



ORIGIN®
ACOUSTICS

Installation Manual

Landscape Collection

Models:

LS44

LS64

OSUB8

OSUB10

OSUB12



Introduction

Thank you for purchasing the Origin Seasons Landscape System. You are about to enjoy an incredible listening experience created specifically for outdoor environments. Origin engineers have invested countless hours creating loudspeakers that deliver amazing sonic performance from enclosures that can withstand the harshest elements.

The Landscape System can include multiple satellites and subwoofers as the specific application and system design call for. These speakers are designed to work with the Crown CDi amplifiers (supplied by Origin). Please refer to that manual for amplifier presets and setup.

This instruction booklet covers the necessary information for the installation of your Landscape System, including: step-by-step instructions, 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.

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Installation Requirements and Recommendations

Required Tools/Items

- Direct burial wire
- Wire cutters
- Wire stripper
- Shovel
- Philip's head and flat head screwdrivers

Speaker Wire Recommendations

For this setup, use a direct burial, multi-stranded wire designed for amplifier to speaker connections. 70V systems greatly minimize the effect of speaker wire which allows you to use a lighter gauge (larger gauge number) wire than you may be accustomed to. Refer to this chart to select the minimum wire gauge -- heavier gauge wire is always OK.

Wire Length (Feet)	Recommended Gauge	
	8 Ω	70v
0 - 150	14	18
100 +	12	16

Planning

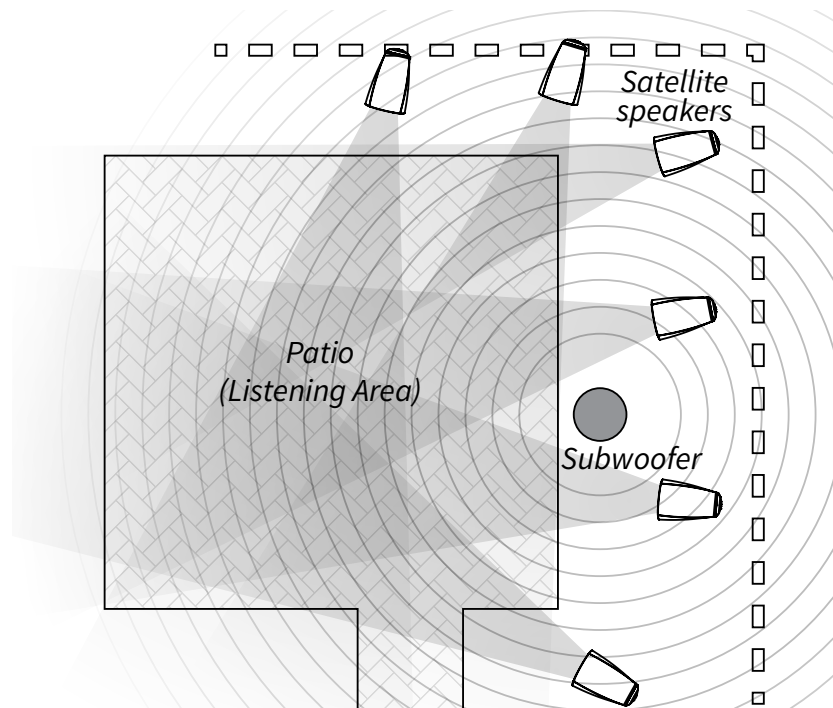
The Landscape satellite speakers and subwoofers should be strategically placed to evenly distribute sound throughout the outdoor area. Fully plan out the locations of all satellite speakers, subwoofers and buried wires before beginning the installation process.

Origin satellite speakers have been specially designed so that you can set them in the 70v configuration for large installs, or for small installs they can be set to 8 Ω for use with a standard AV receiver. (If using the OSUB8, 10 or 12 in 8 Ohm we recommend using a dedicated subwoofer amplifier. *See Origin SUBA150, SUBA500)

The first step to locating your speakers is to plan the speaker layout. Origin Acoustics offers a free design service to help you map the optimal speaker placements as well as recommended amplifier power and project scale. (Email customerservice@originacoustics.com for more information.) If, however, you want to plan the layout yourself, here are some guidelines.

Satellite Speaker Location

Satellite speakers should be fairly evenly spaced and aimed so they cover the listening area uniformly. One satellite speaker will provide sound to about 250 to 500 sq ft, depending on your loudness requirements. Origin makes mounting hardware available so that you can easily and securely locate satellite speakers on the ground, flat surfaces like walls or even on trees. You should avoid placing them next to high-pressure sprinklers.

