

# SOPRAN

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USER GUIDE

Iconic design meets  
pure musical emotions



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We sincerely thank you for choosing MOREL for your home.

Over four decades of innovation and handmade craftsmanship are the core of every speaker we manufacture. The SOPRAN Series is a labor of love and unparalleled passion that pushes design and acoustic boundaries to create a speaker that will unleash the raw emotions in music.

Every SOPRAN speaker is built with great attention to detail to meet the demands and expectations of the most discerning listeners. We urge you to read the manual and consider our guidance in order to achieve optimal performance. It is always recommended to seek the advice of an authorized Morel retailer or contact us directly at [info@morelhifi.com](mailto:info@morelhifi.com) for any questions you may have.

We wish you many years of listening enjoyment.

# Unleash the music

## Warnings

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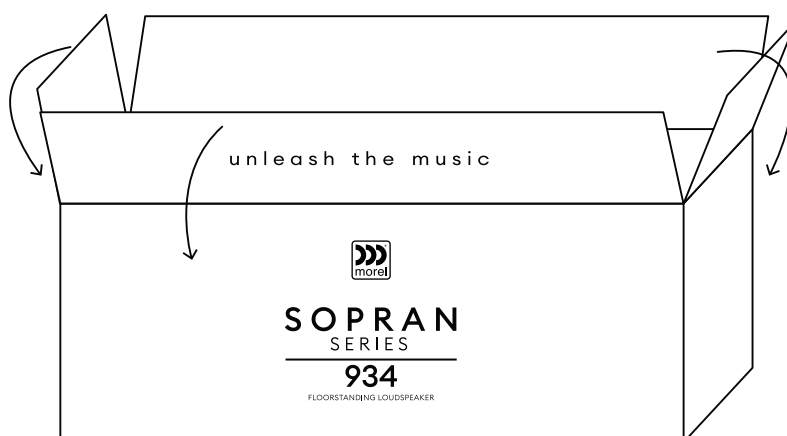
- 1 . Make sure to read this manual to ensure proper set up and optimal performance.
- 2 . Make sure you place the loudspeaker on a solid and level floor to not compromise the stability of the speaker and to prevent from additional vibration during music play.
- 3 . Please carefully follow connection instructions to avoid permanent damage to the loudspeaker and/or amplifier.
- 4 . Avoid listening to the audio system at high volumes for extended periods of time.
- 5 . Avoid placing electrical cables in close proximity of the loudspeakers. This may introduce electrical noise and affect the loudspeaker performance.
- 6 . Keep the loudspeakers from any heat source or flammable materials to avoid fire or other damage.
- 7 . Never insert any object to the vent openings in the back of the speaker as it may permanently damage the speaker.
- 8 . Never try to repair the speaker yourself. Always contact Morel or an authorized dealer for support.
- 9 . Please follow the care instructions to ensure the integrity of the cabinet and other components of the speaker.
- 10 . Do not use speaker outdoors or in areas of high heat or extreme humidity.

