



Sopran

user manual



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Dear customer,

Thank you for choosing Morel's Sopran loudspeaker!

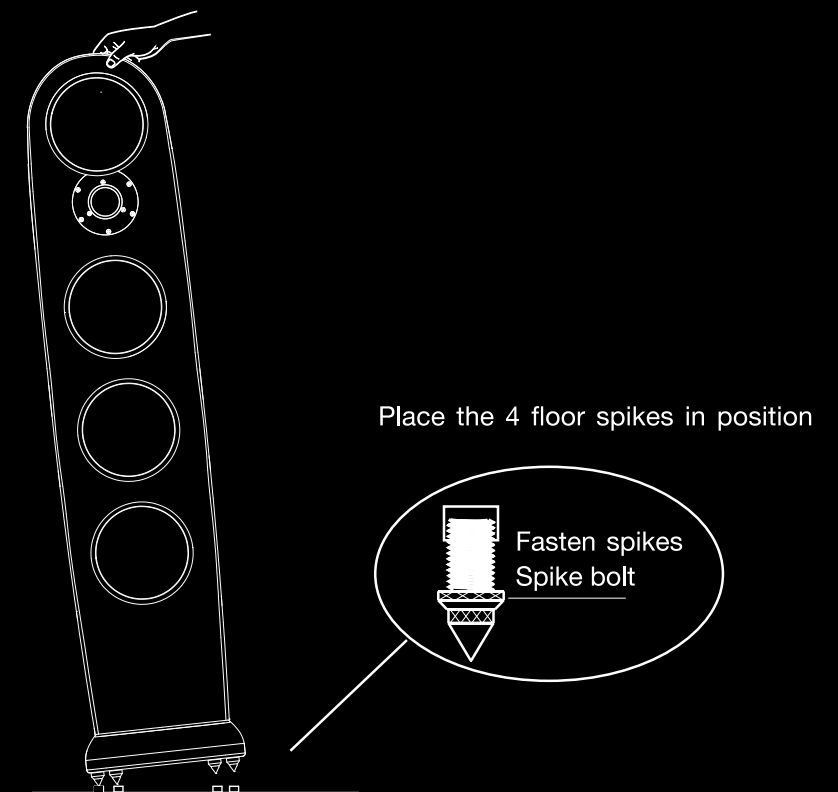
Building on the heritage of the reference *fat lady*, the **Sopran**, Winner of the 2013 CES Design and Engineering Innovations award, is a true testament to the concept of "form follows function" showing that utilizing the latest in technology to seek further than the conventional boxy speaker does not have to be boring. The Sopran is a high-end speaker designed to recreate the excitement of live music, in a refined visual package without any compromise on the sonic performance, made to ensure you many years of musical enjoyment.

We highly recommend you read carefully the information in this manual as it will help you obtain the best possible performance out of your speakers. If you have any questions, please contact your Morel dealer or Morel Support at www.morelhifi.com.

We welcome you to the Morel family and the rich listening experience.



Spikes Assembly



Place the magnetic spike protectors as shown when locating the Sopran on a wooden floor



Ancillary equipment

The Sopran speaker deserves electronic equipment and interconnecting cables of the highest quality. Please choose them with care. We can only provide guidance as for what would be favorable but can not recommend specific items. Please contact your dealer for further assistance in this mater.

Connecting the Sopran to your equipment

1. It is essential when connecting the Sopran to the amplifier to have the correct phase. The positive marked in red should be connected to the positive (+) on the amplifier and negative marked in black should be connected to negative (-) on the amplifier.
2. The Sopran will accept a banana plug or a spade connector.
3. The connection terminals have blanking pins to comply with European and other countries safety regulations. If you wish to use a banana plug the blanking pins can be removed at your own risk.

Break in period

As in any high-end speaker system, the Sopran must be used for a short period of time before it reaches peak performance. We recommend a 72-hour break-in period. Please keep this in mind when you initially set up the speakers.

