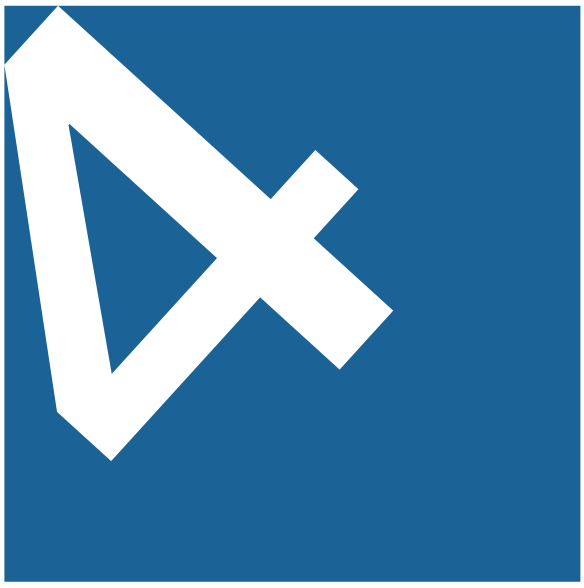


OWNER'S MANUAL

KLH

WELCOME

Thank you for selecting the KLH Model Four loudspeaker. KLH's iconic styling, acoustic suspension technology, and sophisticated quality control will provide you with unparalleled listening pleasure for many years to come.

To achieve the level of music reproduction these speakers are capable of providing requires care in installation and operation. If you are new to the audiophile world, please take the time to read this manual and follow all instructions. You will be happy you did!

If you run into any questions or need assistance along the way, please refer to the Customer Support section of this manual to reach out to our team.

Happy Listening!

The KLH Team

KLH HISTORY

KLH Audio was established in 1957 by Henry Kloss, Malcolm Low, and Josef Hofmann. Henry Kloss first made his name as part of Acoustic Research with the introduction of the AR-1 and its patented acoustic suspension system that revolutionized the high-fidelity industry. Kloss later left Acoustic Research to start KLH and immediately began marketing his own acoustic suspension loudspeaker designs.

KLH marketed a celebrated family of loudspeakers throughout the 1960s and 1970s, highlighted by the well-known Model Five and the highly regarded Model Nine electrostatic loudspeaker. The company expanded into FM radio, turntables, and beyond. Henry Kloss was a true trailblazer in the world of audio.

Today, KLH continues that legacy with a new generation of loudspeakers that honor the original designs while incorporating modern materials and engineering. The Model Four is a proud continuation of that tradition.

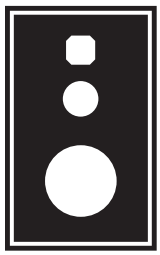
ACOUSTIC SUSPENSION

First introduced in 1954, the acoustic suspension principle has long been regarded as among the most accurate of all loudspeaker designs available. Several brands, including KLH, adopted the principle and used it in their loudspeaker designs for many years to come, and it dominated the speaker market well into the 1970s.

In an acoustic suspension design, the volume of air inside the enclosure becomes the dominant part of the woofer's suspension, acting as a cushion of air, or air spring. Because this air spring behaves more predictably than the mechanical parts of a traditional suspension, it allows the woofer's diaphragm to move in a more controlled fashion. This enables the driver to operate at higher excursions with less distortion than traditional bass-reflex designs. Acoustic suspension is recognized worldwide for its greater accuracy, tighter bass transients, and exceptional bass resolution and texture.