# Assembly

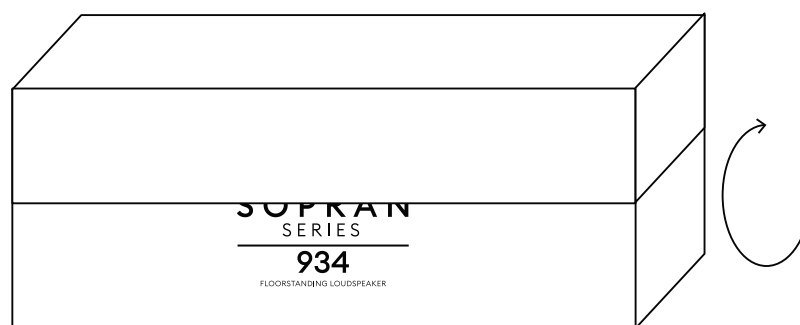
## ① Unpacking



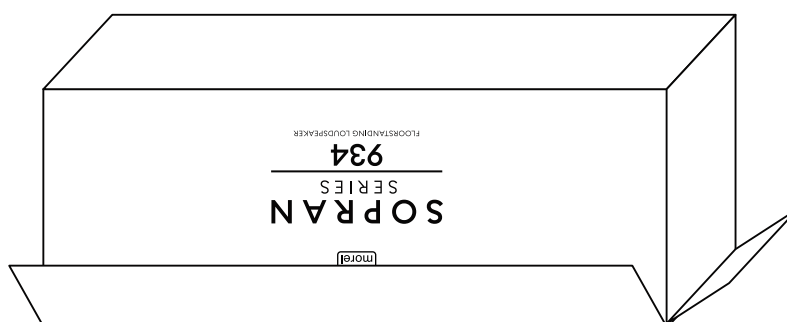
Remove the tape and open the carton



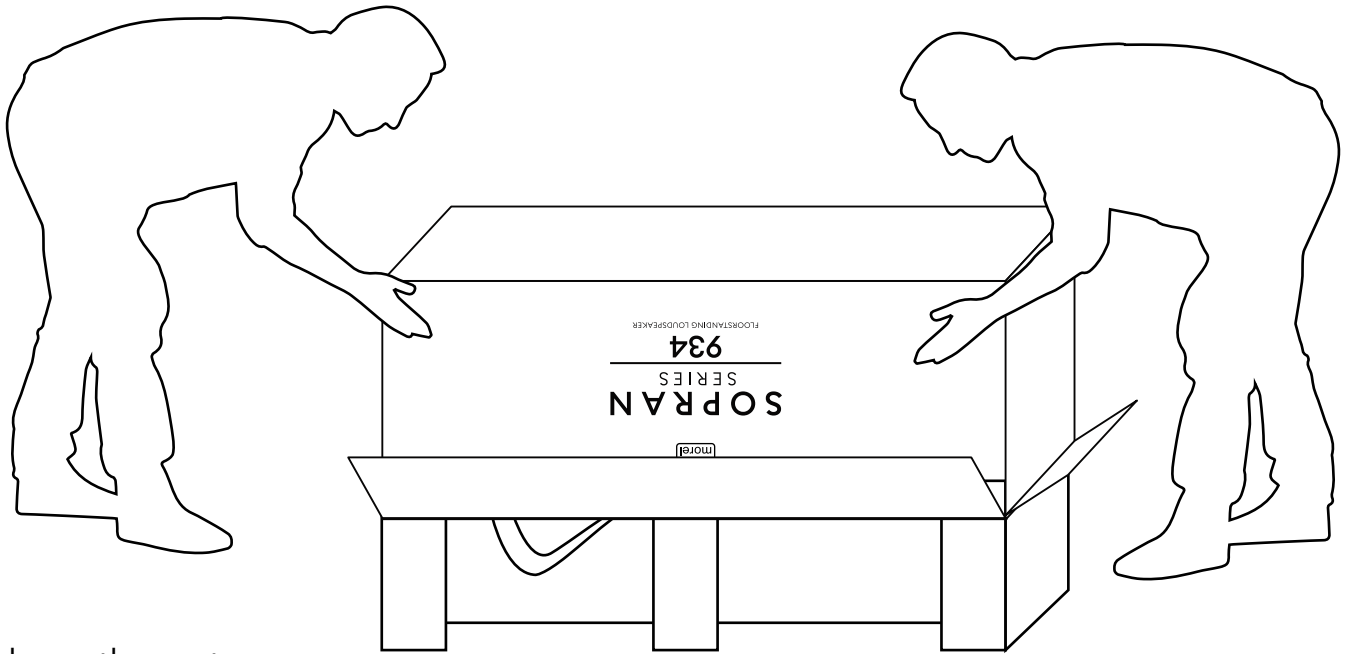
