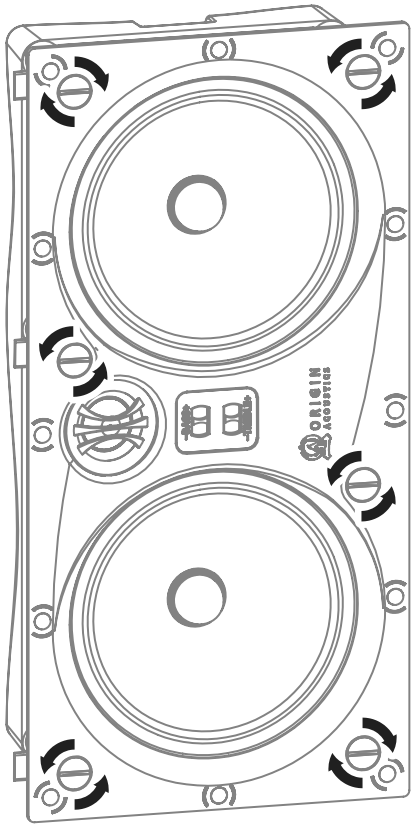

Figure 10.1: Turing the SpringLock Release

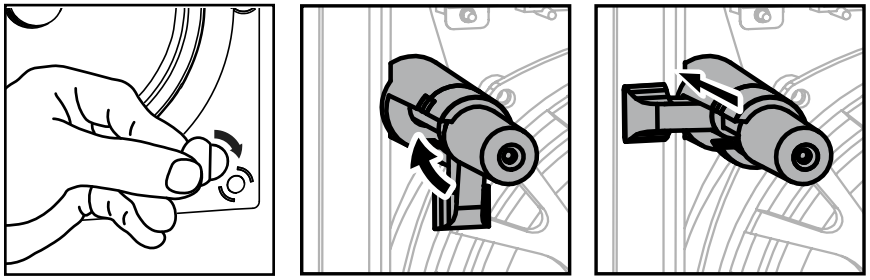

Figure 10.2: Deploying the SpringLock

6) Listening Test and Adjustments

The tweeter can be pivoted to direct the sound towards the listening area. Gently apply pressure to the rim of the tweeter with your thumbs to aim.

The LCR36, LCR38, LCR66, and LCR68 have two switches: one to adjust the treble, and one to adjust the bass. The LCR64 only has one switch for treble.

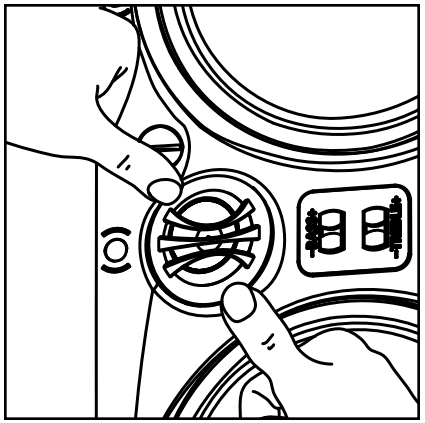

Figure 11.1: Aiming the Tweeter

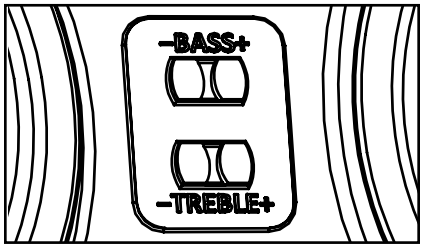

Figure 11.2: Bass/ Treble Switches

Reasons to Adjust Bass and Treble

Bass: When a speaker is installed in a corner, the bass is amplified. If this is the case, it may be best to turn the bass down.
Treble: When a room has a lot of hard surfaces like bare walls and hardwood floors, the treble will reflect off of these surfaces and increase. In these situations, it may be a good idea to turn the treble down. Alternately, in rooms with carpet and things like curtains, the treble is often absorbed. If this is the case, it would probably be best to turn up the treble.

7) Installing the Grille

Fit the grille over the speaker. The grille uses magnets to be held in place.

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.

Specifications

Model Number	LCR36	LCR38	LCR64	LCR66	LCR68
Part Number	SWML10600	SWML10800	SWML14400	SWML14600	SWML14800
Tweeter Dome	Silk DPSD	Silk DPSD	Aluminum	Silk DPSD*	Silk DPSD*
Tweeter Diameter	1” (25mm)	1” (25mm)	0.75” (20mm)	0.75” (20mm)	0.75” (20mm)
Woofer Cone	Glass	Kevlar	IMG	Glass	Kevlar
Woofer Diameter	3.5” (89mm)	3.5” (89mm)	6.5” (165mm)	6.5” (165mm)	6.5” (165mm)
Adjustments	Treble & Bass	Treble & Bass	Treble	Treble & Bass	Treble & Bass
Frequency Response	55Hz-20kHz	53Hz-20kHz	70Hz-20kHz	70Hz-20kHz	70Hz-20kHz
Impedance	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Power Handling	5-80 watts	5-80 watts	5-150 watts	5-150 watts	5-175 watts
Sensitivity	90dB ± 3dB	90dB ± 3dB	90dB ± 3dB	90dB ± 3dB	90dB ± 3dB
Dimensions	5.25 x 10.25” (134 x 262mm)	5.25 x 10.25” (134 x 262mm)	7.5 x 15.25” (190 x 386mm)	7.5 x 15.25” (190 x 386mm)	7.5 x 15.25” (190 x 386mm)
Cutout Dimensions	4.75 x 9.75” (±0.25) 120 x 248mm (±10)	4.75 x 9.75” (±0.25) 120 x 248mm (±10)	7 x 14.625” (±0.375) 166 x 362mm (±10)	7 x 14.625” (±0.375) 166 x 362mm (±10)	7 x 14.625” (±0.375) 166 x 362mm (±10)
Mounting Depth	3.75” (95mm)	3.75” (95mm)	3.75” (95mm)	3.75” (95mm)	3.75” (95mm)

*DPSD = Dual Plane Stabilized Diaphragm

Warranty

Limited Lifetime 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.*)*

©2014 Origin Acoustics. All copyrighted, trademarked and patented elements mentioned herein are the sole property of Origin Acoustics.

ORIGIN®
ACOUSTICS