**Layout Example**

Subwoofer Location

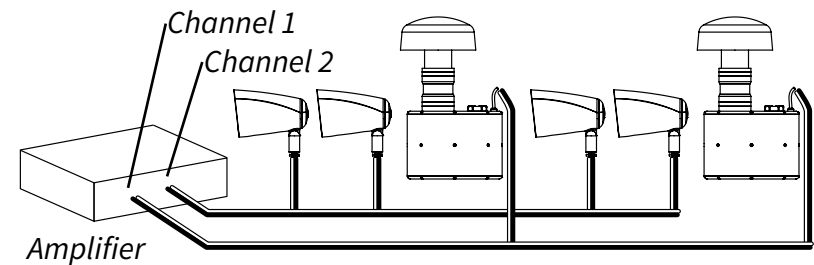
Select a location for the subwoofer somewhat near the middle of the satellite speaker arrangement. One subwoofer will provide bass to about 1000 to 2000 sq ft. When using multiple subwoofers, space them out evenly and about equal-distance from the listening area. Subwoofers should be positioned away from standing water.

Wiring Plan

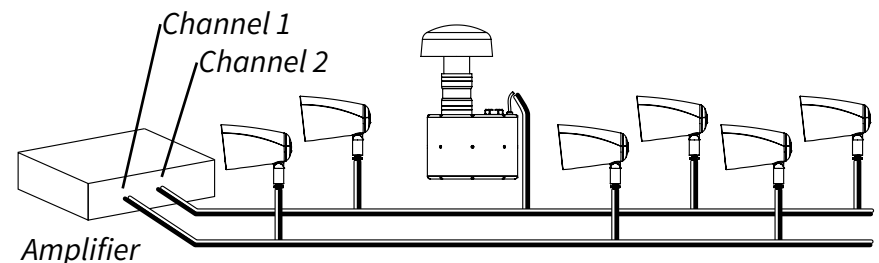
For most applications, we recommend wiring all subwoofers on a designated wire run and satellites on a separate wire run. This will allow the Crown CDi amplifier to use the presets with active crossovers that remove the bass from the satellites, more effec-

tively controls how the subwoofer interfaces with the satellites, permits you to control the subwoofer-to-satellite balance and has the custom DSP (digital signal processing) assigned to subwoofers and satellites separately.

All speakers on a wire run -- satellites or subwoofers -- can be daisy-chained (wired in parallel). Subwoofers will need to be on CH1 and satellites on CH2.



Another option that you may be more familiar with allows you to daisy-chain satellites and subwoofers on the same wire run(s). With this approach, the Crown presets still use custom DSP but the crossover between satellites and subwoofer is passive. Subwoofer(s) can be connected to either channel anywhere in the chain. When using more than one subwoofer, evenly distribute them between the two channels.



Small System Option:

For a smaller system, it's possible to use an ordinary 8 Ohm receiver or amplifier. For this use case, all speakers and subwoofers must be set to 8 Ohm. (No more than two speakers per channel)



Installation

Satellite Speakers

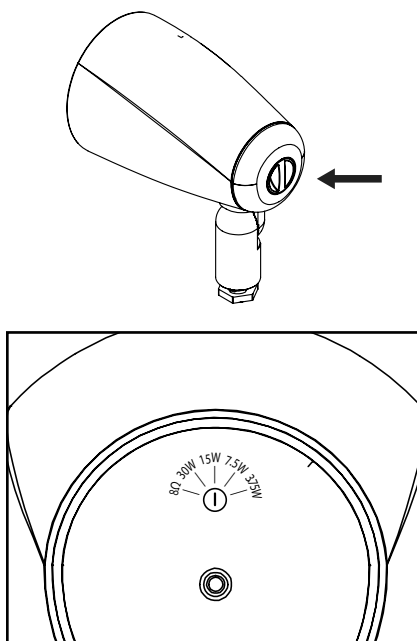
Install the satellite speakers with their mounts. (Depending on the location and type of mount, you may want to connect the wires to the satellite speakers first.)

To aim the satellite speaker up and down, loosen the screw on the pole until the satellite speaker can be aimed, and then tighten it when it's facing the appropriate direction. To prevent water damage, angle the satellite speaker less than 45 degrees up.

To aim the satellite speakers side to side on the tree or surface mount, the satellite speaker first should be screwed fully to the mount. Then, loosen it until it's facing the right direction. Move the bolt just until it's snug against the mount.

The rear cover on the satellite speaker can be removed to adjust the wattage taps to adjust the volume. Do not set it to 8Ω unless you're planning on using the "Small System Option" discussed above.

To remove the back cover and access the wattage controls, unscrew the knob on the back. Then the back panel can be removed. When reattaching the back panel, make sure it's oriented properly, or it may not fit.



Subwoofer

When you've decided on a subwoofer location, you're ready to dig its hole.

