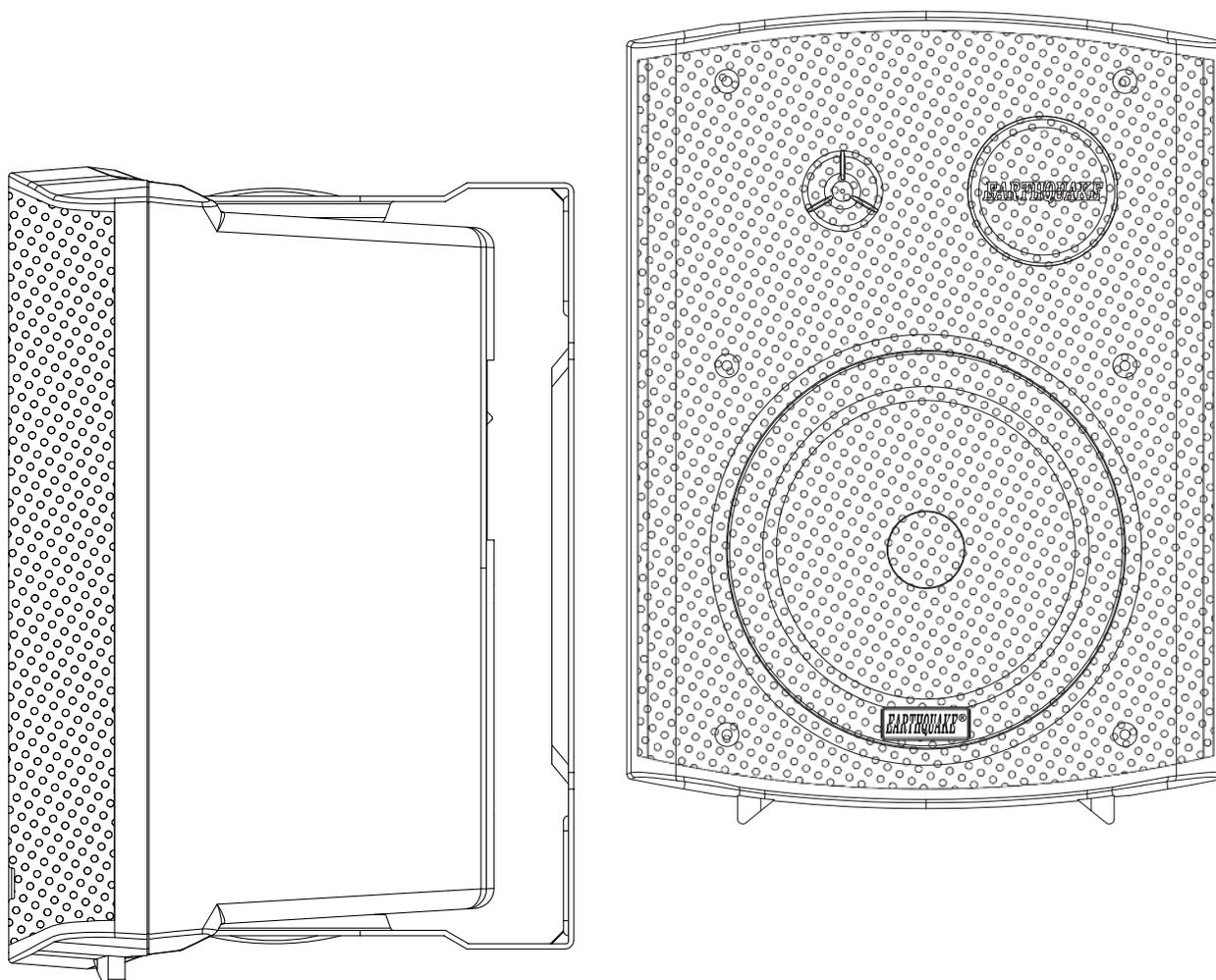




The Sound That Will Move You

AWS6-B70

Commercial Weather-Resistant
Surface Mount Speaker



User Manual

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Customer Technical Support

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The Sound That Will Move You

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This document should not be construed as a commitment on the part of Earthquake Sound Corporation.

The information is subject to change without notice.

Earthquake Sound Corporation assumes no responsibility for errors that may appear within this document.

WARNING: Earthquake Sound products are capable of generating high sound pressure levels and strongly encourage you to exercise caution during operation. Long term exposures to high levels of sound pressure will cause permanent damage to your hearing. Sound pressure levels exceeding 85dB can be dangerous with constant exposure. Set your audio system to a comfortable loudness level. Earthquake Sound Corp. does not assume liability for damages resulting from the direct use of Earthquake Sound audio product(s) and urges users to play volume at moderate levels.

Important Safety Instructions

- Read these instructions in their entirety.
- Store this manual and packaging in a safe place.
- Read all warnings.
- Follow instructions (do not take short cuts).
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings and install in accordance with the manufacturers instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments & accessories specified by the manufacturer.
- Use only with a cart, stand or table that can support the product weight, NOT RACK MOUNTABLE. Use caution when moving or positioning your rack or cart so that it will not tip over, which may cause serious injury to you or your products.
- Unplug this apparatus during a lightning storm or when unused for long period of time.
- Refer all servicing to qualified service personal. Servicing is required when the apparatus has been damaged in any way such as: power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The following symbols are used in this document:



Appears on the component to indicate the presence of uninsulated, dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.

CAUTION

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in injury or death.

WARNING

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

Note: Calls attention to information that is essential to highlight.

Five (5) Year Limited Warranty

Earthquake warrants the original purchaser that all Factory Sealed New Audio Products to be free from defects in material and workmanship under normal and proper use for a period of five (5) years from the date of purchase (as shown on the original sales receipt with serial number affixed/written on it). The five (5) year warranty period is valid only if an authorized Earthquake dealer properly installs the product and the warranty registration card is properly filled out and sent to Earthquake Sound Corporation. If a non-authorized party installs the product, a ninety (90) day warranty period will be applied.

