

STRATTON

ACOUSTICS

ELEMENT 12 OWNER'S MANUAL



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ACOUSTICS

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Welcome to a the next level of musical enjoyment and passion; welcome to Stratton Acoustics.

Thank you for choosing the Element 12. You have selected a loudspeaker that is engineered to inspire, delivering the full emotional depth of any type of music with remarkable versatility. Built to endure both today and for decades to come, it combines extraordinary sound with lasting durability.

The Element 12 is the result of exemplary design, meticulous engineering, and precision manufacturing; built around uncompromising acoustic performance and hand-finished craftsmanship.

To help you get the most from your Element 12s, we recommend you take time to read through this manual. It explains how best to set up & integrate these loudspeakers, and how to ensure they perform exactly as intended, with precision, control, and musical gravitas.

If you have any further questions, your dealer or our team will be happy to assist. When correctly positioned and partnered, the Element 12 will bring you the complete, lasting emotional weight of your music and for the generations who will hear it next. We are proud to support that journey.

David Fowler, Co-founder

ABOUT ELEMENT 12

The Element 12 is a substantial 2-way, dual bass reflex loudspeaker, designed to uncover the full emotional depth and detail of music.

It delivers this through the same seven design principles found in every Stratton Acoustics loudspeaker:

- Low distortion
- High sensitivity
- Flat frequency response
- Wide bandwidth
- Easy-to-drive impedance
- Huge dynamics
- Ultra-rigid cabinet structure

At its core is a custom 12-inch mid-woofer, made to our specifications, using a carbon-reinforced paper cone and neodymium magnet, designed to reproduce the majority of the musical signal with speed, weight, and control. High frequencies are handled by our patented, isolated 29mm soft dome tweeter, waveguide-loaded for wide dispersion and seamless integration. It delivers clarity and extension without harshness; detailed but never detached.

The cabinet is built from a laminated core of torrefied bamboo, heavily braced and shaped using advanced CAD and FEA modelling. It's engineered to stay acoustically silent, allowing the drivers to sing — with no coloration or energy loss from the enclosure.

Bass is managed through two downward-firing reflex ports, venting into the controlled air volume beneath the speaker, within the integrated stand. Designed to let long wavelengths pass freely, the stand preserves bass clarity and prevents the room from colouring the sound.

THE HIGHLIGHTS:

- 12" custom paper-carbon mid-woofer
- Patented isolated waveguide tweeter (29mm soft dome)
- Dual enclosure design with isolated tweeter cabinet
- Ultra-rigid torrefied bamboo cabinet construction
- Dual downward-firing reflex ports
- Precision crossover in isolated sub-chamber
- 8mm thick CNC machined aluminium facia panels for rigid, resonance-free driver mounting

GLOSSARY WARNING SYMBOLS & WORDS

The following warnings, symbols and warning words are used in this document:



The general danger symbol in combination with the warning words **CAUTION**, **WARNING** and **DANGER** warns of the risk of serious injury. Follow all of the subsequent instructions to avoid injury or death.



The flash symbol in combination with the warning word **DANGER** warns of a life-threatening electrical voltage.



This warning symbol in combination with the warning word **CAUTION** warns of high-intensity sound.



ATTENTION:

indicates a hazard that could damage or destroy the device.



CAUTION:

indicates a hazard that poses a low or moderate risk of injury.



WARNING:

indicates a hazard that could cause serious injury or death.



DANGER:

indicates a hazard that will result in immediate death or serious injury.

IMPORTANT NOTES



CAUTION! RISK OF INJURY TO CHILDREN

This device poses various injury risks if used improperly. This device is not intended for use by children.

- Never leave your children alone with the device unattended.



OPENING THE LOUDSPEAKERS

There are no parts inside the device that can be serviced by the user.

- Do not open the loudspeakers.



DANGER!

Dangerous voltages The speaker outputs of a power amplifier may carry potentially fatal voltages.

- Do not touch the speaker connectors on the device and loudspeaker.



CAUTION! HIGH-INTENSITY SOUND

Loud output signals can damage your hearing.

- Set the connected amplifier to a low volume before switching it on.
- Avoid listening at high volume levels for long periods of time.



