

TROUBADOUR SPEAKER SYSTEM

Owner's Manual



JONES AND CERRETA
LOS ANGELES

**Inside Front
Cover**

Our Mission

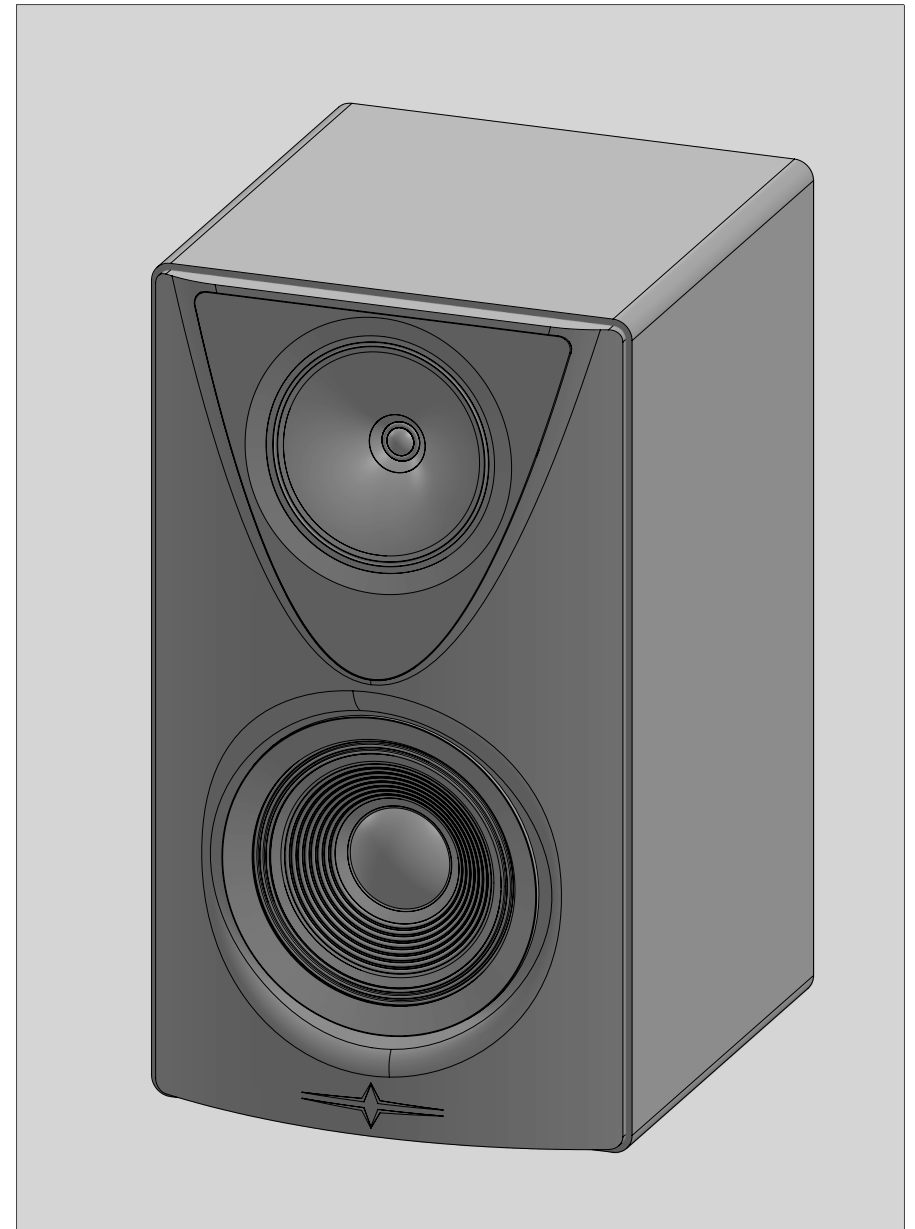
Our speaker systems not only create an emotional connection to the music with next level sound, they are designed to be a showpiece in your home. Engineered with the discerning listener in mind, our speakers are an unexpected departure from most other loudspeakers available today. While the technology is new, our original focus remains unchanged: design in service to the music.