WHAT'S IN THE CARTON

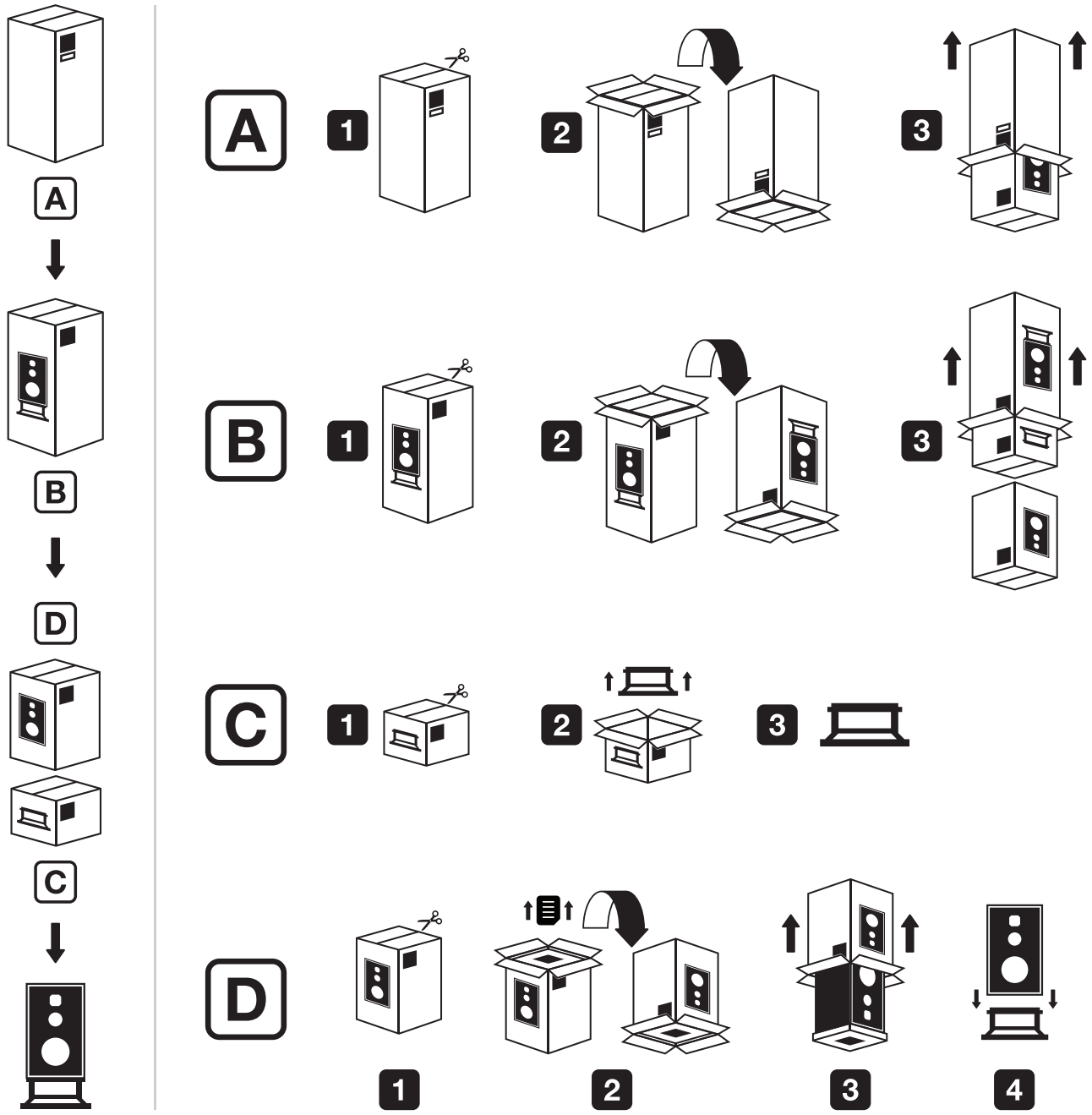
The carton contains one Model Four loudspeaker and magnetic grille, one riser base, and one owner's manual.



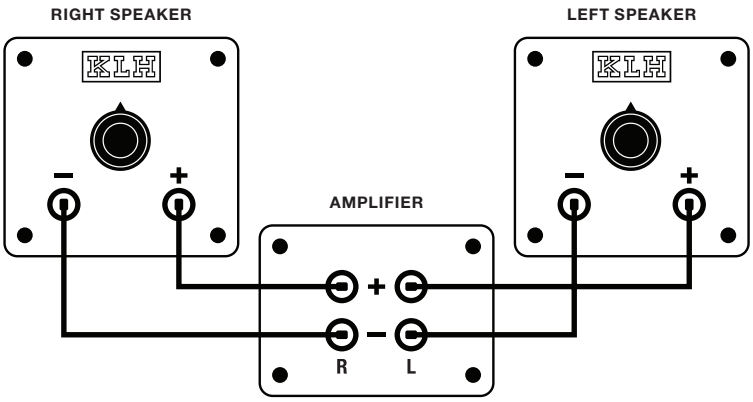
UNPACKING YOUR KLH LOUDSPEAKER

Carefully unpack the loudspeaker and riser base as shown below. It is recommended to retain packaging materials for future transport or storage. Due to the size and weight of the loudspeaker, we recommend two people for unpacking and setup. Scan the QR code to watch our unboxing video.