UNPACKING YOUR LOUDSPEAKERS



1. Carefully remove the loudspeakers from the packaging.

ATTENTION! DAMAGING THE HOUSING

To avoid damaging the housing, do not use any pointed or sharp objects to open the packaging.



CAUTION! RISK OF INJURY DUE TO HEAVY WEIGHT

The loudspeaker is very heavy and can cause injuries when falling.

The device should only be unpacked and set up by persons who are experienced in handling heavy loads.

If necessary, have a second person help you unpack and set up the speakers.



2. Remove all the packaging materials and padding from the device.

WARNING! SUFFOCATION HAZARD!

Remove the packaging from the vicinity of children.

3. Keep the packaging for later transport.

SCOPE OF DELIVERY

Each Element 12 pair includes:

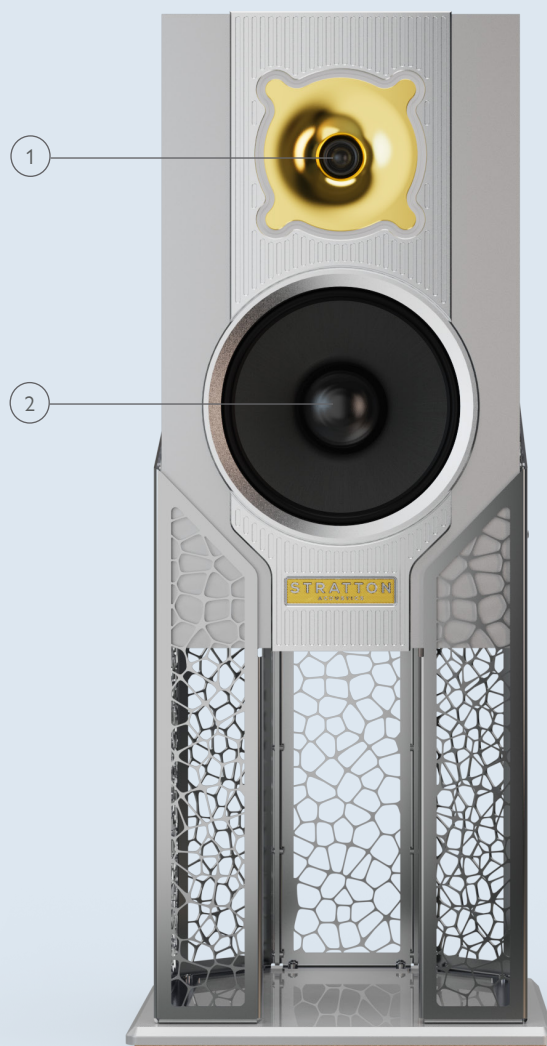
The scope of delivery of a pair comprises:

