



Deep Collection Subwoofer



SUBDD12EQ



SUBD12EQ



SUBD10EQ



SUBD8EQ

Installation Manual

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Introduction

Thank you for purchasing the Deep™ Subwoofer Collection. 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, 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.

SAFETY INSTRUCTIONS

General Information

- Please read and follow these safety instructions.
- Keep them safe for future reference
- Observe all warnings on the speaker and in the manual. Please check the speaker for damage before use. The speaker must be in perfect working condition. Damaged parts may lead to personal injury.

Caution! Deep™ Subwoofers and active speakers may be heavy. Be careful when lifting them to prevent personal injury.

Use only as directed

- Connect the speakers according to the instructions in the manual.
- Deep™ Subwoofers are equipped with spikes/anti-slip feet. They are provided for leveling the speaker. For leveling on an uneven floor, unscrew the spikes or anti-slip feet by 2-3 turns of thread. The speakers should always be in perfect vertical alignment: the stability of the speaker must not be compromised by using spikes/anti-slip feet as the speaker may tip over.

Location

- Install the speakers on a level surface only.
- When choosing the location of these speakers do not place them in locations that are:
 - In direct sunlight
 - Very humid
 - Prone to vibrations
 - Exceptionally hot or cold
 - Near CRT televisions (the speakers are not magnetically shielded and may cause color issues with a CRT based tv)
 - Close to magnetic cards (since the speakers are not magnetically shielded placing magnetic cards such as credit cards or commuter may cause them to fail)

Warning

Please ensure the product is perfectly stable to avoid injury from tip-over. Please note, that stability can be increased by using spikes on carpeted surfaces. However, the mounting of spikes must be carried out carefully due to their very sharp ends which may cause injuries.

The stability on slippery floors can be increased by using velcro fastening tape or double sided adhesive tape. Do not install the speaker near any heat sources such as radiators, heating valves, stoves, or other apparatus (including amplifiers) that produce heat, or in areas where there is a risk of explosion.

DEEP™ SUBWOOFER SPECIFICATIONS

Model: SUBDD12EQ

Part: SUBDDEQ1200

- Woofer: Dual 12" Custom Resin Coated Paper
- Frequency Response: 17- 180HZ
- Amplifier Power: Bash 1200 Watts Peak
- Complete bluetooth control via phone app
- Crossover Frequency: 50-150HZ
- Weight: 63 lbs.
- Dimensions: 17 x 17 x 17"
(432 x 432 x 432mm)
- Input LFE RCA
- Signal Sensing On/Off
- 115/230 Voltage Auto Switch
- Cabinet Finish – Cloth wrapped,
Aluminum Top

Model: SUBD12EQ

Part: SUBDEQ12000

- Woofer: 12" Custom Resin Coated Paper Active, 12" Passive
- Frequency Response: 22-180Hz
- Amplifier Power: Bash 500 Watts Peak
- Complete bluetooth control via phone app
- Crossover Frequency: 50-150HZ
- Weight: 55 lbs.
- Dimensions: 17 x 17 x 17"
(432 x 432 x 432mm)
- Input LFE RCA
- Signal Sensing On/Off
- 115/230 Voltage Auto Switch
- Cabinet Finish – Cloth Wrapped,
Aluminum Top

Model: SUBD10EQ

Part: SUBDEQ10000

- Woofer: 10" Custom Resin Coated Paper Active, 10" Passive
- Frequency Response: 26-180Hz
- Amplifier Power: Bash 300 Watts Peak
- Complete bluetooth control via phone app
- Crossover Frequency: 50-150HZ
- Weight: 31 lbs.
- Dimensions: 13 ¾ x 13 ¾ x 13 ¾"
(345 x 345 x 345mm)
- Input LFE RCA
- Signal Sensing On/Off
- 115/230 Voltage Auto Switch
- Cabinet Finish – Cloth Wrapped,
Aluminum Top

Model: SUBD8EQ

Part: SUBDEQ8000

- Woofer: 8" Custom Resin Coated Paper Active, 8" Passive
- Frequency Response: 31-180Hz
- Amplifier Power: Bash 150 Watts Peak
1% THD+N
- Complete bluetooth control via phone app
- Crossover Frequency: 50-150HZ
- Weight: 24 lbs.
- Dimensions: 11 x 11 x 11"
(280 x 280 x 280mm)
- Input LFE RCA
- Signal Sensing On/Off
- 115/230 Voltage Auto Switch
- Cabinet Finish – Cloth Wrapped,
Aluminum Top

IN PREPARATION

Unbox the subwoofer and set box and packing material aside. Turn off the entire audio system before making any connections.