(A) Five (5) years limited warranty plan coverage guidelines:

- **First year:** Earthquake pays for labor, parts, and ground freight (only in US mainland, not including Alaska and Hawaii) (shipping to us is not covered).
- **Second, third, fourth & fifth year:** Earthquake pays labor only. Customer must pay for parts and freight both ways.

(B) Warning:

Products (sent for repair) that are tested by Earthquake technicians and deemed to have no problem(s) will not be covered by the five (5) year limited warranty. Customer will be charged a minimum of one (1) hour of labor (at the ongoing rates) plus shipping charges back to customer. Each product sent for repair must be packaged in its original packaging. Otherwise, there will be repackaging charge in addition to labor, parts and shipping charges.

(C) Earthquake will repair or replace - at our option - all defective products/parts subject to the following provisions:

- Defective products/parts have not been altered or repaired by other than an Earthquake factory-approved technician.
- Products/parts are not subjected to negligence, misuse, improper use or accident, damaged by improper line voltage, used with incompatible products or have its serial number or any part of it altered, defaced or removed, or have been used in any way that is contrary to Earthquake's written instructions.

(D) Warranty Limitations:

Warranty does not cover products that have been modified or abused, including but not limited to the following:

- Damages to cabinet/casing finish due to misuse, abuse or improper use of cleaning materials/methods.
- Fading and or deterioration of speaker components & finish due to improper exposure to elements.
- Bent amplifier casing, damaged finish on the casing due to abuse, misuse or improper use of cleaning material.
- Burnt tracers on PCB.
- Product/part damaged due to poor packaging or abusive shipping conditions.
- Subsequent damage to other products.

A warranty claim will not be valid if the warranty registration card is not properly filled & returned to Earthquake with a copy of the sales invoice.

(E) Service Request:

To receive product service, contact Earthquake service department at (510) 732-1000 and request an RMA number (Return Material Authorization). Items shipped without a valid RMA number will be refused. Make sure you provide us with your complete/correct shipping address, a valid phone number, and a brief description of the problem you are experiencing with the product. In most cases, our technicians might be able to resolve the problem over the phone; thus, eliminating the need to ship the product.

(F) Shipping Instructions:

Product(s) must be packaged in its original protective box(es) to minimize transport damage. Shipper claims regarding items damaged in transit must be presented to carrier. Earthquake Sound Corporation reserves the right to refuse improperly packed product. Original sales receipt must accompany product returned for service. We encourage you to include with the package a written description of the problem.

Ship product to: Earthquake Sound Corp. 2727 McCone Avenue, Hayward, CA 94545. Phone: (510) 732-1000. You are responsible for the cost of shipping the product to Earthquake Sound Corporation.

(G) Disputes Resolution:

All disputes - between clients and Earthquake Sound Corporation - resulting from the five (5) years limited warranty policy must be resolved according to the laws & regulations of the county of Alameda - California.

Description

Thank you for choosing the AWS6-B70 indoor/outdoor speaker by Earthquake Sound. Renowned for their powerful audio performance, Earthquake Sound has combined their exceptional sound engineering with cutting-edge weather-resistant technology to create a speaker that is truly versatile. The AWS6-B70 is expertly designed to thrive in a variety of environments, effectively withstanding harsh sun, relentless rain, biting cold, and extreme heat—making it perfect for outdoor use, including marine settings. Excelling both indoors and outdoors, this speaker will enrich your listening experience whether you're enjoying background music, running a high-fidelity sound system, or setting up an outdoor home theater.

With over 35 years of experience in crafting remarkable audio products, Earthquake Sound Corp. has a proven track record of excellence. The AWS series was meticulously engineered to combat the wear and tear that extreme weather can inflict on traditional speakers. Its robust construction features a molded PVC weather-proof enclosure that is designed for durability, complemented by electroplating and a UV inhibitor coating. Additionally, the anti-rust aluminum grilles and brackets ensure long-lasting performance in the face of the elements, while the gold-plated speaker terminals provide reliable connectivity.

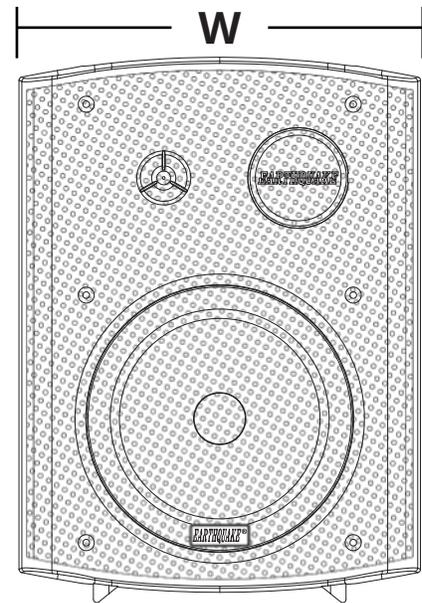
To maintain an unwavering sound quality, the AWS6-B70 speaker is built with a premium level of protection against the unpredictability of the weather. The acoustic components are precisely sealed and gasketed to keep environmental factors at bay. Its construction includes a lightweight polypropylene cone paired with a high-roll butyl rubber surround, delivering responsive sound. The PEI Mylar dome tweeter rounds out the design by ensuring clear, crisp highs. After rigorous testing, it has been proven that these materials not only achieve outstanding sound quality but also guarantee resilience in varying weather conditions. Whether used inside your home or outside in nature, AWS speakers will deliver exceptional performance and reliability for years, ensuring an unparalleled listening experience.