Put the lids on the side



Turn the carton of 180°

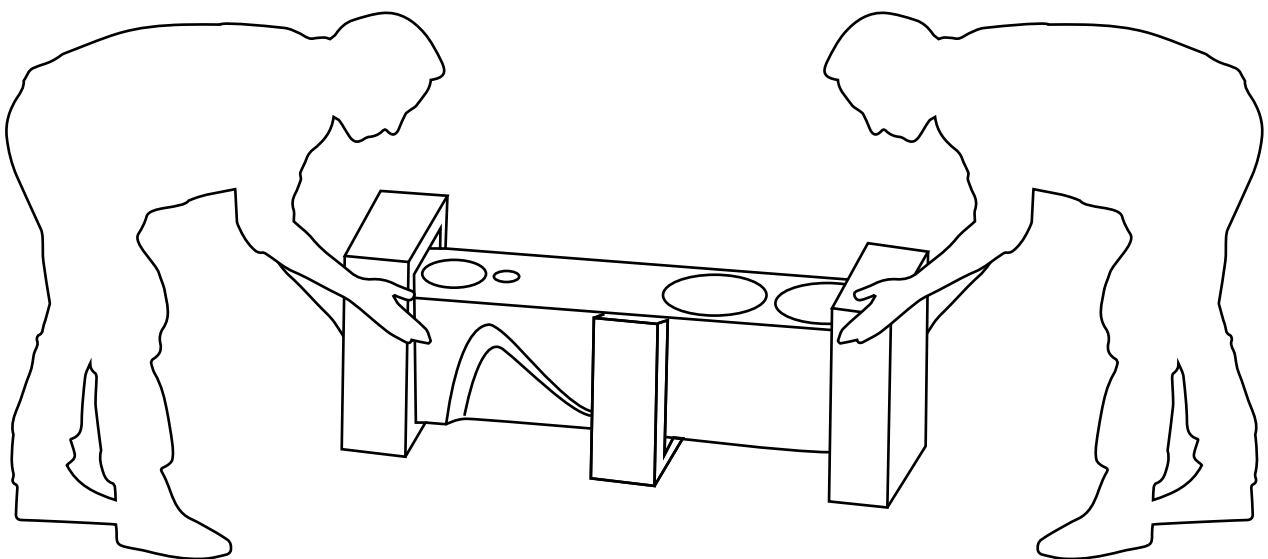


Put the lids on the side

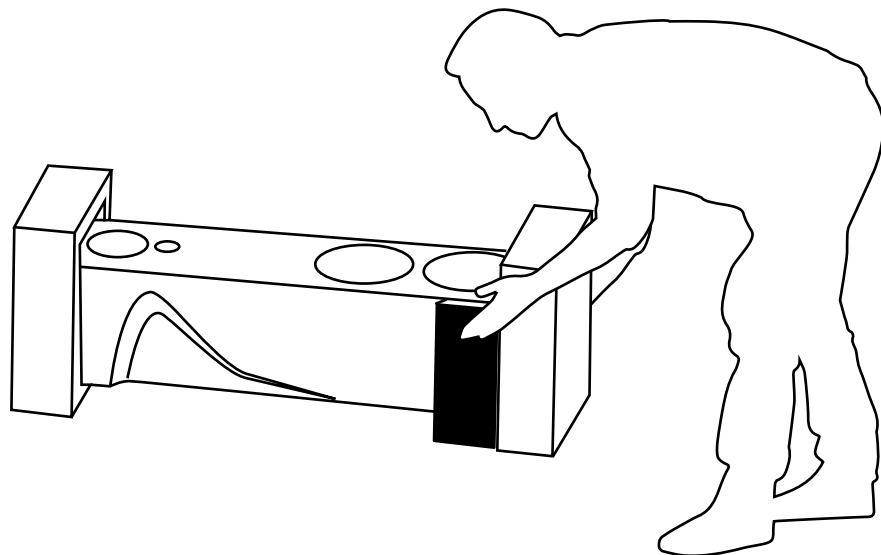
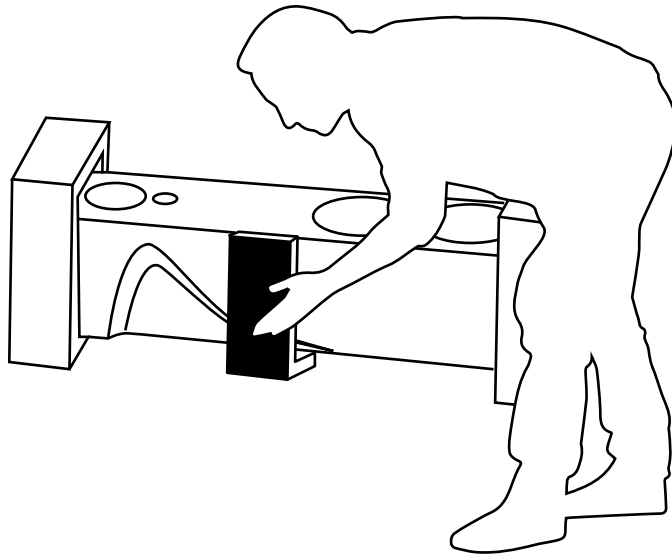