BASH AMPLIFICATION

The amplifier in your Deep™ Subwoofer is a hybrid design utilizing the best of both digital and analog technologies. This allows for extreme high-quality bass output and dramatically reduced distortion. We have achieved this through an extraordinarily advanced A/B output stage powered by Bash. This gives you all of the warmth and musicality of an analog amplifier with the efficiency and power reserves of a digital amplifier.



CONTROLS AND INDICATORS

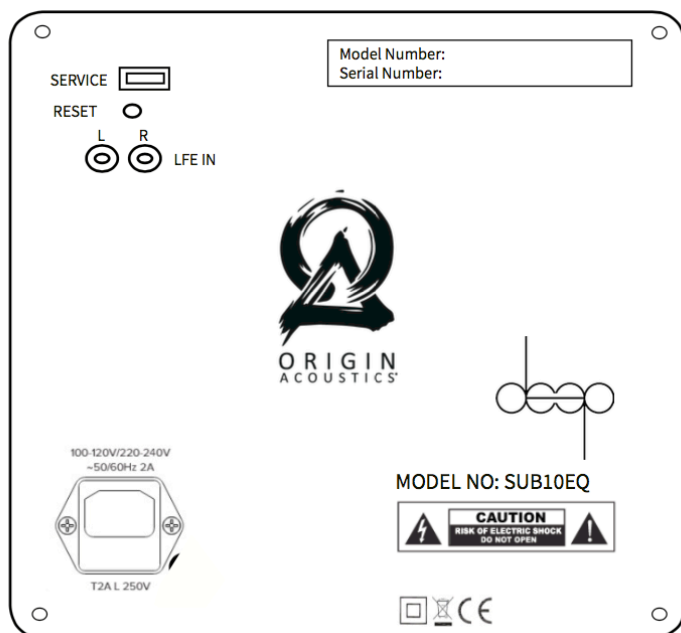
Power Light – This blue light will be on in when the Deep™ subwoofer is powered on. The light will be off when the Deep™ subwoofer is either off or in standby mode.

Line In - The line level connection is used to connect the Deep™ subwoofer to your pre-amp/AV receiver. Use an RCA cable (not included) to connect your AV Receiver with a single Deep™ Subwoofer/LFE output to the LFE IN of the Deep™ subwoofer or connect the full range outputs of your receiver or amp. Note, that are using L/R RCA inputs will require the use of crossover in the Deep™ subwoofers.

Reset - The reset button allows you to revert to the original default settings. To reset, press and hold the button for approximately 5 seconds until the light flashes, then let go. All settings within the phone app will be returned to the factory parameters.

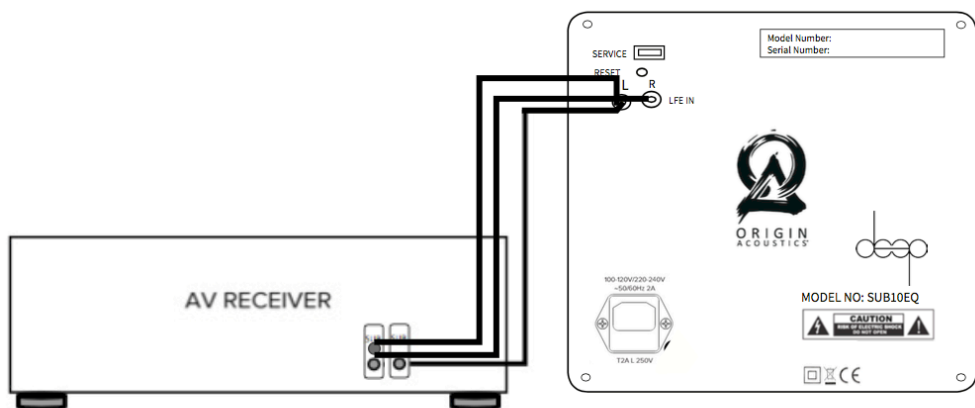
Service - This connection is used for servicing the Deep™ subwoofer and is not used for normal operation.