- 2 x Element 12 loudspeaker (boxed)
- Operation manual
- Warranty certificate

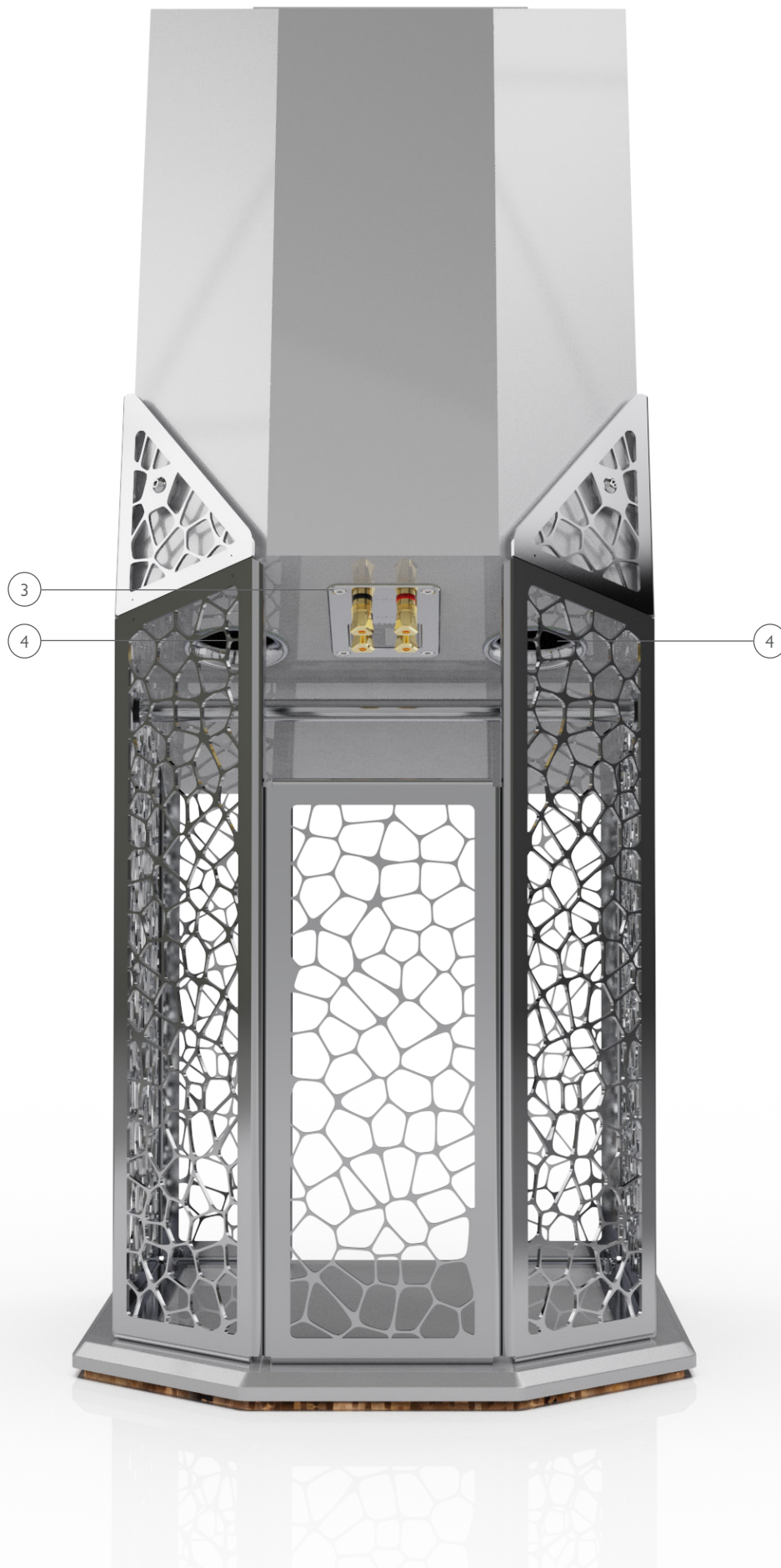
Please inspect all items for completeness and damage. If anything is missing or appears damaged, contact your dealer before proceeding.



