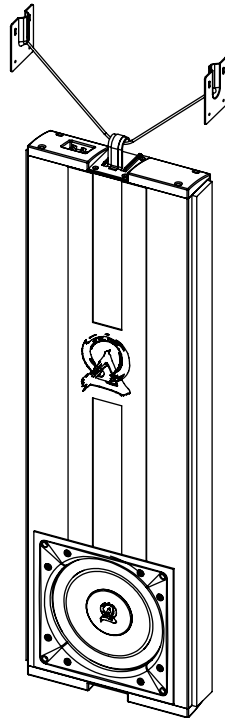
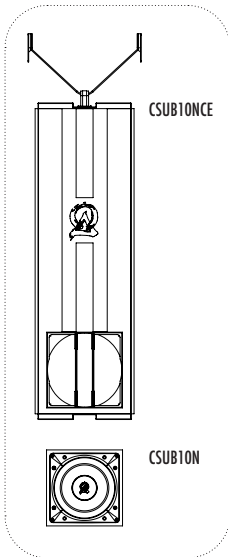




# CSUB10N & CSUB10NCE

## IN-WALL SUBWOOFER | INSTALLATION MANUAL



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## 1. Introduction

Thank you for purchasing our In-Wall Subwoofer.

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 subwoofer is designed for new construction installations only. For your installation convenience, it's sold in two parts: the **CSUB10NCE** enclosure that's installed before the drywall, and the **CSUB10N** that's installed after the drywall.

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 (Pacific Time), Monday through Friday.

## 2. Specifications

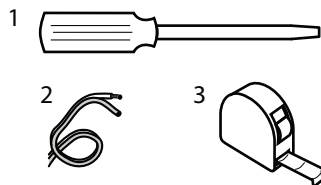
MODEL	CSUB10NCE (ENCLOSURE)	CSUB10N (BAFFLE) Sold Separately
<b>PART</b>	<b>CSUB10000NCE</b>	<b>CSUB1000AN</b>
Woofers	N/A	10" Aluminum (254mm)
Frequency Response	N/A	30Hz-250Hz
Power Handling	N/A	100 - 500W
Impedance	N/A	8Ω
Sensitivity	N/A	88dB
Amplifier Requirements	N/A	SUBA500 / SUBA150
Cutout Dimensions	N/A	10.55" L x 10.55" W (268 x 268mm)
Dimensions	44" L x 13" W x 3.5" D (1120 x 330 x 88 mm)	10.5" L x 10.5" W x 3.7" D (262 x 262 x 94 mm)
Dimensions with Grille		14.15" L x 14.15" W (360 x 360mm)
Grille Dimensions		14.15" L x 14.15" W (360 x 360mm)

### 3a. CSUB10NCE Enclosure: What's Included

- Enclosure
- Subwoofer Baffle Placeholder
- New Construction mounting system
- 2 x Mounting brackets
- Mounting suspension cable
- 8 x Mounting bracket screws

### 3b. Required Tools/Items

- Screwdriver
- Speaker wire
- Tape measure



### **3c. Wire Recommendation**

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 recommend choosing 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. 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

### **3d. Choosing the Installation Location**

The location of your subwoofer(s) will have a large impact on sound quality. For best results, install the subwoofer so the bottom is close to the ground and in either corner in the front of the room. If you're installing two subwoofers in the room, the best option is one in each corner in the front.

### **3e. Choosing the Amplifier**

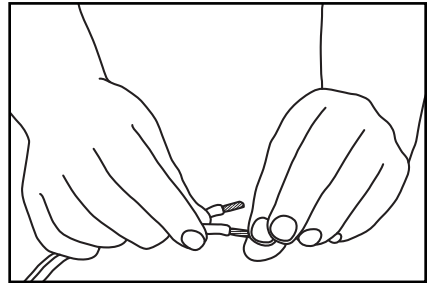
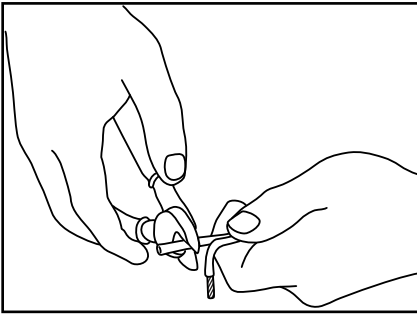
This subwoofer has been designed to work with an Origin Subwoofer amplifier, either the SubA150 or the SubA500.