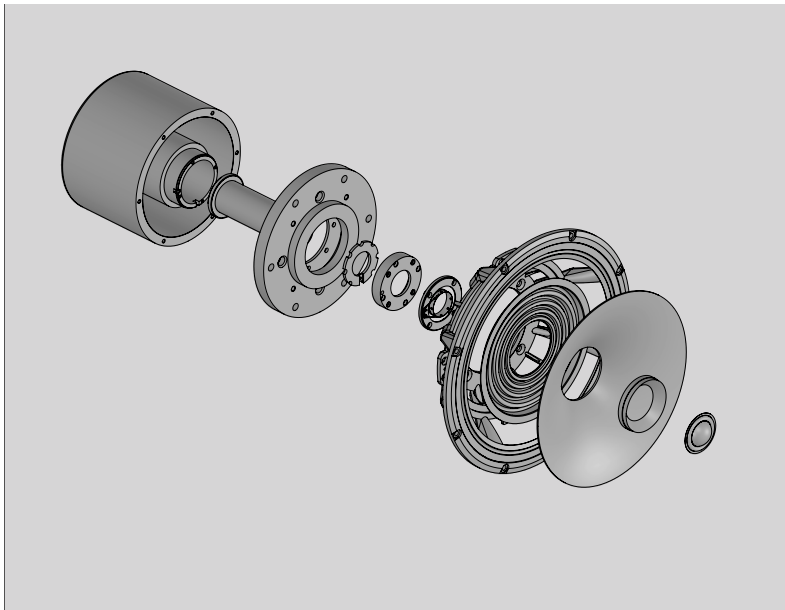


Troubadour

Congratulations on purchasing one of the most innovative loudspeaker systems available today. Although operating similarly to an ordinary passive speaker, there are some significant differences that define this speaker as something new and significant.

Instead of relying on a standard permanent magnet, the dual concentric driver uses a dual field coil electromagnet to provide the flux against which the voice coil reacts. Field coil drivers have long been revered not simply for what they are, but for how they sound. They deliver a level of clarity and dynamics that translates directly into the listening experience. Dynamics feel unrestrained, tone carries natural weight and color, and music flows with an ease that avoids strain or compression. Subtle details — the texture of a voice, the decay of a note — emerge intact, giving recordings a sense of life and presence.





Field Coil

A field coil is another name for an electromagnet.

Since the invention of the moving coil loudspeaker in the late 1920s, and until the development of modern magnetic materials such as Alnico, ceramic, and neodymium, loudspeakers had required a dedicated external Direct Current (DC) power supply to energize the field coil. Without this external power supply, the electromagnet remains inactive, no magnetic field is generated, and the voice coil will remain completely motionless even if a signal is applied to the voice coil.

Modern day magnetic materials obviated the need for a field coil. The magnets provide a constant field without the need for constant power. Loudspeakers became much more practical, consumed less power and therefore ran cooler, were smaller and lighter, and could be produced at lower cost.

However, there is a growing realization that we lost something in potential sound quality when we abandoned the field coil in favor of permanent magnets.

Troubadour is our re-interpretation of the classic field coil, but re-imagined with the experience of decades of loudspeaker design knowledge. It embodies concentric drive unit technology along with concentrically wound field coils in a design that has never before been brought to the market.