OVERVIEW OF THE ELEMENT 12



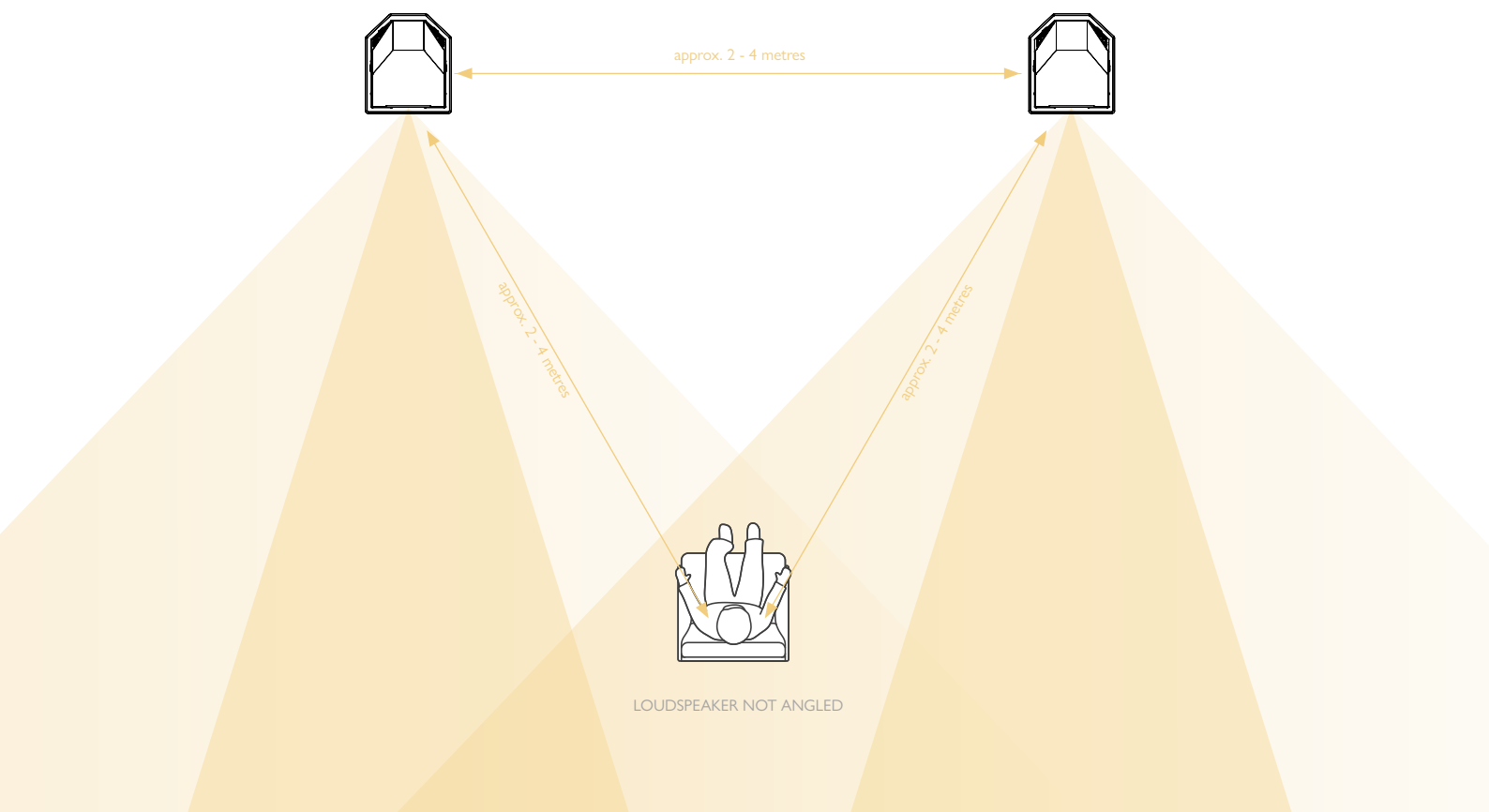
1	Isolated tweeter
2	Bass driver
3	Connection plate
4	Bass reflex port