AC Power Connection - This connection is a standard IEC power jack. Use the supplied power cord to connect the Deep™ subwoofer to an available AC outlet.



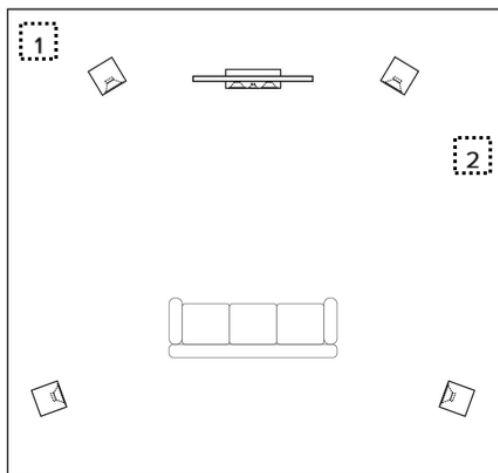
CONNECTING THE DEEP™ SUBWOOFER

Connect the Deep™ subwoofer to a receiver or preamp using an RCA interconnect cable. (Not included) The sub can either be connected to a dedicated LFE or subwoofer output using a single mono cable or, by using the included “Y” adapter, to a stereo, adjustable line level output. A fixed line level output is not appropriate as the subwoofer level will not change to follow the adjustments in system output level.



DEEP™ SUBWOOFER PLACEMENT

The location of the Deep™ subwoofer in your room is a critical decision that will affect the sound quality and balance of your audio system. This is a matter of both art and science and may require you to experiment with more than one location. Always test the sound from the primary listening position. Begin with a front corner of the room. This loads the Deep™ subwoofer between two perpendicular walls and will help in creating maximum output. If the output is too great, move the Deep™ subwoofer along the side wall and listen again. You will also be making adjustments on the phone app discussed below.

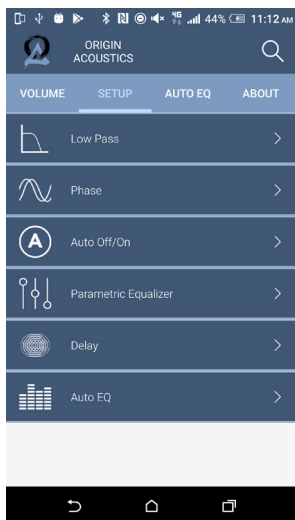
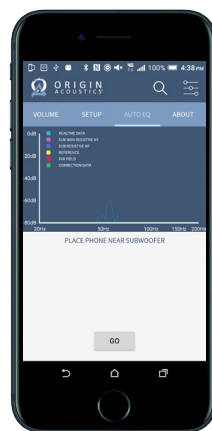
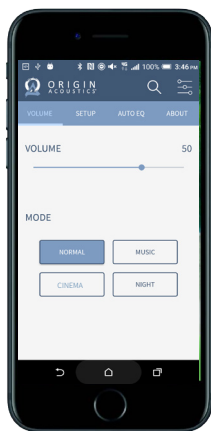
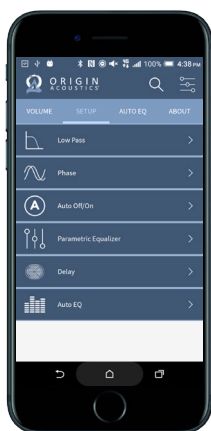


DEEP™ SUBWOOFER APP

Your Origin DEEP™ subwoofer app allows you to make several adjustments to fine-tune the output using our proprietary app for you iPhone® or Android® device. Download the app at the Apple® App Store or Google® Play Store.