PS-1S27V-V1 Power Supply

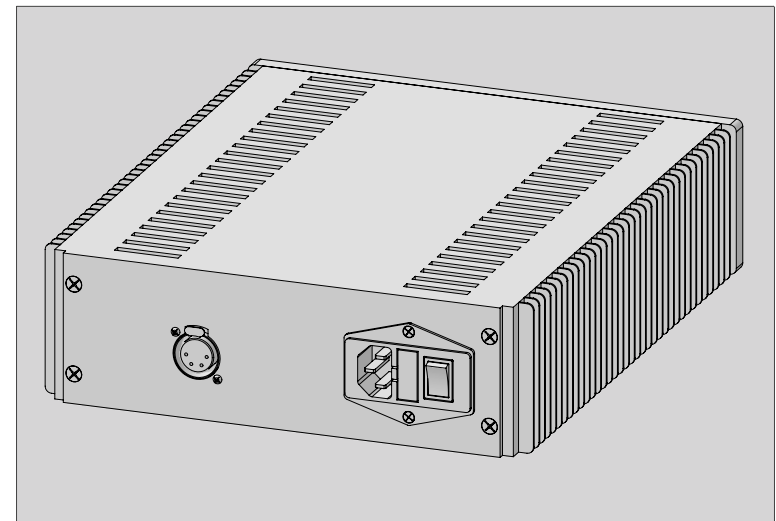
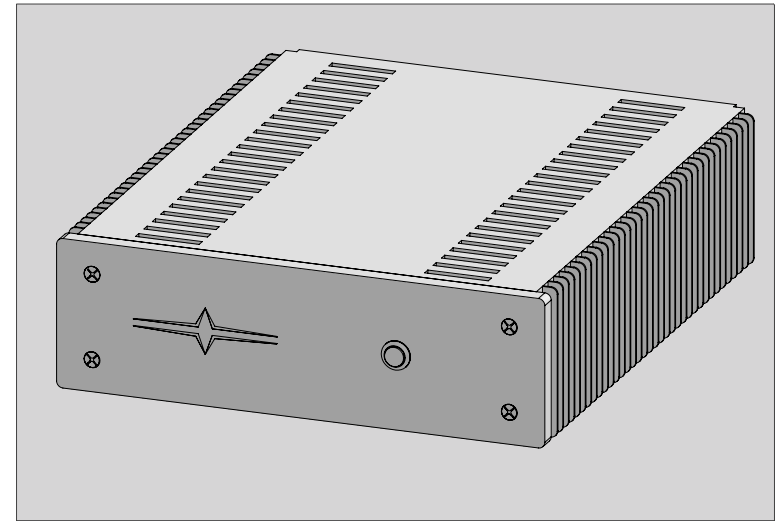
The Troubadour power supply is custom designed and manufactured in the USA.

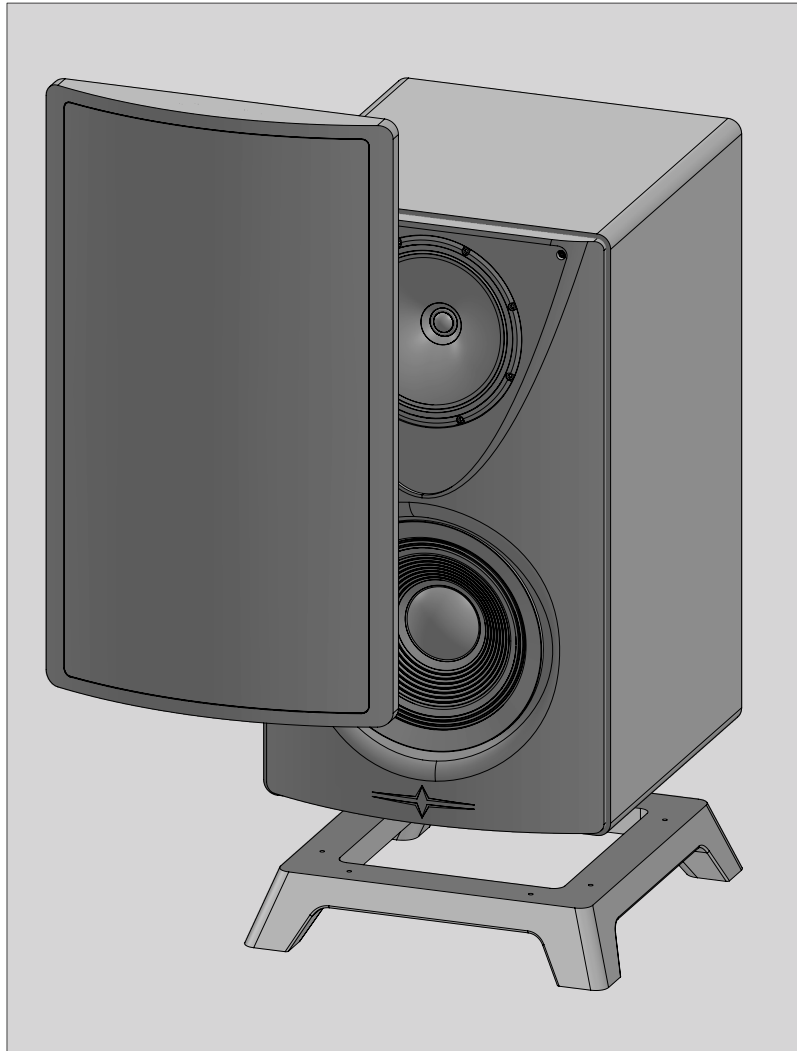
It is a low noise linear supply that provides the power required to energize the field coils.