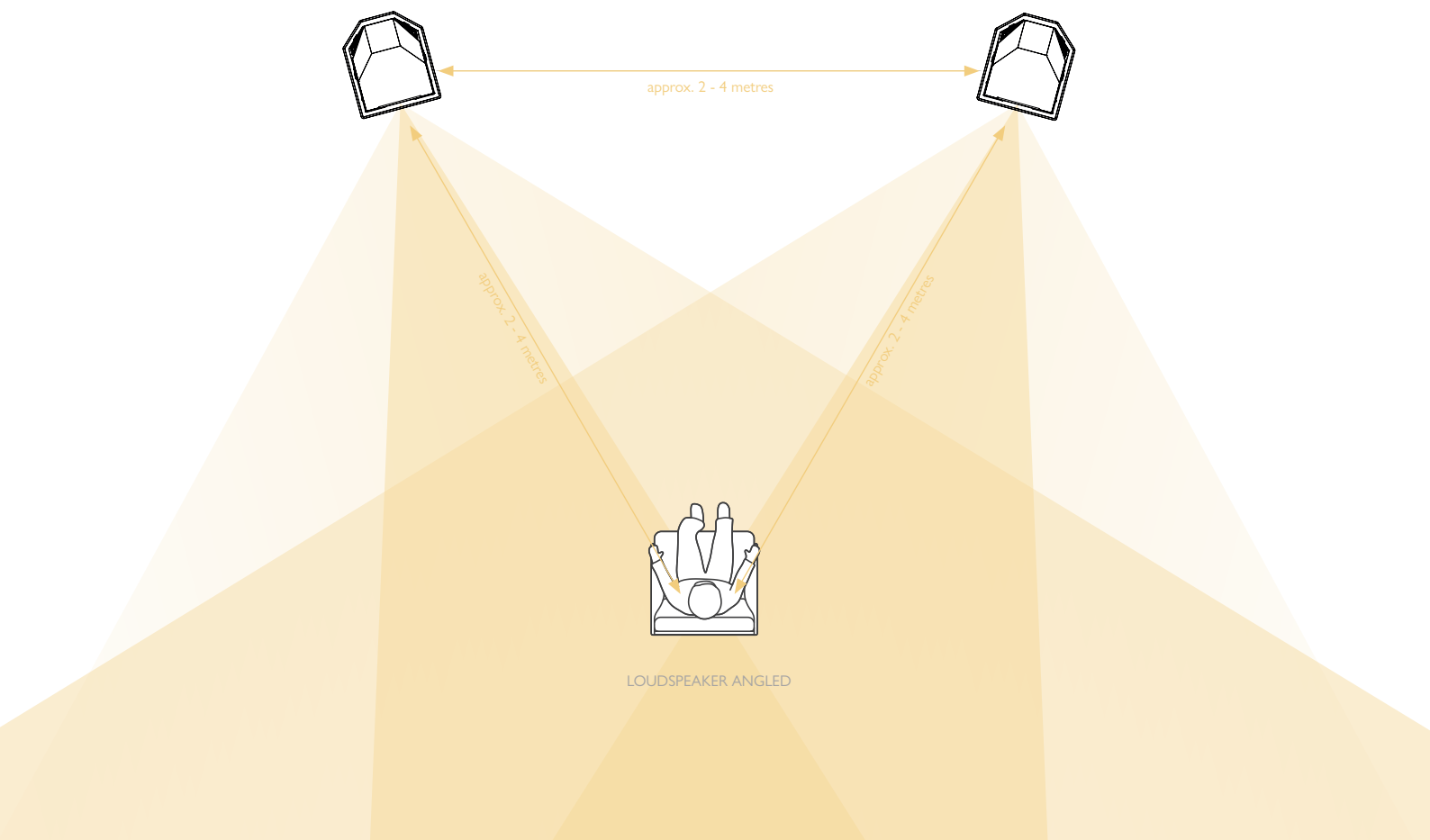
PARALLEL POSITIONING

WALL

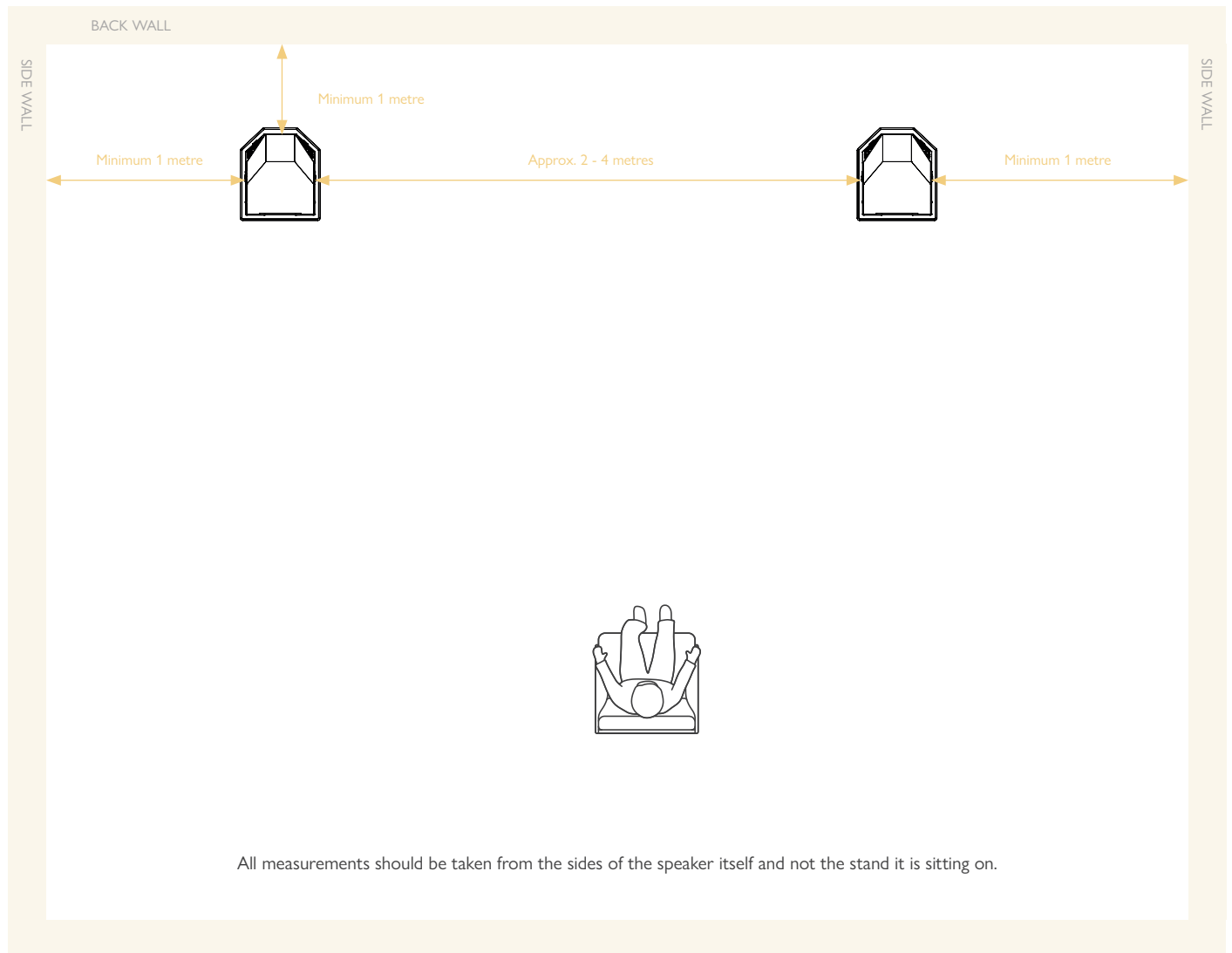


ANGLED POSITIONING

WALL



ROOM POSITIONING



ELEMENT 12 INSTALLATION

LOCATION



ATTENTION! Improper placement may affect stability or performance.

Consider the following points when choosing where to position the device:

- Use indoors only.
- Avoid heat, moisture, and direct sunlight.
- Keep away from liquids and open flames.
- Place only on flat, solid surfaces.



CAUTION! RISK OF INJURY DUE TO TIPPING OVER

If used improperly, your loudspeaker may tip over. Always place the loudspeakers on a flat, sturdy surface. Make sure that the loudspeaker is always exactly level.

POSITIONING

At Stratton Acoustics, we believe speakers should complement your space, not dictate it. The Element 12 is designed to perform with minimal placement demands, but like any high-performance loudspeaker, positioning makes a difference.