OSUB8: 14" diameter, 15" deep

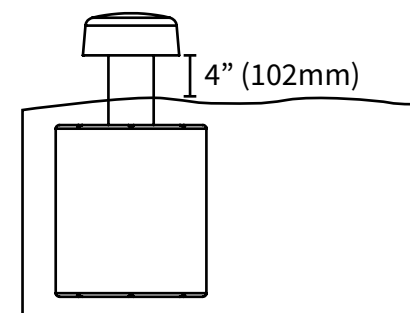
OSUB10: 18" diameter, 15" deep

OSUB12: 20" diameter, 17" deep

Use loose dirt to level the subwoofer. The subwoofer shouldn't be in contact with large rocks or large empty holes.

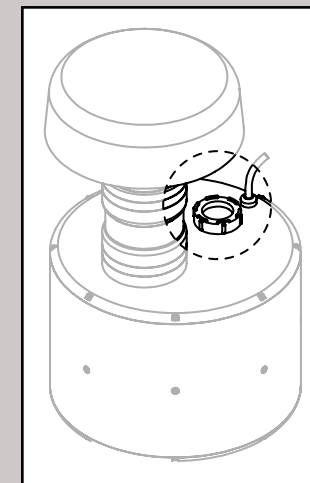
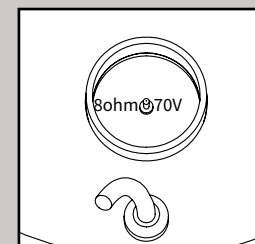
Using the pipe clamp, attach the pipe to the subwoofer.

Do not lift the subwoofer by holding the port tube as this could damage the subwoofer.



OSUB8, OSUB10 and OSUB12 8ohm/70v Switch

All Origin OSUB in ground subwoofers can be switched from 8 Ohm or 70v. Once you decided what type of system you are going to run (8ohm or 70v) please adjust the switch on the top of the OSUB located under the cap. Please note that the default position for all satellites and subwoofers is 70v. For more information, refer back to the "Small System Option" section on page 5.





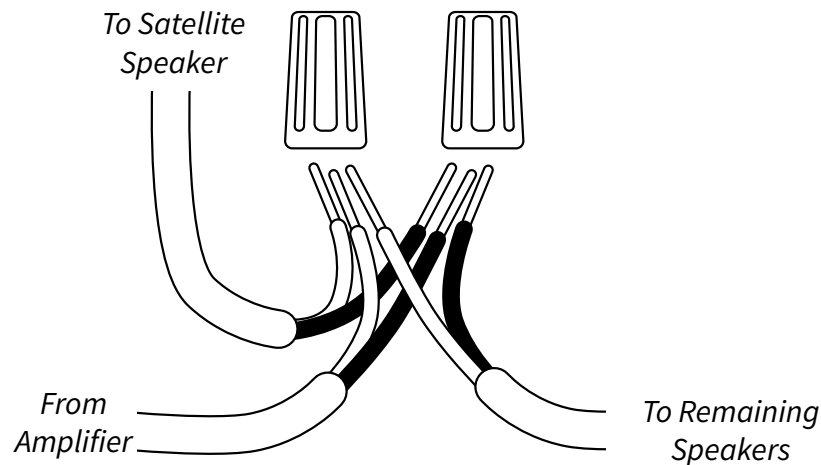
Wiring

Dig a 5" trench where you plan on laying out the wire. Run the wire from the amplifier to your first satellite speaker or subwoofer location.

WARNING

DO NOT connect the amplifier to AC power before all the satellite speakers and subwoofer are connected. DO NOT connect the satellite speaker wire to the amplifier before all other connections have been made. Failure to do so may create a shock hazard. DO NOT let any stray (+) and (-) strands to come in contact with each other. This could damage your amplifier.

Using waterproof wire nuts (included), connect the wire to the first speaker using the following diagram as reference:



Bundle all three of the positive wires (wire from the amplifier, the first satellite speaker, and to the rest of the satellite speakers) together and connect them with the first wire nut. Then do the same for all the negative wires.

Continue connecting the speakers in this fashion until you reach the end.

Connect the wires to the amplifier.

Connect your music playing device and test the system. If everything is working properly, fill all the holes and trenches.

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. 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 satellite 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.



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 satellite speakers. Make sure they're connected properly and not damaged in any way.
Poor Sound Quality	Check to make sure all your satellites and amplifier are set to the appropriate setting. 70v or when using 2 satellite speakers ONLY per channel, 8ohm
	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.