On the back panel of the power supply is a power switch, an IEC input socket for the power cord, and an output socket that connects to the loudspeaker using the provided cable to feed the power to the field coil. When the rear power switch is off, the power supply will remain off.

If the rear power switch is on, the power supply utilizes auto on and off. When the system detects a signal indicating music is playing, it will immediately turn on. The light around the front panel switch will turn Amber in color to indicate power is being provided. 20 minutes after the music stops the power supply will automatically set to standby mode to reduce power consumption, but in this mode is always ready to turn back on immediately music is detected.

On the front panel there is a momentary action push button switch. To power the field coil prior to playing music simply press the front panel switch and that will turn the power supply on.





Attaching the Grilles

The grilles attach magnetically to the speakers. To affix, simply hold a grille by its edges and hold it up next to the front baffle. It will automatically pull itself to the baffle and self-locate. To remove it, hold the edges and pull it away from the baffle. When listening we recommend removing the grilles for the best listening experience. Around small children, and while not in use, we recommended leaving the grilles on to protect the drive units.

Attaching the Stand

Unpack the stands and place them close to the listening location.

Turn the speaker upside down on a soft scratch free surface such as carpet. Set the stand on top of the speaker and line up the holes in the stand with the screw inserts in the cabinet. The accessory pack contains eight flat head M6 bolts. Insert these through the holes in the stand and screw them down until tight. Don't overtighten. Now carefully lift the speaker/stand upright and move into position.



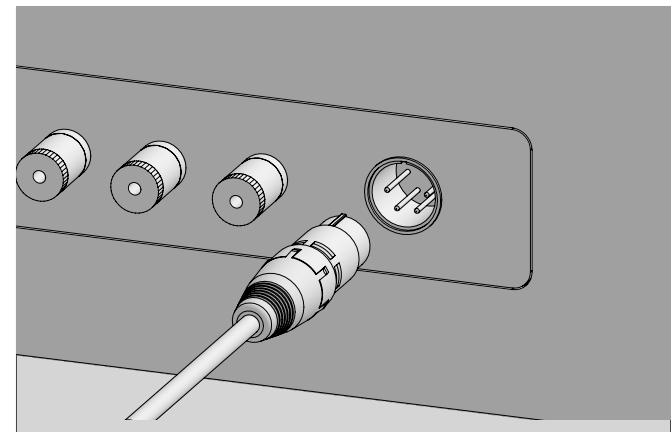
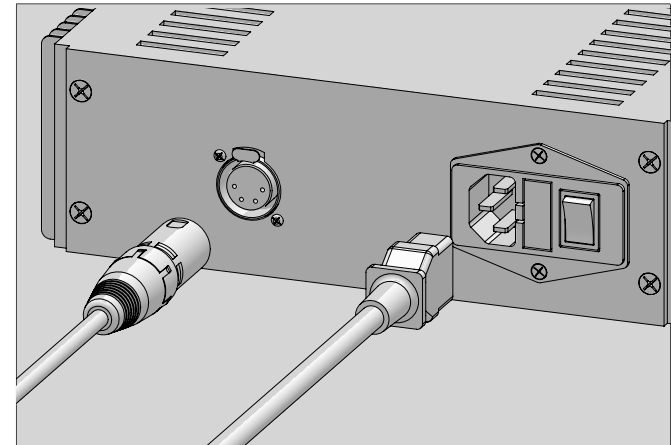
Do not lift the speakers by putting your hands into the rear vents to use as "handles". You may damage them.