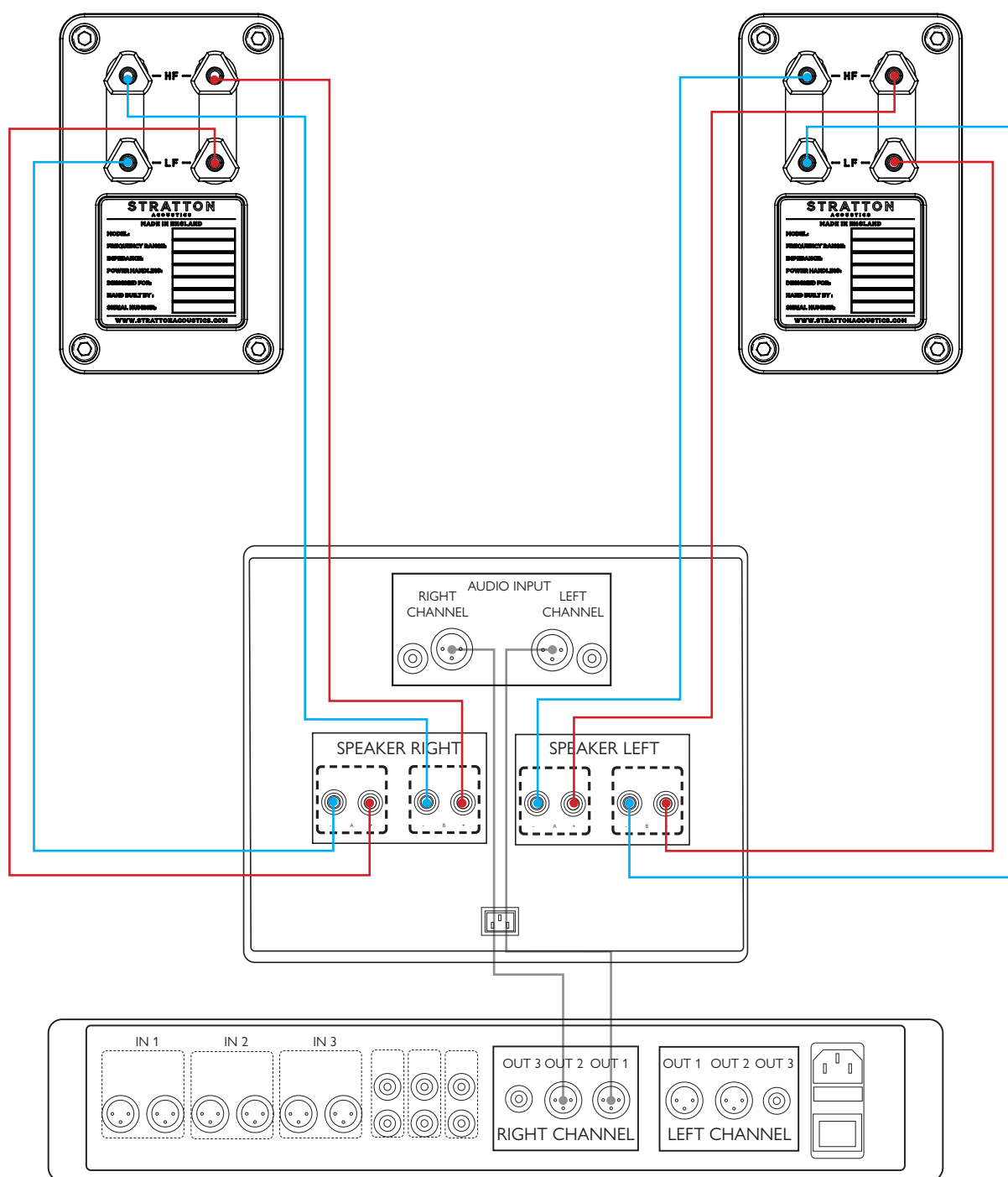
Every room is different. Furniture, surfaces, and layout all affect how music sounds. Take time to experiment. Small adjustments can unlock greater clarity, scale, and focus.

As a starting point, position the speakers 2 - 4 metres apart, measured from the inner edges. Too close, and the soundstage narrows. Too far, and central image focus may suffer.

Ideally, each speaker should sit at least 1 metre from side and rear walls. The distance to the listening position should be roughly equal to, or slightly more than, the spacing between the speakers.

A slight inward angle (about 15°) often improves imaging, though this is room and taste dependent. Let your ears guide you.

CONNECTING YOUR LOUDSPEAKERS



SPEAKER CABLES

The cables you choose can influence performance. Specialist cables aren't essential, but well-made, properly specified ones will help your system deliver its best.

We recommend cable with a minimum conductor size of 1.5mm². Thicker cables (especially over longer runs) help maintain amplifier control and ensure clean signal delivery. Keep runs under 15 metres where possible, and ensure both left and right cables are of equal length.

Your Stratton Acoustics retailer can advise on options that best match your electronics and system.

TERMINALS

The Element 12 accepts 4mm banana plugs, which fit directly into the rear terminals. Please hand tighten as doing so can help prevent mechanical noise or vibration and doing so will help maintain a stable electrical connection.

CONNECTING THE LOUDSPEAKERS



ATTENTION! Turn off all components of your hi-fi system before connecting the loudspeakers.

Connect the cables from the left speaker to the left-channel amplifier terminals and the cables from the right speaker to the right-channel amplifier terminals as shown in the diagram.