Slide up the carton

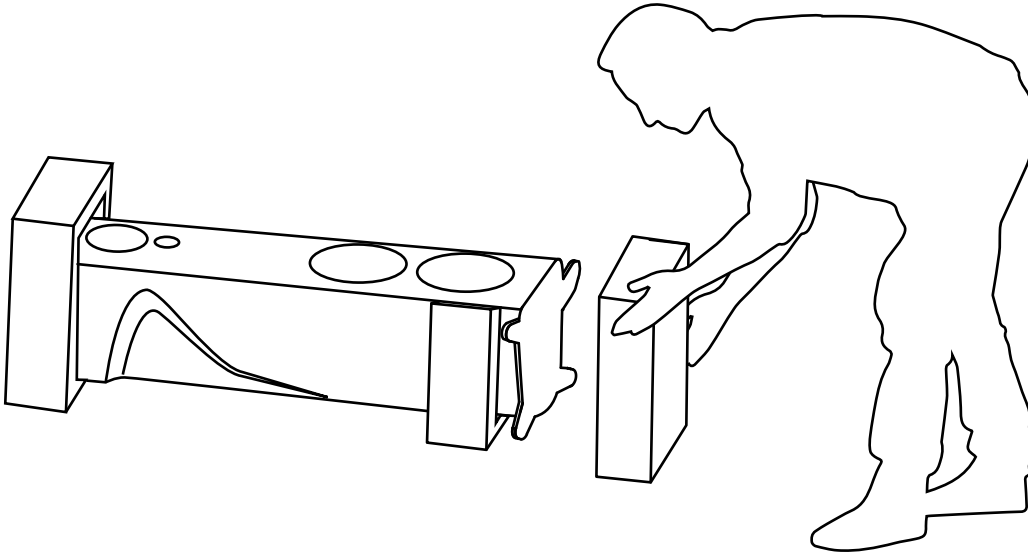
② Lay down the speaker without removing the foam protectors



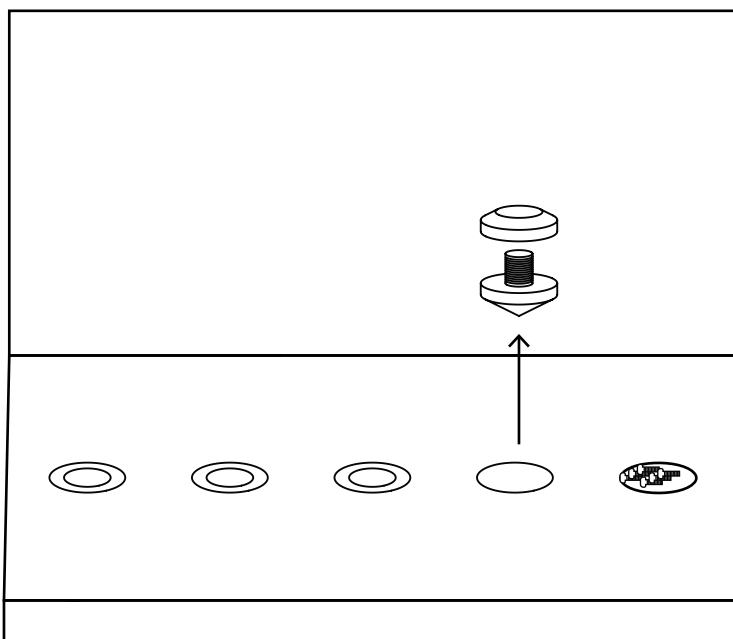
- ③ Slide the middle foam protector to the bottom until it touches the bottom foam protector