Features

- 6.5 in. 2-way indoor/outdoor all-season monitor speaker
- Built-in 70V/100V multi-tap transformer for commercial audio applications
- 8-Ohm bypass for home audio applications
- Rust-proof screws, brackets, and grilles
- Durable molded high-temperature PVC enclosure
- Excellent for all applications including marine
- UV-treated for high environmental endurance
- Lightweight polypropylene woofer cone with butyl rubber surround
- 3/4 in. (20mm) PEI Mylar dome tweeter
- 1 in. (25mm) ASV voice coil
- Paintable grille and enclosure to match any decor
- Versatile mounting bracket installs vertically, horizontally, or in corners
- Molded enclosure feet for bookshelf placement
- 180° directional positioning for optimal sound dispersion
- Removable port plug for extended bass response
- Gold-plated binding posts

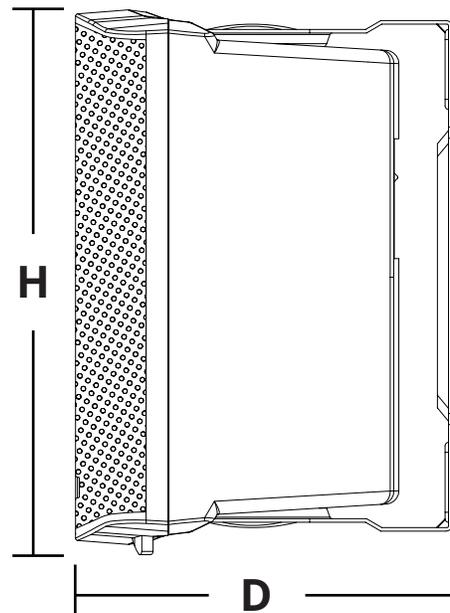
Specifications

Woofer	6.5 in. (165mm) with 1 in. 25mm ASV voice coil
Tweeter	3/4 in. (20mm)
Woofer Material	Polypropylene cone, Butyl rubber surround
Tweeter Material	PEI Mylar dome
Frequency Response (±3dB)	65Hz–20kHz
Sensitivity	96dB @ 1W/1M
Transformer Taps	70V: 30W, 15W, 7.5W, 3.5W 100V: 30W, 15W, 7.5W 8-Ohm bypass
Power Handling	8-Ohm: 200W Max 70V/100V: 30W Max
Ingress Protection Rating	IPX4
Enclosure Material	PVC (Polyvinyl Chloride)
Enclosure Finish	Matte black
Bracket Material	Aluminum
Grille Material	Aluminum
Mounting Hardware Material	Aluminum



Dimensions - Includes Bracket

Height	11.5 in. (292mm)
Width	8.5 in. (216mm)
Depth	7.12 in. (181mm)
Weight	8.22 lb (3.73 kg)



Before You Begin

Before you begin the installation of the Earthquake AWS6-B70 speaker, you will first need to decide how you intend to wire it. The AWS6-B70 provides low impedance (8-Ohm) and high impedance (70V or 100V) options, allowing you to use it for typical home audio applications or on a single line for distributed commercial audio systems. However, it is crucial that you set the impedance of the speaker correctly before any wiring. The selector on the rear of the speaker has multiple transformer taps. The position of the selector will dictate the total number of speakers for the installation as well as the amplifier to be used. Reference the manufacturer's product manual for whichever amplifier you intend to use. Failure in doing so could potentially damage the amplifier and/or speakers when not wired properly.

8-Ohm Audio System

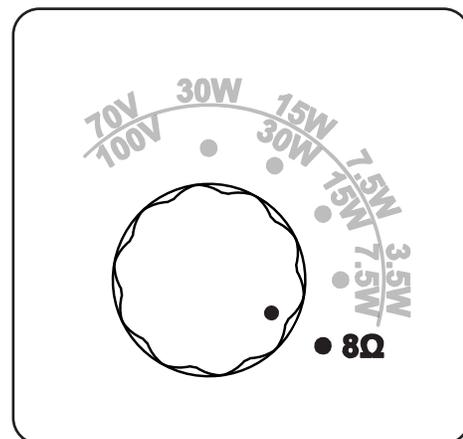
For a standard 8-Ohm home audio setup, set the rear selector to the 8-Ohm position by turning it clockwise.

70V/100V Line System

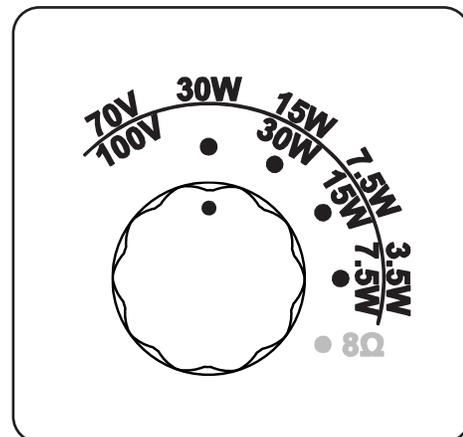
A 70V/100V line speaker system can comprise of multiple speakers connected together in parallel. The power rating of your amplifier will determine how many AWS6-B70 speakers can be used on a single amplifier. For most purposes, connecting as many speakers as needed with a combined wattage of no more than 80% of the amplifier's output power rating is advised. The terminals of a AWS6-B70 are connected to a transformer, and may be tapped for different power ratings. These tapings are used to adjust the wattage that each speaker in the line will receive from the amplifier to help achieve the ideal total power of the system. For a 70V/100V audio setup, set the rear impedance selector to the correct transformer tapping. If unsure, check the output power of the amplifier you intend to use and the manufacturer's product manual prior to wiring, mounting, and powering on of any components in your audio system. Note again that the maximum number of speakers to be placed on your distribution line is related to the power allocated to each speaker. The total wattage set on the secondary side of the transformers on your speaker line must not exceed the maximum RMS output power of the amplifier. It's crucial to be cautious and attentive to this limit, as failure to respect it may cause permanent damage to the amplifier and/or speakers.