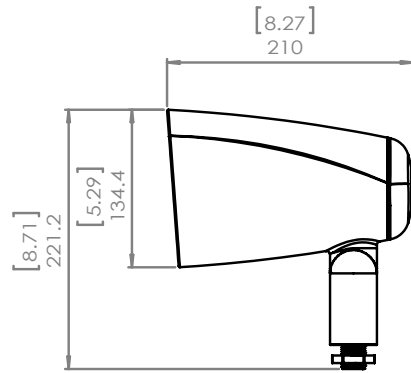


Specifications

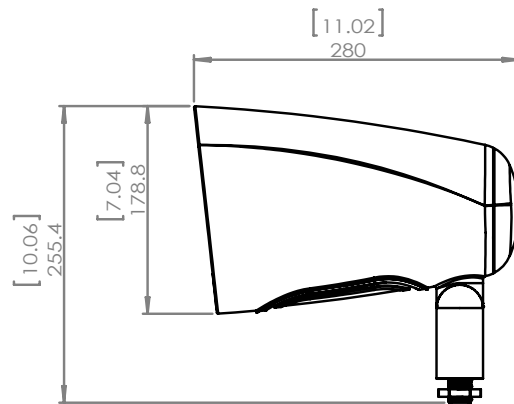
Model Number	LS44	LS64	OSUB8	OSUB10	OSUB12
Part Number	OLS4400	OLS6600	OSUB8000	OSUB10000	OSUB12000
Tweeter Dome	Titanium	Titanium	N/A	N/A	N/A
Tweeter Diameter	0.75" (20mm)	1" (25mm)	N/A	N/A	N/A
Woofers Cone	Injection molded polypropylene	Injection molded polypropylene	Polypropylene	Polypropylene	Polypropylene
Woofers Diameter	4.5" (114mm)	6" (152mm)	8" (203mm)	10" (254mm)	12" (305mm)
Frequency Response	80Hz - 20KHz \pm 3dB	60Hz - 20KHz \pm 3dB	39Hz - 100Hz \pm 3dB	32Hz - 100Hz \pm 3dB	23Hz - 100Hz \pm 3dB
Transformer	70v or 8ohm	70v or 8ohm	70v or 8ohm	70v or 8ohm	70v or 8ohm
Wattage Taps	30w, 15w, 7.5w, 3.75w, 8ohm	50w, 25w, 12.5w, 6.75w, 8ohm	100w	300w	300w
Enclosure	PolyComposite, weather and UV resistant enclosure				
Size (WxHxD)	5.25x8.75x8.25" (134x221x210mm)	7x10x11" (179x255x280mm)	12.5x21.25x12.5" (315x538x315mm)	15.75x21.5x15.75" (400x543x400mm)	17.75x23.5x17.75" (450x598x450mm)



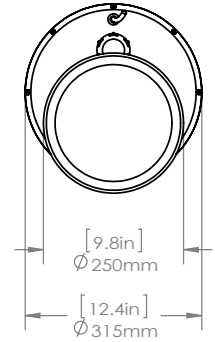
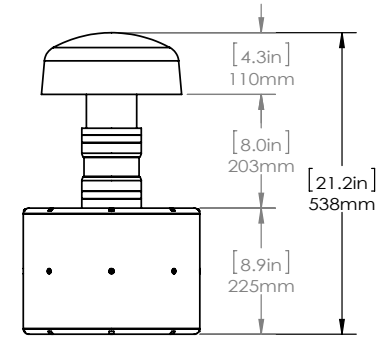
LS44



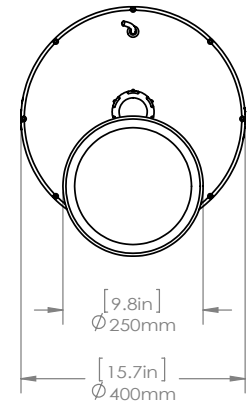
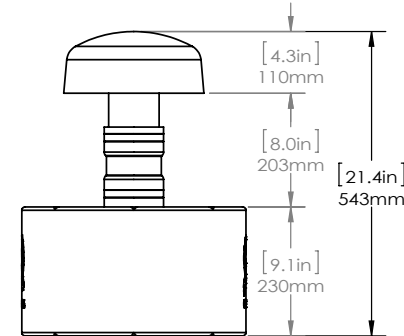
LS64



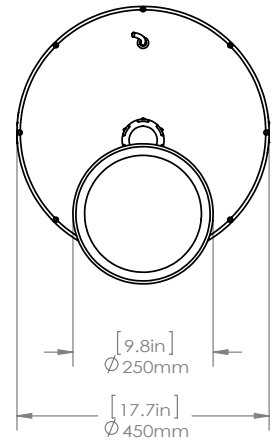
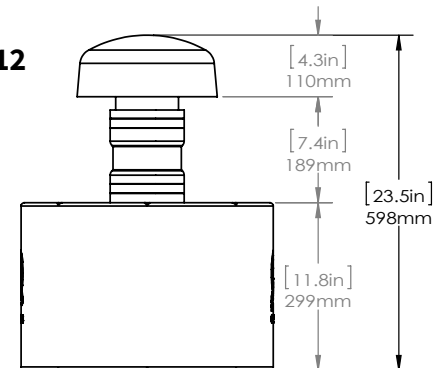
OSUB8



OSUB10



OSUB12





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 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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