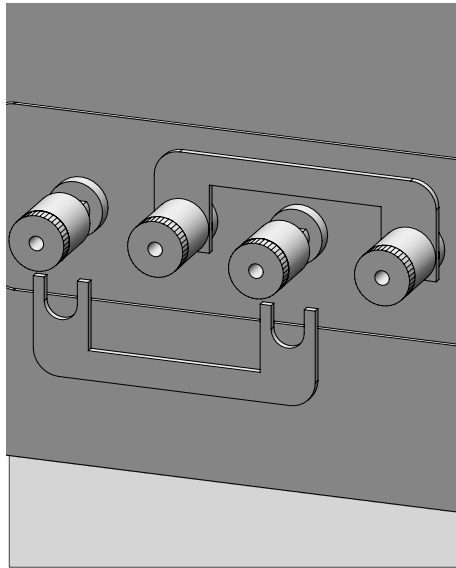
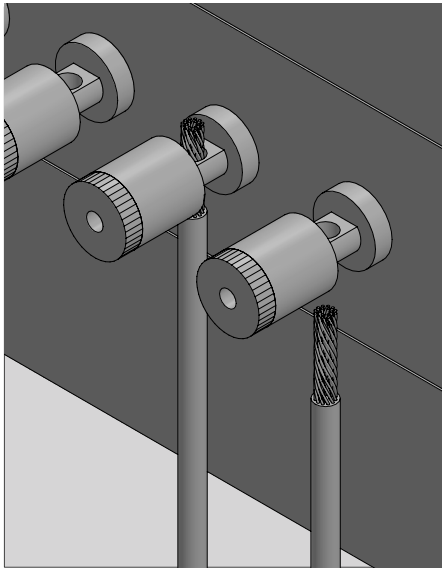
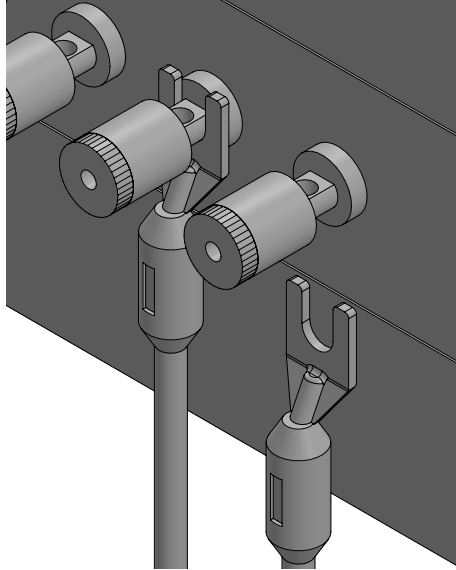
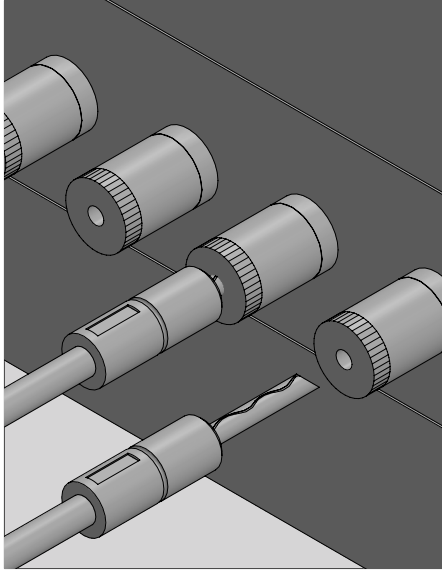
Powering Your Speakers

Place each power supply in a well-ventilated location and make sure the rear rocker switch is in the OFF position. There is one power supply for each speaker. The supply can be placed in your equipment rack or located underneath or to the rear of its associated speaker.

Connect an IEC power cable to each power supply and plug it into an appropriate AC outlet. Then connect the provided 4-pin XLR speaker power cable between the power supply and its speaker. Two speaker power cables are included with each speaker. Use the cable lengths that best fit your installation or connect two cables together in line to extend the reach if needed. DO NOT use any third party 4 pin cable unless it has been approved by Jones and Cerreta or an authorized dealer.

With the speakers connected to their power supplies, you're now ready to connect them to your amplifier.





Connecting to Your Speakers

Before connecting the speaker cables, make sure your power amplifier, integrated amplifier, or receiver is turned OFF. If you're using a tube amplifier with multiple output taps, connect the speakers to the 4 ohm or 6 ohm output if available.

Your speakers feature dual pairs of binding posts for bi-wiring or bi-amping. Factory-installed jumper straps connect the terminals and should remain in place unless you choose to bi-wire or bi-amp. Consult your dealer or manufacturer for advice if you wish to do this.

For standard single amplifier configuration connect the positive (+, red) terminal on the amplifier to the positive (+, red) terminal on the speaker on the speaker marked as MF+, then connect the negative (–, black) terminal to the corresponding negative terminal on the speaker marked MF–.

If you're using bare wire, strip approximately 3/4 in. (19 mm) of insulation from each conductor. Twist the exposed strands tightly, insert them into the binding post, and tighten the terminal securely. Check that no stray wire strands are touching the adjacent terminal.