A good rule of thumb to remember is that the total number of speakers multiplied by the transformer setting you select cannot exceed the output power of the amplifier.

Impedance Selector For 8-Ohm



Impedance Selector For 70V/100V



Installation

Installation - How To Wire AWS Speakers

To achieve optimal sound quality and stereo imaging from your speakers, it is essential to wire them correctly. While wiring can be accomplished quickly and easily, be cautious: incorrect wiring can lead to poor soundstage and bass reproduction. For speaker cables that are 25 feet long or longer, it is recommended to use 18-gauge cable or heavier. Prepare your cable for installation by stripping the ends ½ inch (12 mm) to expose the wire, and then tightly twist the ends together. If you are running cables on or through a building, make sure to use weatherproof wire that complies with local codes.

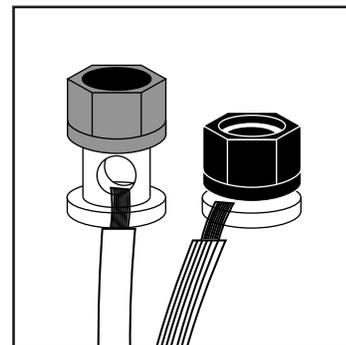
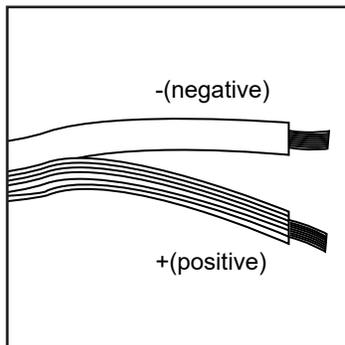
Warning

Prevent electrical shock by switching off the amplifier or receiver when making connections to the speaker/s. When making all connections, be sure to connect the positive (+) terminal on the speaker to the positive (+) terminal on the amplifier and the negative (-) terminal on the speaker to the negative (-) terminal and the amplifier.

Important

Speaker wire is usually marked or textured differently to distinguish between positive and negative.

Using the gold-plated binding posts: you can easily connect banana-plugs, spade-plugs and bare wire. Insert the wire into the hole tighten securely (do not let bare wire hang out side of hole).



Connecting to an Amplifier or Receiver

- 1) Connect the speaker terminals to the amplifier speaker outputs.
- 2) When making all connections, be sure to connect +(positive) to +(positive) and - (negative) to -(negative).

Verify That You Correctly Connected Your Speakers

It is important that your speakers are hooked up with alike polarity or “in-phase”. Use this easy test to determine if you have connected your speakers correctly. Place speakers face-to-face, as close together as possible. Set your amplifier to mono and begin listening to music, reverse the connections on one of the speakers. You should hear distinguishable change in sound. The speaker that plays louder and deeper is the one that is connected correctly.

The low Impedance (8-Ohm) and high impedance (70V/100V) are never to be used simultaneously

Installation

Volume and Power Handling Limitations

The listed power recommendations assume you will operate your system in a way that will not produce distortion (blow your speakers). Even these speakers can be damaged by a modest amplifier if it is not operated properly. If you hear distortion (harsh or crackling noise) you are overpowering the speakers and should immediately turn the volume down. Prolonged abuse caused by over powering the speakers will cause permanent damage that may not be covered by the Earthquake limited warranty.

Speaker Placement

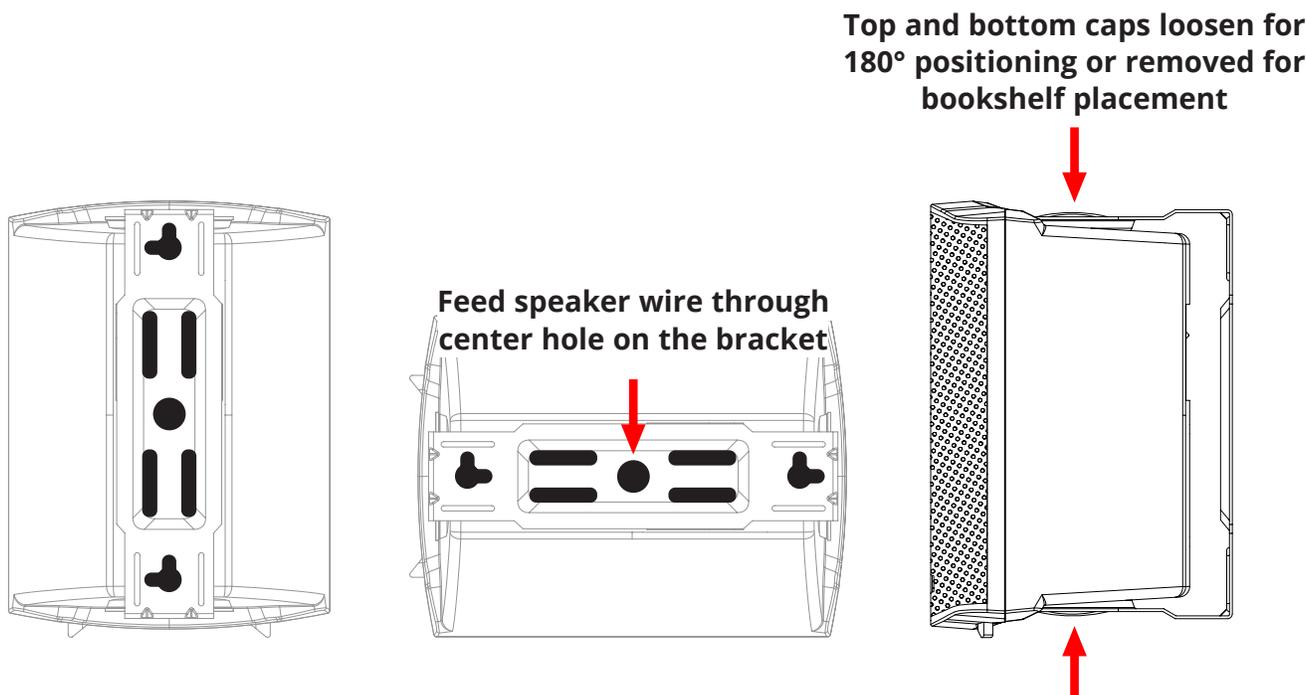
Speaker location is one of the key factors for better sound quality. Taking your time to place your speakers correctly ensures that your speakers will sound best in any indoor or outdoor situation. Stereo sound is best heard when the speakers are separated by at least 3-6ft. Usually placing speakers by a wall or other surface will increase your bass response. Outdoors, placement under the eaves of a roof reduces exposure to constant direct sunlight and precipitation, which will extend the life of the speaker.