4 Remove the bottom foam protector

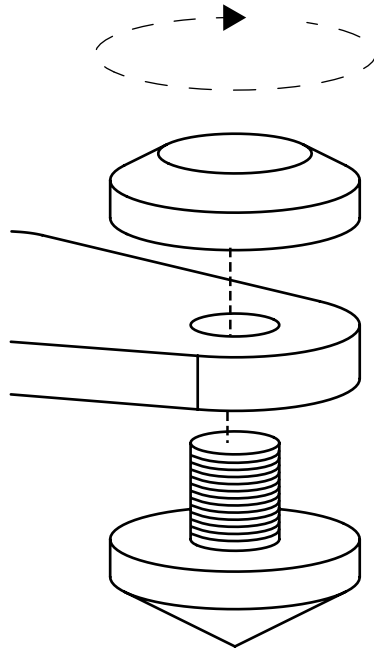


5 Open the accessory box and take spikes and screws

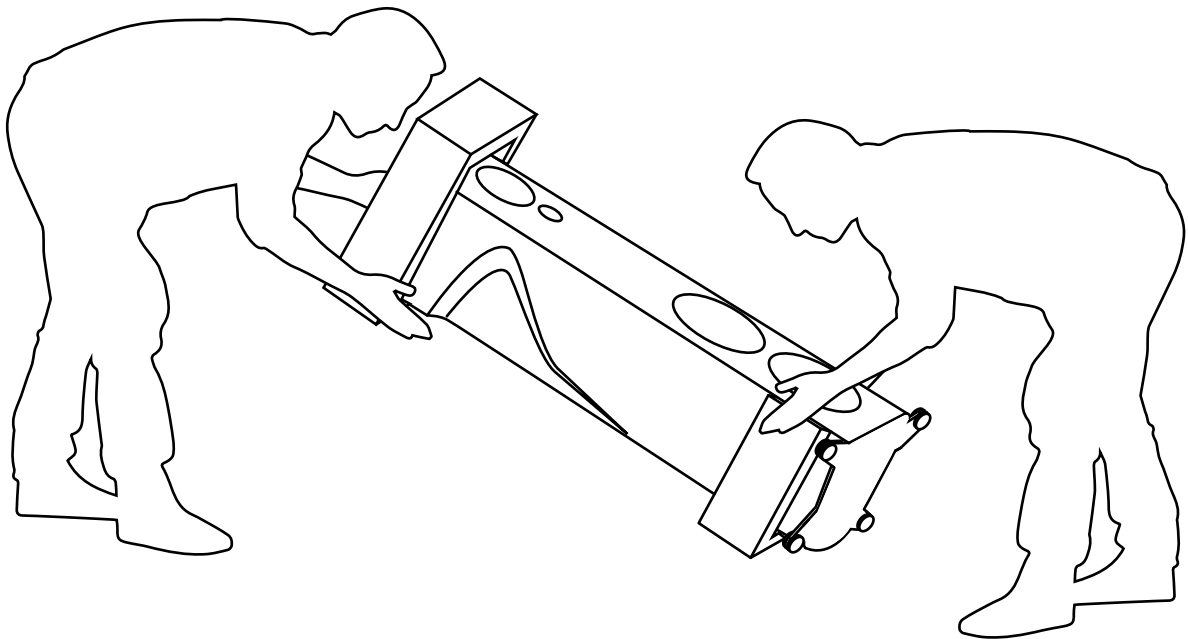




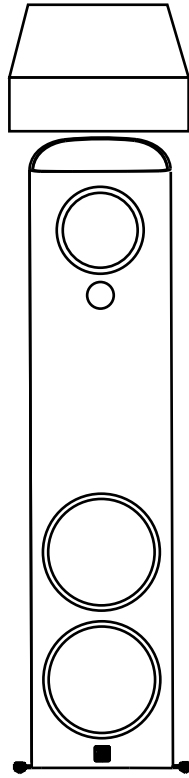
⑥ Screw the spike (clockwise) to the foot and repeat for the remaining ones