(A) Remove the outer shipping carton. **(B)** Remove the loudspeaker and riser base boxes **(C)** Unbox and place the riser base on a stable surface. This gives you a safe resting spot for the loudspeaker. **(D)** Carefully unbox the loudspeaker and place it onto the riser base.



CONNECTING YOUR LOUDSPEAKER

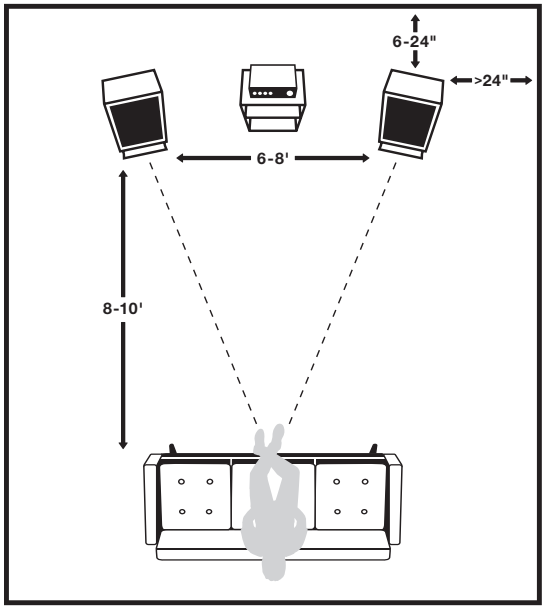


IMPORTANT! Turn your amplifier or receiver **OFF** before connecting speakers to prevent damage.

The binding posts accept banana plugs, pin connectors, spade connectors, and bare wire. Tighten firmly by hand but do not over tighten.

Using speaker cable with one of the connectors listed above, connect the red (+) terminal on your amplifier to the red (+) terminal on the back of the speaker, and the black (–) terminal on your amplifier to the black (–) terminal on each speaker. **WARNING!** Incorrect polarity will affect imaging and bass performance.

LOUDSPEAKER PLACEMENT AND ACOUSTIC BALANCE SWITCH



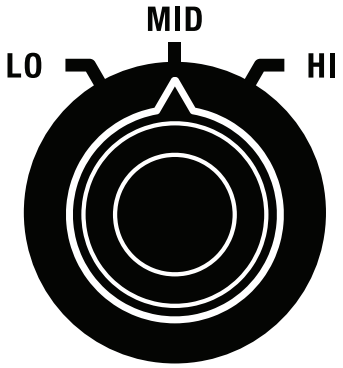
The Model Four is designed to perform well in a wide variety of rooms. Understanding a few basic acoustic principles will help you get the most out of your speakers wherever you place them. Hard surfaces like bare walls and wood floors reflect sound, while carpet and upholstered furniture absorb it. Most rooms have a mix of both, and the Model Four gives you the tools to dial in great sound regardless of your setup.

INITIAL PLACEMENT: Use the illustration as a guide when positioning your speakers. For best performance, place the speakers 6 to 24 inches from the back wall and at least 24 inches from any corner, 6 to 8 feet apart, with your listening position 8 to 10 feet away. Start with the speakers facing straight ahead (parallel to the back wall) or very slightly angled towards your listening position.

- Avoid placing the speakers near heat sources such as power amplifiers or heat registers, or in humid or dusty spaces.
- Do not place the speakers in direct sunlight or where they will be exposed to intense light.