Mounting The AWS6-B70

Before you fasten all items down, you will want to test the placement of your speakers to ensure that you are getting the best sound possible. Use the supplied bracket to mount the speaker vertically or horizontally on a chosen surface. The bracket offers multiple mounting options; key hole sockets and standard screw holes the difference is usually based on the surface type (you may want to consult with an installer regarding the proper hardware to use).

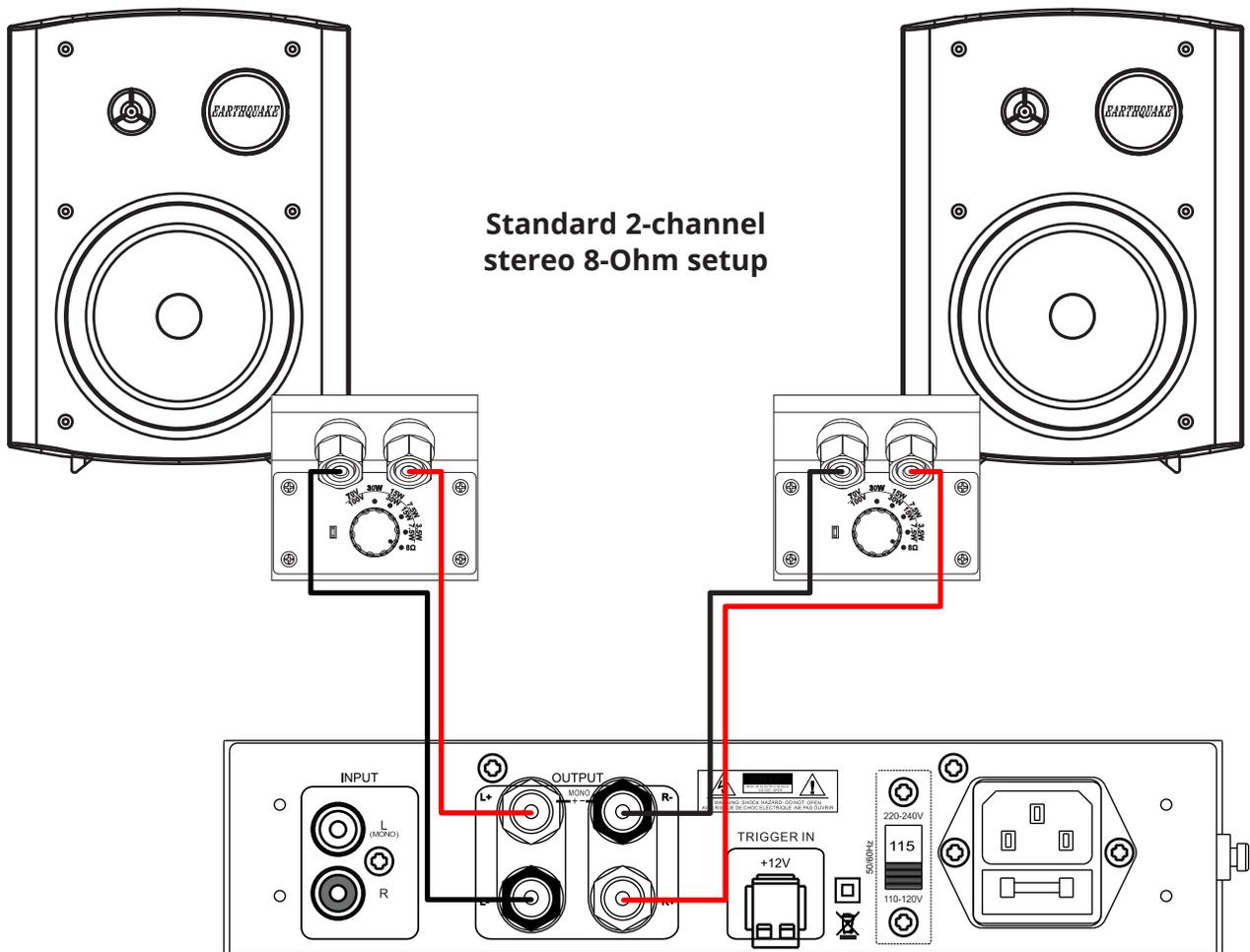
To mount, remove the bracket from the enclosure. To make wires less noticeable you can insert it from the surface through the hole in the bracket and into the connections. Mount the bracket in a desired location, and fasten the speaker to the bracket. Finally face the speaker in the direction where the sound is most needed.

Earthquake also placed two 1/4" threaded inserts on the back of the speaker for alternative mounting options. Some additional options include floor stands, hanging devices, etc. These items can usually be found at the dealer where you made your purchase or any other audio outlet.