## **4. CSUB10NCE Enclosure: Installation**

### **1a) Installing the Wire**

Strip  $\frac{1}{4}$  to  $\frac{1}{2}$  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, but don't plug in the amplifier AC just yet. Route the wire through the walls to the subwoofer location.



*Installing the Wire*

### **1b) About Speaker**

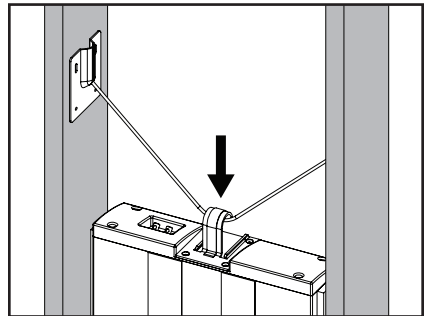
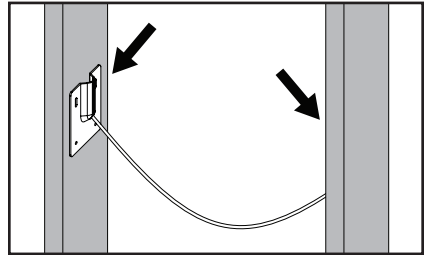
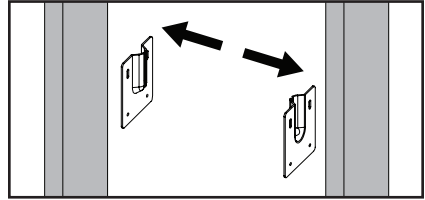
You will need a wire that has at least two conductors; one that can be identified as the positive and the other as the negative. All two conductor wires have some means of identifying which conductor is which, but at times this identification may be subtle. It's crucial that you keep track of which wire you use for positive (+) and negative (-). Typically if the wires are colored red and black or copper and silver, 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.

## 2) Installing the Enclosure

Using the 8 provided screws, attach the two mounting brackets to the studs so that they are facing each other. Once everything's installed, the distance between the bottom of the subwoofer and the bottom of the bracket will be about 49".

So when you know how far off the floor the subwoofer should be, add that number to 49", and install the brackets at that height. For example, if you want the subwoofer to be about a foot off the floor, install the bottom of the brackets about 61" (49" + 12") off the floor.

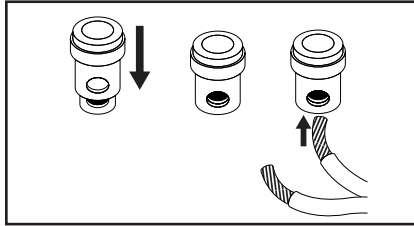
Insert the ends of the suspension cable into the mounting brackets. Hang the enclosure from the suspension cable. There are several ends on one side of the suspension cable so that you can adjust the height of the enclosure.



*Suspension Install*

### 3) Attaching the Wire to the Enclosure

Depending on how you ran the wires to the subwoofer location, the wires can be attached to the connectors at the top or bottom of the enclosure. Push on the end of the connector and insert the wire.



*Connecting Wire*

### 4) Drywalling Surround

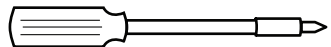
The drywall is now ready to go up. The placeholder plate should not be removed until the subwoofer is installed. Install the drywall to the edge of the plate, but do not tape or mud the gap. The gap should not be larger than 1/8" (3mm). The drywall screws should be no further apart than 12", or 8" along the edge.