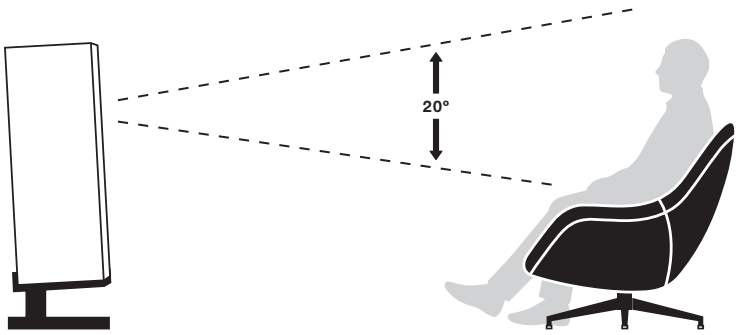
ACOUSTIC BALANCE SWITCH: Mid and high frequencies above 400Hz are mostly influenced by the reflectivity of your room and its furnishings. The three-position switch on the back of each speaker lets you fine-tune the frequencies above 400Hz to suit your room and listening preference. Always ensure both speakers are set to the same position.

- **HI:** Best for neutral to dead rooms that absorb sound, such as those with wall-to-wall carpet, plush or heavy furniture, and minimal windows or walls covered by large drapery or acoustic treatment.
- **MID (Default):** Reduces output above 400Hz by 1.5dB. A good choice for most typical listening rooms with a mix of hard and soft surfaces.
- **LO:** Reduces output above 400Hz by 3.0dB. Best for more reflective rooms with hard floors, large windows, and bare walls.



MID-HIGH FREQUENCY LEVEL

BREAK-IN AND FINE-TUNING YOUR LOUDSPEAKERS



BREAK-IN PERIOD: Your Model Four loudspeakers will sound great right out of the box. However, we recommend playing them at moderate volume for at least 8 hours before any critical listening to allow the components to fully break in.

Once broken in, use a variety of familiar music to evaluate your system. Acoustic instruments and strong vocals work best as reference material since they are the most natural and familiar to the listener. Follow the steps below to fine-tune your setup for the best possible sound.

CHECK PHASE: At your listening position, centered between both speakers, focus on the vocals of a song. The voice should appear locked firmly in the center between the two speakers, strong enough that you feel you could reach out and touch the performer. If the center image is vague or absent entirely, recheck your speaker connections for correct polarity.

EVALUATE BASS AND POSITIONING: Low frequency performance is most influenced by the speaker's position relative to the boundaries of the listening room, and small changes can have a dramatic effect on the overall balance. Using a variety of music, experiment with moving the speakers closer to or further from the back wall and corners. Moving closer will typically increase bass; moving further away will reduce it. Take your time here and listen carefully between each adjustment until you find the right balance.

FINE-TUNE MID AND HIGH FREQUENCIES WITH THE ACOUSTIC BALANCE CONTROL: Once you are satisfied with the bass balance, evaluate the overall tonal character of the sound. If the sound feels too bright or harsh, step the Acoustic Balance Switch down towards LO. If the sound feels dull or lifeless, move the switch toward HI. Give each change a few minutes of listening before making further adjustments, and remember to set both speakers to the same position.

DIAL IN TOE-IN AND SOUNDSTAGE: With the tonal balance dialed in, slowly angle the speakers inward toward the listening position until you find the best balance between a focused center image and a wide soundstage. The Model Four's wide horizontal dispersion pattern means the sonic signature remains consistent up to 20 degrees off axis, giving you plenty of flexibility. More toe-in will sharpen image focus and depth; less toe-in will open up the soundstage. When properly positioned, vocals and instruments will appear to float between the speakers in a three-dimensional space. This is the sweet spot, and when you find it, the speakers will seem to disappear into the music.

If a slight movement of your head causes the center image to shift widely side to side, the speakers may be too widely spaced or not toed-in enough.

That's it! Taking the time to work through these steps and experiment will result in an enjoyable and rewarding listening experience.

CLEANING

To clean, occasionally wipe with a soft cloth that's been lightly dampened and well wrung out, following the grain, then dry immediately with a clean cloth. Avoid circular or cross-grain motion and do not use abrasive cleaners. Keep the speakers dry and avoid placing wet objects such as drinking glasses or potted plants on top, as even a small amount of water can permanently damage the finish.