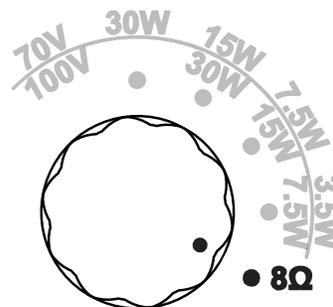
Installation - 8-Ohm System

For standard 8-Ohm audio setups, set the rear impedance selector to the 8-Ohm position by turning it clockwise. To achieve optimal sound quality and stereo imaging from your speakers, it is essential to wire them correctly. While wiring can be accomplished quickly and easily, be cautious: incorrect wiring can lead to poor soundstage and bass reproduction. For speaker cables that are 25 feet long or longer, it is recommended to use 18-gauge cable or heavier. Prepare your cable for installation by stripping the ends ½ inch (12mm) to expose the wire, and then tightly twist the ends together. If you are running cables on or through a building, make sure to use weatherproof wire that complies with local codes.



XJ-300ST Amplifier

Ensure that the impedance selector is set to 8-Ohm



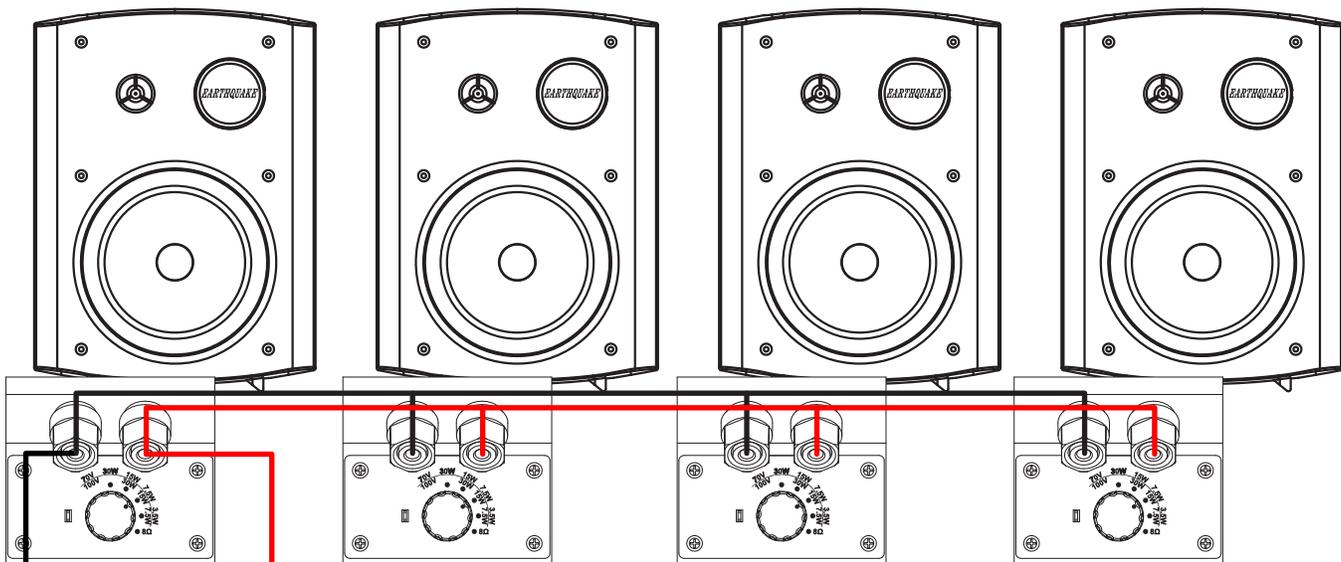
Installation - 70V/100V System

For 70V and 100V line setups, set all AWS6-B70 speakers being used to the correct impedance by turning the rear selector clockwise to a corresponding transformer tap.

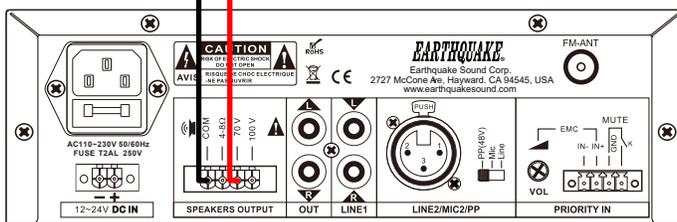
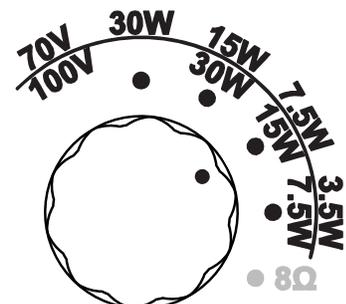
Connect the positive (+) and negative (-) output terminals of a compatible 70V/100V amplifier to the first speaker in the system using a double-insulated speaker wire, which has an adequate current rating to handle the total output of the amplifier. Connect further speakers to the first speaker, with all positive and negative terminals connected, as shown below. As stated earlier, a 70V/100V single line speaker system can comprise of multiple speakers connected together in parallel. The power rating of your amplifier and selected transformer tap will determine how many AWS6-B70 speakers can be used. For most purposes, connecting as many speakers as needed with a combined wattage of no more than 80% of the amplifier's output power rating is advised.

To achieve the best quality and imaging from your speakers, you must wire them correctly. Wiring can be quickly and easily achieved, but be aware and cautious of your work, wiring incorrectly can result in poor sound staging. 18-gauge (or heavier) speaker cables are recommended for lengths ranging from 25 feet and up. Prep your cable/s for installation by stripping the ends 1/2" (12mm) to expose wire, and tightly twist the ends. For installations that are run on or through a building, use the correct weather-proofed wire that complies with local codes. When in doubt, seek a professional installer/integrator for assistance.

Note: If using a 70V/100V mixer amplifier, you may notice a "COM" or common speaker output. This is to be used as the negative (-) terminal to wire to your first speaker in the line.