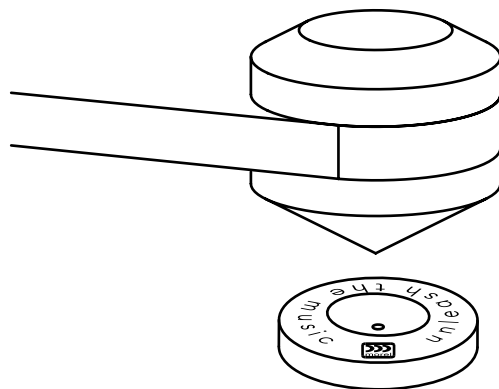
⑦ Stand the speaker



- 8 Remove the top foam protector



- 9 Place the floor protector under the spikes

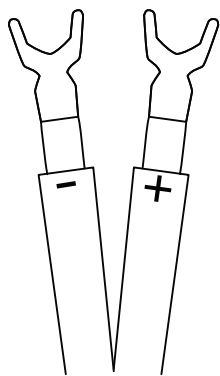
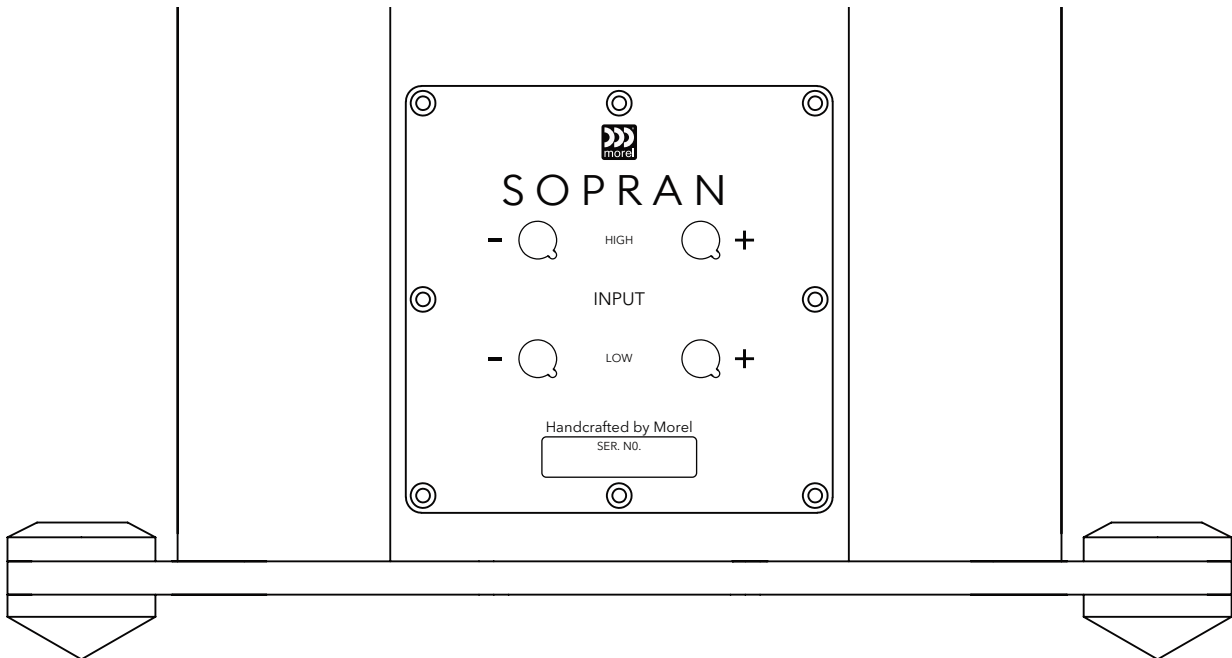