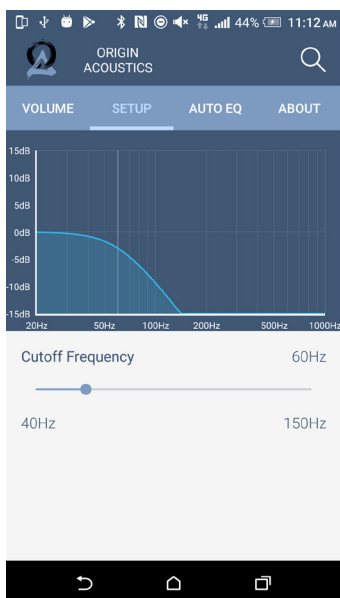
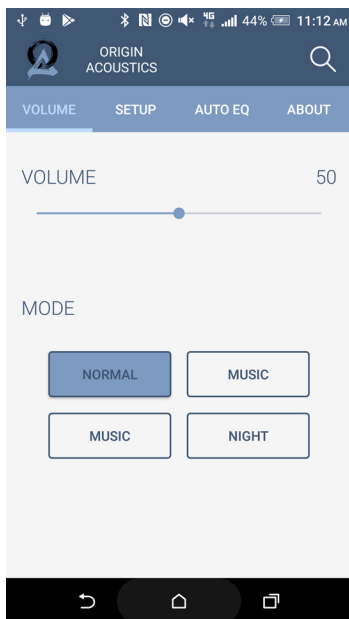
Typical analog knobs and switches have been replaced by a digital signal processor (DSP), which enables you to adjust the Deep™ subwoofer with great precision. Parameters such as volume, cut-off frequency, phase, etc., as well as the automatic calibration functions, can be adjusted with the through the app.

The app also eliminates the possibility of unwanted changes to the settings. A Bluetooth 4.0 low-energy Android or iOS device is required to set up and operate the Deep™ subwoofers. If your mobile device asks for a 4-digit code to pair with the Deep™ subwoofer, use “0000”



SET UP

In the set-up mode, you have the ability to adjust various parameters to customize the sound to your personal preferences.



ADJUSTMENTS

VOLUME: To set the output volume of the Deep™ subwoofer, slide the slider on the volume line to the desired output level. The output setting of the Deep™ subwoofer should be balanced with the volume of your other stereo/surround speakers. Avoid setting the Deep™ subwoofer output too high where it overwhelms the overall sound. Too much bass will create a blurred sound image. It is best to set the level so the sound appears to be coming from the rest of the speakers and not directly from the Deep™ subwoofer.

MODE: The app offers four sound presets, which can be selected using the “MODE” buttons. “NORMAL” is the setting for most applications. “MUSIC” adds a subtle emphasis to the low bass range, while “CINEMA” slightly boosts the “dramatic” bass frequencies around 50 Hz. The “NIGHT” mode reduces the maximum volume so that you can still enjoy bass reinforcement when listening at night.

LOW PASS

This adjustment allows you to set the frequency at which the Deep™ subwoofer will begin to perform. Providing a variable cutoff frequency with a set roll-off allows you to adjust the frequency to match your full-range speakers. You can change the cutoff by sliding the circle along the frequency line. This will depend on your listening preference and how seamlessly you want the Deep™ subwoofer to blend with your other speakers. Below is a table you can use for setting your Deep™ subwoofer cutoff.

Full Range Frequency	Cutoff Frequency
Dedicated LFE Channel	Highest Maximum Frequency
Small Full Range Speakers	80Hz - Max
Sub/Sat System in Stereo	80Hz – 100 Hz
Large Bookshelf or Tower Speakers	50Hz – 70Hz



PHASE

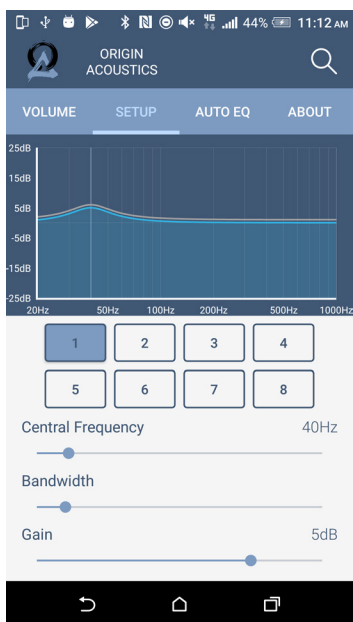
The blend of the sub and speakers is best when they are in phase with each other. The best way to adjust this is to sit in the listening position and listen to the bass response on a musical track as you make the adjustment. Pick a track that has substantial bass. As you move the slider in the app, listen for unwanted peaks and anomalies that sound unmusical. Remember, the Deep™ subwoofer will sound best when the bass it reproduces appears to come from the full-range loudspeakers.