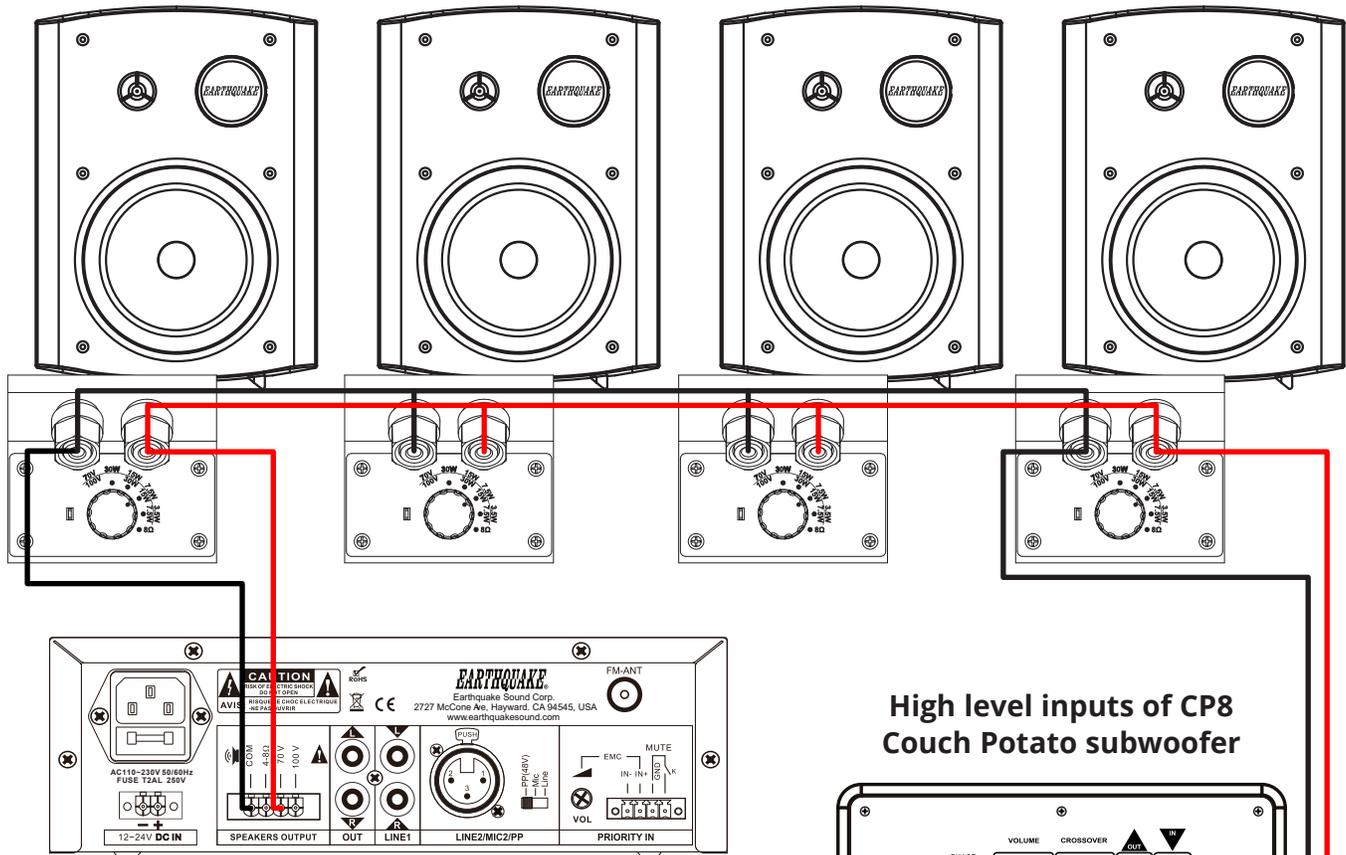
Ensure that the impedance selector is set to the correct 70V/100V tap



MXA-100BT Mixer Amplifier - 1 x 60W RMS

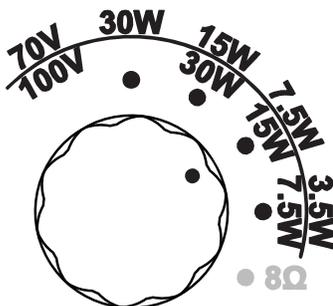
Installation - Adding More Bass

The examples below will show how a subwoofer can be added to a 70V/100V line system when additional bass is needed. As you might know, these types of systems are bass killers. This system most often has several speakers on a single line which employs a transformer to couple the speaker to the line. It is a known fact that transformers have core saturation issues which end up killing the low frequency response of speakers. To remedy this, there are two methods in which you can add a subwoofer if you feel that system is lacking bass. First, you can T off from the line and connect that to the end of a high level input of a subwoofer if it has high level inputs. The second method is to use a high to low level (RCA) signal converter such as the Earthquake HLLC-200. This method has an advantage because it contains a ground loop isolator that kills the potential of hum or buzz noise being picked up in the line. Whichever method you choose is an extremely easy solution to add bass. Earthquake manufactures several subwoofers with high level inputs that make this possible. The FF10, FF12, MKIV 10/12, CP8, and SUB-80X, and several other models.