Room effect

The natural way of furnishing a room will mostly provide a comfortable acoustic environment; therefore, there is little need to make any adjustments to accommodate the Sopran. However, under certain circumstances, the dimensions, construction materials, and to some degree furnishings can significantly affect the sound quality.

If you experience a very bright and lean sound or very thick heavy boomy sound please consult your Morel dealer for guidance.

Positioning the Sopran in the room

Morel strongly recommends that the Sopran is set up by your local dealer.

However, if you have decided to set up the Sopran by your-self we recommend you partner with someone to help with adjustments and the listening.

Please be advised positioning the Sopran is time consuming but also a lot of fun.

Set up guidelines

1. Create a triangle where the distance between the speakers is $\frac{2}{3}$ of the distance from the listener with the speakers facing straight forward.

2. Setting the bass:

Choose some music that has a double bass or a bass line that you can follow. Listen to the speakers and listen if one of these sounds appears:

Either the bass will sound bloated and fat or the speaker will sounds lean lacking in bass.

- If the bass sounds bloated then the speaker needs to be moved forward (we recommend 5cm at a time), until the bass plays a natural tune.
- If the sound is lean then the speakers need to be moved backwards towards the wall (we recommend 5cm at a time).

Once the optimum position for bass reproduction has been found tape a line across the room to mark the front line of the speakers.

3. Setting the sound stage:

To set the sound stage we need to change the music to something that has a lot of instruments in it. If the speakers have been moved either forward or backwards to find the correct bass they now should be repositioned on the line you made (with the tape) so that the distance between the speakers is $\frac{2}{3}$ of the distance from the listener.

Listen to the music and in small increments (about 2cm at a time) move the speakers closer together until a point is reached where the sound does not appear to come from the Sopran loudspeakers at all.

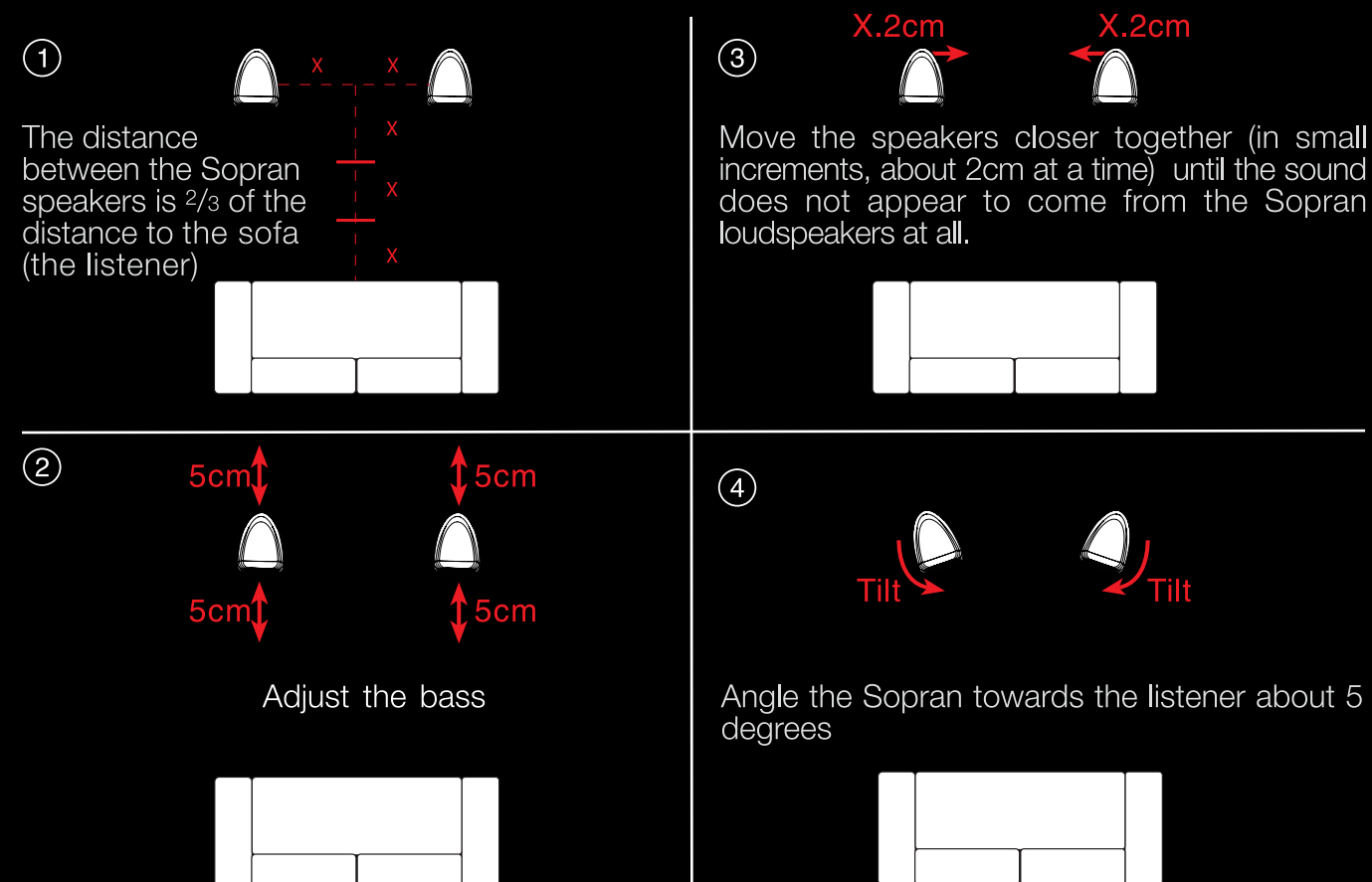
- Please note if the distance of the speakers becomes half of the distance to you, the listener, then the speakers have been moved too close together.