After all connections are complete, switch the power supplies ON using the rear rocker switches, then press the front power buttons. Once the power indicators are illuminated, turn on your audio system and begin listening. For normal operation, leave the rear rocker switches in the ON position.

Adjusting the Sound

Speaker Placement

Proper speaker placement is essential for the best sound quality. Because every room is different, you may need to experiment with placement to find what sounds best.

Start by positioning the speakers 1–3 ft (30–90 cm) away from walls and corners. Placing speakers too close to a wall can increase bass output, making the sound boomy or uneven.

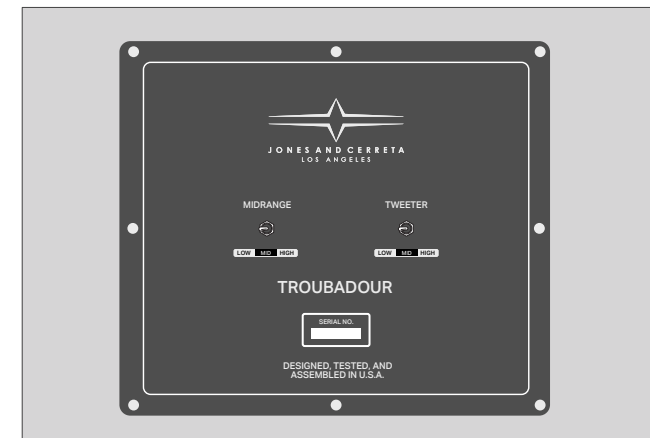
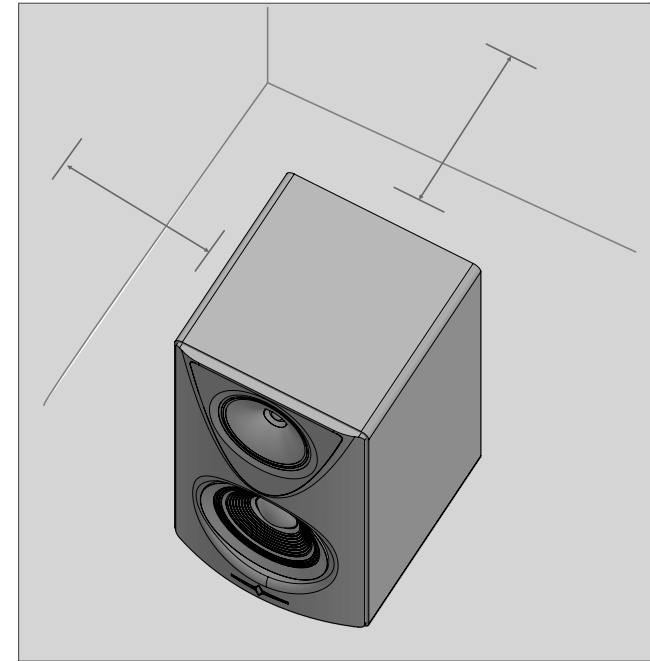
After initially positioning the speakers, listen to familiar music and make small position adjustments. Even moving the speakers a few inches can make a noticeable difference.

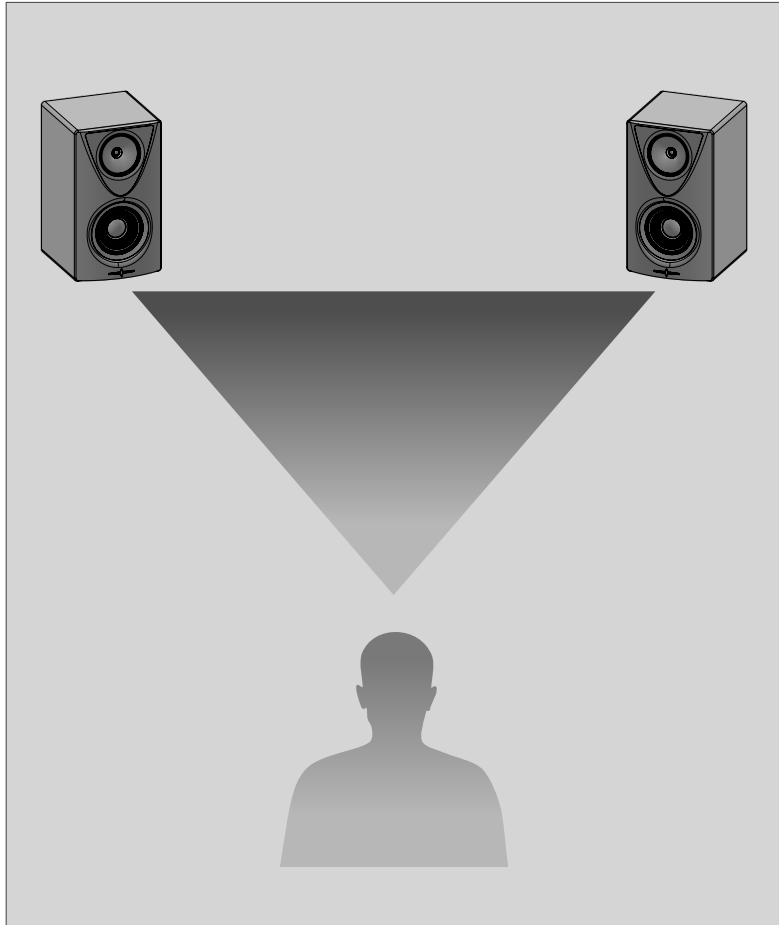
When positioned optimally the bass should sound smooth and balanced, while voices should be clear and natural. Continue to move and experiment until you get the sound you prefer.