AUTO ON/OFF

This feature automatically turns the Deep™ subwoofer on when signal is present and off when the signal is not detected for a period of time. The default setting is auto on, which is in a power-saving standby mode that continuously monitors the inputs for any signals. The LED will be very dimly lit. When a bass signal is detected through the RCA input, power is automatically turned on and the LED will become bright. If no bass signal is detected within a 15-minute period, the subwoofer will return to standby mode. Sensitivity of the auto-on function can be set from 1 - 10 mV. The correct sensitivity depends on the pre-amp or AVR used. However, a value between 3 and 6 is recommended. If AUTO ON/OFF is deactivated, the Deep™ subwoofer will remain on permanently.

PARAMETRIC EQUALIZER

The parametric equalizer gives you the ability to adjust the audio output (within the Deep™ subwoofer range) to your preference. The app lets you choose and adjust the center frequency, bandwidth, and gain. One of the most common challenges with a subwoofer is the natural resonance frequency of the room. The parametric EQ will allow you to address this problem. To reduce unpleasant resonance, identify the frequency causing it by using a test disc with test tones in the bass frequency range. Searching “audio test disc” on the internet will provide you with several options. Start by playing the bass notes in sequence. When a bass note sounds unnaturally loud, this is the room resonance that you can reduce with the help of the equalizer. To do this, set the **CENTRAL FREQUENCY** control to the frequency determined by the test disc. Select a **“NARROW”** bandwidth and reduce the **GAIN** control until the bass note is reproduced with the same apparent loudness as the other frequencies. To selectively boost a particular frequency range, you should increase the bandwidth slightly and then slowly adjust the **GAIN**, avoiding any unnatural droning effects.





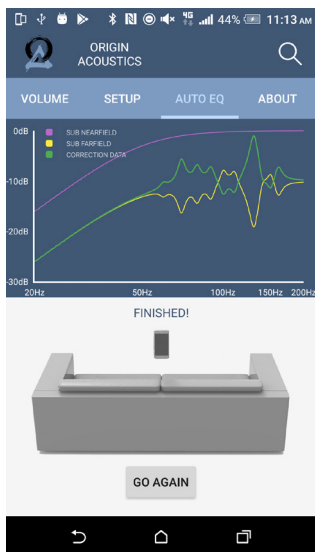
DELAY

The DELAY parameter enables you to delay playback of the Deep™ subwoofer audio signal. This is particularly helpful when the Deep™ subwoofer is placed closer to the listening position than the rest of your speakers. Increasing the delay time by 1 millisecond will have the same effect as moving the Deep™ subwoofer approximately 13 inches (33 cm) further away from the listening position. So, a setting of 20 milliseconds would be equivalent to increasing this distance by approximately 21.5 feet (6.6 meters). If you are using a surround-sound receiver or amplifier equipped with an automatic calibration function, its LFE output signal will automatically set the delay time internally so delay on the Deep™ subwoofer should be set to minimum.

AUTO EQ

Your Deep™ subwoofer is equipped with an easy-to-use and highly sophisticated automatic calibration function. This activates the Deep™ subwoofer via the APP and instructing it to play a measurement signal and uses the built-in microphone in your smartphone to show the measurement curve, within the range. Automatic room calibration is performed in two steps. The first calibrates the measurement environment, which includes the microphone and the sound reproduction chain. The second step measures the actual room frequency response. **Follow the instructions** in the APP to carry out a successful measurement. The Auto EQ measurement begins with you being asked to hold the smartphone close to the sound opening of the Deep™ subwoofer. The measurement can then be started.

Once the calibration step is completed, the actual room measurement can be performed. Do this by holding your smartphone at the listening position and start step 2. After a successful measurement, the app provides visual parameters of the measured room along with the automatically calculated filter recommendations.



Press **“APPLY”** to use the filter data to compensate for the frequency response. Press **“Redo”** to start another measurement.

Once you have accepted the measurement with **“APPLY”**, the equalization curve is retained until it is overwritten by a new measurement. You can deactivate the automatically calculated frequency response compensation at any time by switching off the **AUTO EQ** function in the **SETUP** menu.

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.

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.

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.

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

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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