WARRANTY

Our 10-year warranty begins from the purchase date of the item (Receipt Date). Original receipt of purchase must be retained for proof of purchase. For warranty or service issues, please contact your authorized KLH dealer where you purchased your speakers. The warranty covers any production and/or material defects of the product. This warranty is non-transferable.

The following is NOT COVERED by the warranty:

1. Accidents, misuse, poor maintenance, electrical overloads such as lightning or voltage.
2. Incorrect use of the product.
3. Altered serial number.
4. Transportation costs for the service call.
5. Purchase of KLH products from an unauthorized reseller.

If a replacement is required, the replacement item cannot exceed the cost of the item under warranty. The supplier is responsible for only repair or replacement.

CUSTOMER SUPPORT

Scan for customer support information or call 1-877-483-2497.
KLH and the KLH logo are registered trademarks of Innovative Technology Electronics, LLC.

DECLARATION OF CONFORMITY

You can download the complete EU conformity declaration from www.klhaudio.com/eudoc
This device complies with the essential requirements and other relevant provisions of ROHS directive: 2011/65/EU

The New Recast WEEE Directive (DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

1. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
2. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
3. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service.

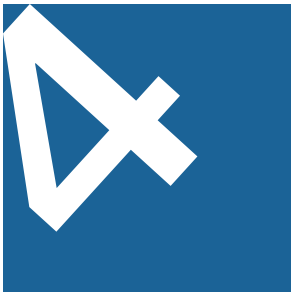
ADDITIONAL LANGUAGES

(EN) For more languages, scan the QR code or visit klhaudio.com/manuals. **(FR)** Pour d'autres langues, scannez le code QR ou visitez klhaudio.com/manuals. **(ES)** Para más idiomas, escanee el código QR o visite klhaudio.com/manuals. **(DE)** Für weitere Sprachen scannen Sie den QR-Code oder besuchen Sie klhaudio.com/manuals. **(IT)** Per altre lingue, scansiona il codice QR o visita klhaudio.com/manuals. **(PT)** Para mais idiomas, digitalize o código QR ou visite klhaudio.com/manuals. **(JP)** 他言語版は、QRコードをスキャンするか klhaudio.com/manuals をご覧ください **(CN)** 更多语言版本，请扫描二维码或访问 klhaudio.com/manuals.

SPECIFICATIONS

Frequency Response	46Hz – 20,000Hz +/- 3dB
Low Frequency Extension	-10dB @ 35Hz
In-Room Sensitivity	88dB @ 2.83V / 1M
Free-Field Sensitivity	85dB @ 2.83V / 1M
Power Handling	150 Watts / 600 Watts Peak
Recommended Amplification	30 Watts to 150 Watts
In-Room Maximum SPL	108dB
Maximum Output @ 45Hz	101dB
Impedance	6 Ohms (3.5 ohm minimum @ 120Hz)
-6dB Horizontal Dispersion	140 degrees
Features	Three-Position Acoustic Balance Control
Crossover Frequency	MF: 380Hz (2rd order electro-acoustic) | HF: 2,500Hz (2rd order electro-acoustic)
High Frequency Driver	1” Aluminum Dome with Soft Rubber Surround
Mid Frequency Driver	4” Pulp-Paper Cone with Reverse Roll Rubber Surround
Low Frequency Driver	8” Pulp-Paper Cone with Reverse Roll Rubber Surround & 1.5” Diameter Flat-Wire Voice Coil
Enclosure Material	Structurally Reinforced ¾” and 1” Medium Density Fiberboard
Inputs	Five-Way Gold-Plated Binding Posts
Weight	47lbs. (21.3kg) w/ Included Riser Base | 39.5lbs. (17.9kg) w/o Riser Base
Height	32.2” (81.8cm) w/ Included Riser Base | 26” (66.0cm) w/o Riser Base
Width	13” (33.0cm)
Depth	11” (27.9cm) w/ Included Riser Base | 8.25” (21.0cm) w/o Riser Base
Included Accessories	6-Degree Riser Base

Specifications subject to change without notice



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