### 5a. CSUB10N Baffle: What's Included

- Baffle with 10" Aluminum Woofer
- Grille
- Screws (x4)
- Hex-drive

### 5b. Required Tools/Items

- Screwdriver that can hold hex-wrench





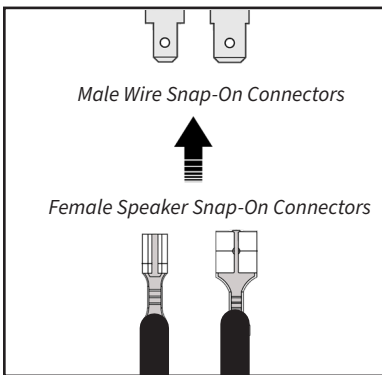
## 6. CSUB10N Baffle: Installation

### 1) Installing the Subwoofer Baffle

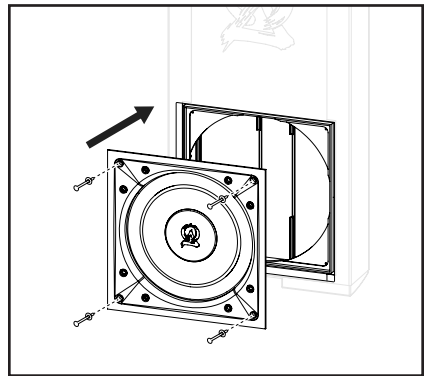
When you're ready to install the baffle, start by removing the placeholder plate. Connect the speaker wires from the enclosure to the woofer snap-on connections. Note that the snap-on connections are sized differently to assure that they get connected to the proper woofer connections.

Insert the baffle into the enclosure. Make sure it's right-side-up by keeping an eye on the orientation of the logo. Use the four screws to firmly attach the baffle to the enclosure, but do not overtighten.

We recommend testing the system at this time to ensure the subwoofer is installed and working properly.



*Connecting Snap-On Connections*



*Inserting the Baffle*

### 2) Mounting the Grille

Fit the grille over the subwoofer and press into place.

### 3) Making Amplifier Adjustments

1. “Crossover” should be the first adjustment you set. But you can always come back and fine tune this later.
  - If you are using the LFE output from a home theater receiver, set the crossover frequency on the subwoofer amp as high as you can since you will be controlling this on the receiver’s set-up routine.
  - For most applications you can simply set the subwoofer amplifier’s crossover frequency to 80Hz (straight-up on our SubA150 amp). When using an LFE output, set it to 80Hz.
  - If your front speakers are small you may want to try setting the crossover closer to 100Hz (about 1 o’clock on our SubA150 amp).
2. “Phase” adjustment should come next. This adjustment can have a subtle effect but it is definitely worth doing. You won’t need to sweat getting it exact; the important thing is to avoid getting it really wrong.
  - When tuning by ear:
    - a. If you are using a home theater receiver, during set-up there will be section asking you to enter the distance from the listener to the speakers. You should do this before proceeding. If you are using a receiver that does not have this feature, don’t worry, the following steps will still get everything right.
    - b. For source material, a test CD with a 80Hz or 100Hz test tone (either sine wave or  $\frac{1}{3}$  octave pink noise) is best but anything with constant bass can also work well.
    - c. Set the volume so that the bass level sounds approximately right to slightly bass heavy.
    - d. You will want to be in the critical listening area. Have a helper adjust the phase control until the bass level sounds the loudest. If you are using music or video tracks for this test, listen for the mid-bass level as the low bass will be unaffected. At this stage you’re listening for the loudest bass, not the best.

- When tuning by measurement. You will use the same method as above except:
  - e. replace your ear with an SPL meter. An inexpensive SPL meter works fine or you can download a free app for use on your phone.
  - f. Sorry, but the music CD with constant bass won't work here. You will need to use a test CD.
- 3. "Volume" will complete your subwoofer amplifier set-up.
  - When tuning by ear. Play some source material that has bass content you are familiar with. Simply adjust the volume until the bass level sounds in balance with the rest of the sound. Try several music and video tracks paying special attention to deep male vocals with an ear towards making them sound natural. Be sure to try several locations in the listening area and adjust to get the best average.
  - You shouldn't attempt tuning by measurement unless you have the sophisticated equipment that can measure full bandwidth and you know what you're doing.

## 7. 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.
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.

## **8. 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: [sales@originacoustics.com](mailto:sales@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.

## **9. 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 & 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 [www.originacoustics.com](http://www.originacoustics.com) 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

## **10. 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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