WIRING

- Always power down your system before connecting.
- Use a 2-pole cable for each speaker.
- Ensure correct polarity: Amp (+) to Speaker (+), Amp (–) to Speaker (–)
- Recheck all connections before powering up.



ATTENTION! Make sure your amplifier is turned down to a low volume before turning on.

ROOM INTERACTION

All loudspeakers, even those as robustly constructed as the Element 12's, radiate energy not just forward, but to the sides and rear, especially at lower frequencies. This means your listening environment including the furniture, floor coverings, the ceilings and even the wall decorations contribute to what you hear.

Positioning speakers too close to room boundaries can cause reverberation that can disrupt the flat frequency response, accuracy and imaging of your Element 12's. Even when spaced correctly, the materials around your speakers matter. A wall of heavy curtains will reflect sound differently than bare plaster. A hardwood floor will behave differently to thick carpet.

Try to keep the environment around each speaker as symmetrical as possible. Matching materials and surfaces on either side will help preserve a stable stereo image.

For best performance, we recommend placing each speaker at least 1.0 metre from any wall. This helps reduce boundary-related colouration and allows the speaker's natural balance to come through.

Angling the speakers inward isn't required as the Element 12's are voiced to offer the flattest frequency response when installed parallel, but depending on your room, it may adjust the image and high frequency response to be more to your taste. Experiment gradually and listen for the moment the image "locks in."



PRODUCT WARRANTY

Every Stratton Acoustics product is built to an uncompromising standard. From material selection to final assembly, each component is tested, refined, and carefully considered. Your Element 12 loudspeakers have passed a full inspection before leaving our facility, and we stand behind them.

We offer a lifetime warranty on all Stratton Acoustics loudspeakers. To maintain coverage, the loudspeakers must be correctly installed, not overloaded, and their mechanical integrity must remain intact. Opening the enclosure voids the warranty.

This is a transferable, limited manufacturer's warranty, covering defects in materials or workmanship. It does not cover misuse, external damage, or failure caused by faulty electronics.

All claims must include proof of purchase and are valid only in the country of original sale. If service is required, it must be arranged through an authorised Stratton Acoustics dealer in the original market.

If your product is outside warranty for whatever reason and you need assistance please always get in contact through your local Stratton Acoustics dealer or contact us directly.

LOUDSPEAKER CARE

Stratton Acoustics speakers require no special treatment - only the same care you'd give to any valuable item.

- Use a soft, dry or lightly damp cloth to clean cabinet surfaces.
- Avoid touching the tweeter dome.
- Dust drivers gently with a soft brush.
- Never spray cleaners directly. Apply to cloth if needed.
- Always test any cleaner on an inconspicuous area first.
- Never allow liquids to reach the driver diaphragms.

PRODUCT DISPOSAL

Do not dispose of Stratton Acoustics products with regular household waste.

Please return them to Stratton Acoustics or an authorised centre for correct disassembly and disposal.

Please recycle your Stratton Acoustics packaging:

Cardboard - widely recycled

PET Foam - Not widely recycled, check locally

ELEMENT 12 SPECIFICATIONS

Type	Twin reflex-loaded, two-way, high-sensitivity passive loudspeaker
Cabinet	Fully braced bamboo ply with CNC machined aluminium trims
Bass Driver	300mm (12 inch) with NeFeB motor; paper diaphragm and twin voice-coils
High Frequency Driver	29mm (1.2 inch) waveguide loaded NeFeB motor soft dome
Crossover	Two-way with third order slopes
Crossover Frequency	1.7kHz
Frequency Response	50Hz to 18kHz ± 2 dB
Low Frequency Cut-off	-6dB @ 37Hz
Midband Sensitivity	94dB for 2.83V @ 1m
Nominal Impedance	8 Ω (6 Ω minimum between 100Hz and 10kHz)
Electrical Phase	< $\pm 45^\circ$ between 100Hz and 10kHz
Group Delay	<10mS above 50Hz
Amplifier Compatibility	Any
Connections	Bi-wire custom binding posts
Weight (per speaker)	47.6 kg
Width	500 mm
Height	1214 mm
Depth	580 mm

Subject to technical changes without notice