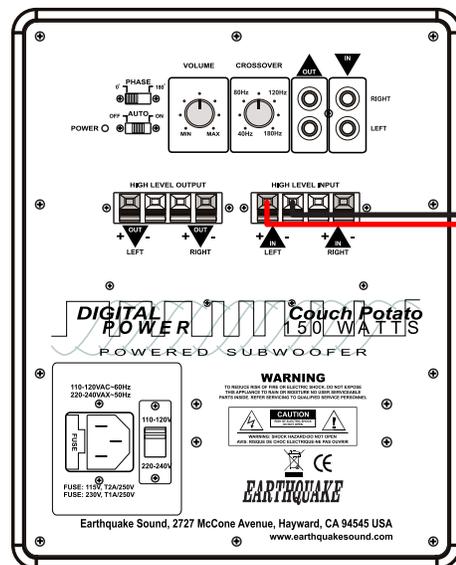


MXA-100BT Mixer Amplifier - 1 x 60W RMS

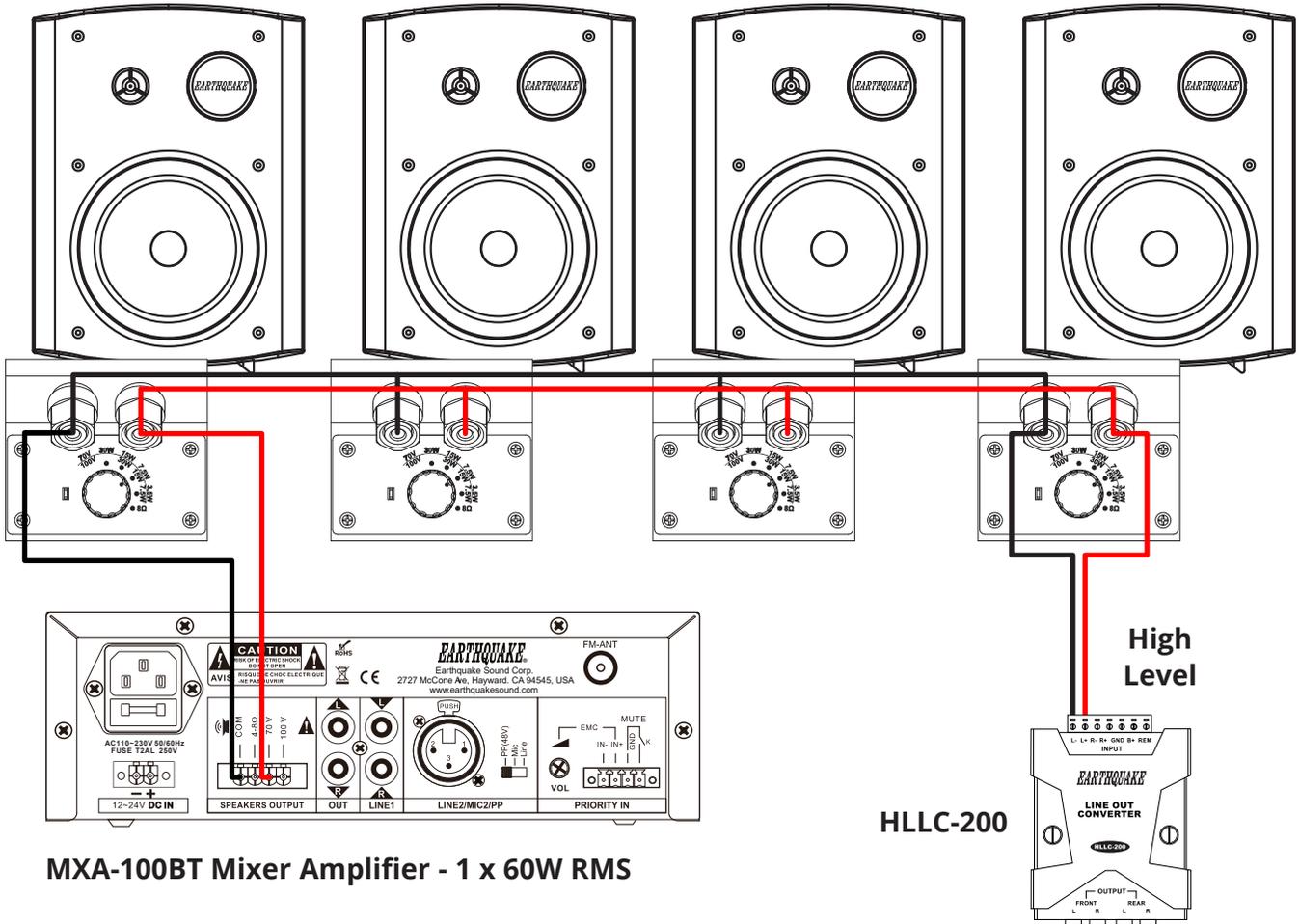
Ensure that the impedance selector is set to the correct 70V/100V tap



High level inputs of CP8 Couch Potato subwoofer

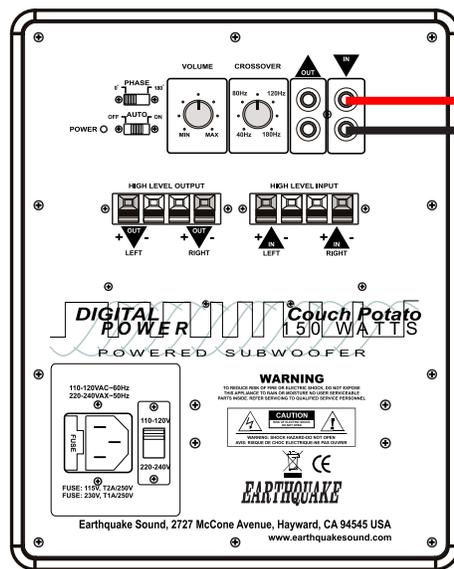
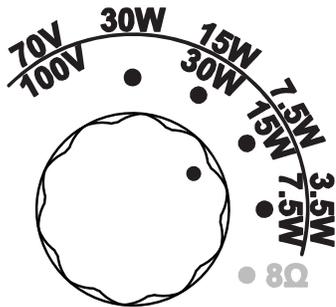


Installation - Adding More Bass Cont.



MXA-100BT Mixer Amplifier - 1 x 60W RMS

Ensure that the impedance selector is set to the correct 70V/100V tap



Low level inputs of CP8 Couch Potato subwoofer

For Your Records

Date of Purchase: _____

Authorized Dealer/Installer Info:

Name: _____

Address: _____

Phone: _____

Serial Number:



The Sound That Will *Move* You

Earthquake Sound reserves the right to amend details of the specifications without notice.

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