4. Toe in & leveling:

Angle the Sopran speaker towards the listener about 5 degrees.

Level the speaker making sure that it is standing vertical and isn't rocking on the spikes. For optimum sound quality, make sure the Sopran is not leaning forwards or backwards nor tilting to the sides.

Recommended speaker placement & positioning



Specifications

Type	3-way 5 drive unit system
Construction	Composite of carbon fibre and fibre glass resin enclosure with hand polished piano paint finish
Acoustical Loading	Bass: 3 In line Ports (bass reflex tuned to 28Hz) Mid: In line port
Drive Units	<p>Woofer: 3 x 6" (160 mm) DPC (Damped Polymer Composite) cone type with integrated one piece dome, Hybrid™ double magnet motor, 3" (75 mm) EVC™(External Voice Coil) long-throw Hexatech™ aluminium voice coil. New Titanium Former technology.</p> <p>Midrange: 6" (160 mm) with linear impedance copper sleeve technology, DPC (Damped Polymer Composite) cone type with integrated one piece dome, Hybrid™ double magnet motor, 3" (75 mm) EVC™ (External Voice Coil) long-throw Hexatech™ aluminium voice coil. New Titanium Former technology with linear impedance copper sleeve technology.</p> <p>Tweeter: 1.1" (28mm) Acuflex™ hand crafted soft dome, triple ferrite magnet motor, Hexatech™ aluminium voice coil.</p>
Frequency Response	30-22,000 Hz (45-18,000 Hz ±1.5 dB)
Nominal Impedance	4 ohm
Nominal Power Handling	250 W
Peak Power Handling	1000W
Sensitivity 2.83V/1 M	91.5 dB
Crossover	250 Hz / 2.2 K Hz
Dispersion	Within 1.5 dB - 18,000 Hz Horizontal: over 60° Vertical: over 20°
Dimension(W x H x D)	10" X 16.9" X 44.6" (255mm X 430mm X 1135mm)
Weight	31.5 KG
Finish	Piano gloss black or piano gloss white