You may also need to move your listening position.

Tone Switches

Your speakers include two rear-panel switches labeled Tweeter and Midrange. These switches provide subtle adjustments to the high and midrange frequencies, allowing you to fine-tune the sound to suit your room and personal preference and balance the sound. Each switch provides just under a +/- 1 dB adjustment range.





Optimizing Stereo Imaging

Proper speaker placement can create a wide, realistic soundstage with clear, focused vocals and instruments.

Start by placing the speakers and your listening position so they form an equilateral triangle, with each side the same length. Then angle (toe-in) the speakers toward your listening position.

Speakers with concentric drivers perform best when the cabinets face almost straight down the room or their axes cross slightly behind the listening position. Try both settings while listening to familiar music. Choose the one that provides the widest soundstage and the most natural, well-focused center vocals.

You can also experiment by moving the speakers closer together or farther apart. After each adjustment, listen for changes in the stereo image and overall balance. If the speakers are moved farther apart and closer to the side walls, increasing the toe-in angle can help maintain accurate imaging.

Small changes in speaker position can make a noticeable difference. Take your time and choose the arrangement that sounds best in your room and matches your personal listening preference.

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



AVIS RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING - TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

To prevent the risk of electric shock, do not remove cover or back. No user-serviceable parts inside.

General Safety and Installation

- Read these instructions before using the product.
- Do not use this product near water.
- Do not block ventilation openings. Use products only in a well ventilated location.
- Never operate the speaker if any of the components are removed from the speaker or power supply.
- Any time you directly handle the speakers, do not place your hand or fingers on the driver cones.
- Do not place the speakers in areas that may be in direct sunlight; have high humidity; are too hot or cold; or that block ventilation openings.
- Do not place the speakers or power supplies near heat sources such as radiators, valves, stoves, or other heat-emitting apparatus (including amplifiers).
- To prevent overload, avoid playing the speakers at extreme volume levels for extended time periods, particularly if left unattended.
- Clean the speakers with soft, smooth cloth or with a dust brush. Do not use scouring agents, alcohol, benzene, furniture polish, or other agents.
- Do not install the speakers or power supplies in a closed rack or in a closed cupboard.
- Continuous high volume may also cause severe damage to your hearing.
- Do not place speakers or power supplies on furniture that are prone to vibration.
- If the speakers are placed on a piece of furniture, place an anti-slip pad or mat under each speaker.
- Avoid placing anything on top of the speakers, especially products with rubber feet, which may damage the finish.

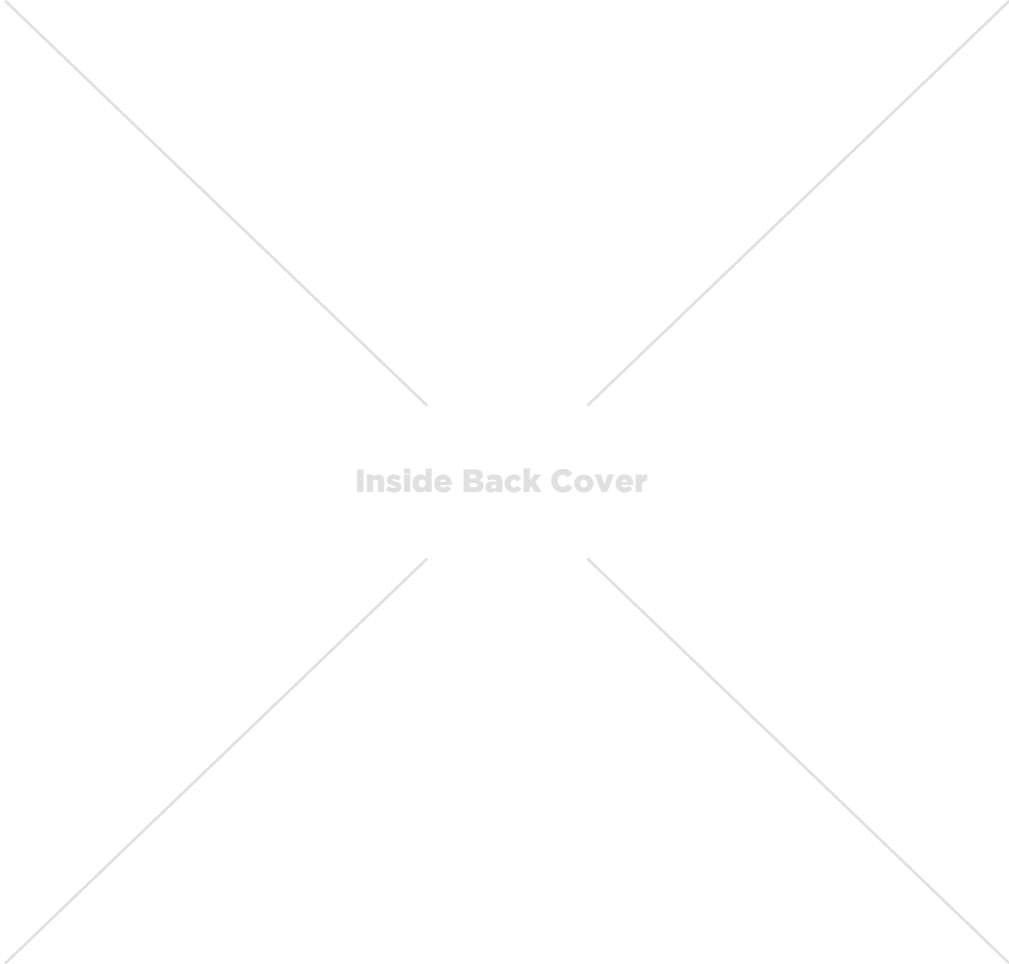
General Safety and Installation Continued

- Do not bypass the safety features of the polarized or grounding plug. If the supplied plug does not fit your outlet, have a qualified electrician replace the outlet.
- Connect the power cord only to a properly grounded AC outlet.
- Route the power cord to prevent it from being walked on, pinched, or damaged, especially at the plug, outlet, and where it exits the product.
- Refer all servicing to qualified personnel. Service is required if the equipment is damaged, such as a damaged power cord or plug, liquid or objects entering the unit, exposure to rain or moisture, abnormal operation, or if the unit has been dropped.
- **WARNING:** If you mount the speakers on stands, ensure they are stable to avoid the possibility of tipping over and causing potential damage or injury.
- **WARNING HOT SURFACE:** Do not touch the metal piece that surrounds the tweeter at the center of the upper driver. Install grilles if children are present to avoid injury.



TROUBADOUR

Frequency Range	34Hz - 30kHz
Nominal Impedance	6 Ohms
Sensitivity	95dB/2.83V/1m
Crossover Frequency	120Hz and 1.0 KHZ
Max Power Input	100W
Tweeter	1.25" wide roll soft dome
Midrange	10" Paper Cone
Woofer	12" Paper Cone
System Configuration	3-way vented box, concentric field coil midrange driver
Cabinet Finish	Satin black baffle / Satin real wood walnut veneer / Brushed aluminum trim panel and rings
Binding posts	5-way, bi-wirable
Dimensions (W x H X D)	20" x 23.25" x 38.4" (508mm x 591mm x 975mm) with grille, with stand 20" x 22.25" x 34.4" (508mm x 565mm x 874mm) without grille/without stand
Weight	27.9lbs / 12.7kg



Inside Back Cover