# Connecting the Sopran to your equipment

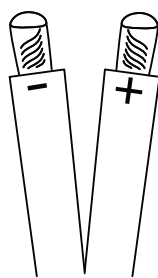


MAKE SURE ALL EQUIPMENT IS TURNED OFF BEFORE ATTEMPTING TO CONNECT THE SPEAKERS

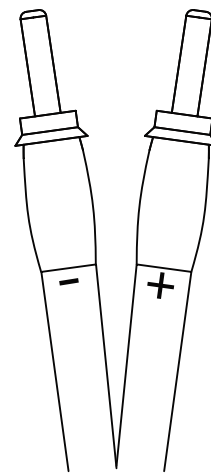
1. It is critical to ensure that correct polarity is maintained while connecting the speaker to the amplifier. Black (-) and Red (+) terminals on the amplifiers should be connected to the corresponding terminals on the speaker.
2. The connection terminals of the SOPRAN allows for spade connector, banana connector, and up to 5 gauge unsheathed wire (up-hole size is 5mm or smaller). Make sure you follow local codes and regulations.
3. There are three possible connection types;



Fork terminal



Stripped cable



Banana connector

### Single Connection

This is the default connection. The jumper plates must remain connected to the terminals. The Right speaker needs to be connected to the amplifier's right output terminal and the Left speaker needs to be connected to the amplifier's left output terminal. Refer to Diagram A.

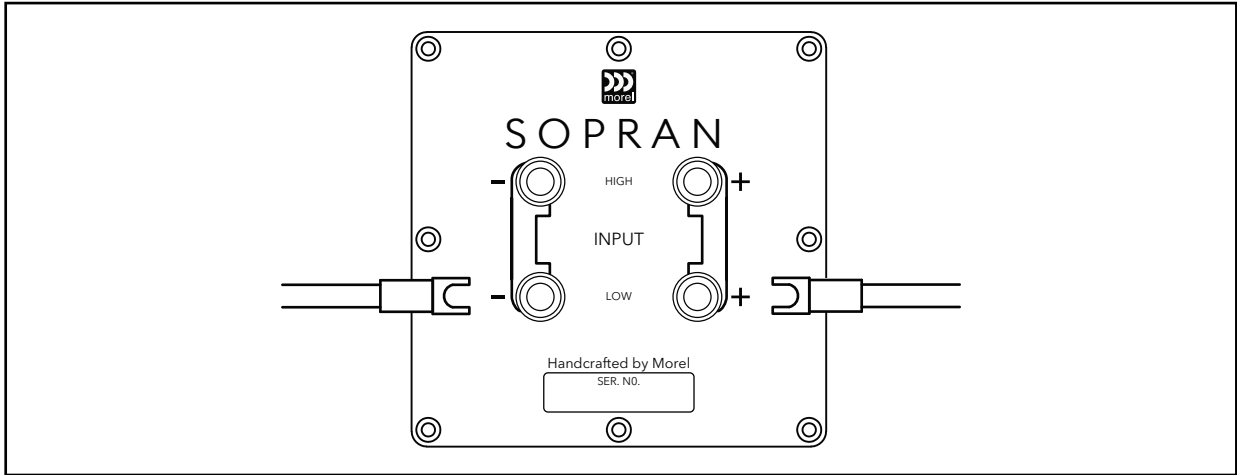


Diagram A

### Bi-Wire Connection

To improve the dynamics and resolution, Bi-wire connection is selected. It requires two sets of cables for each speaker. In this connection configuration, the Sopran terminal's jumper plates are removed. The High and Low terminals are independently connected to the same amplifier output. Refer to Diagram B.

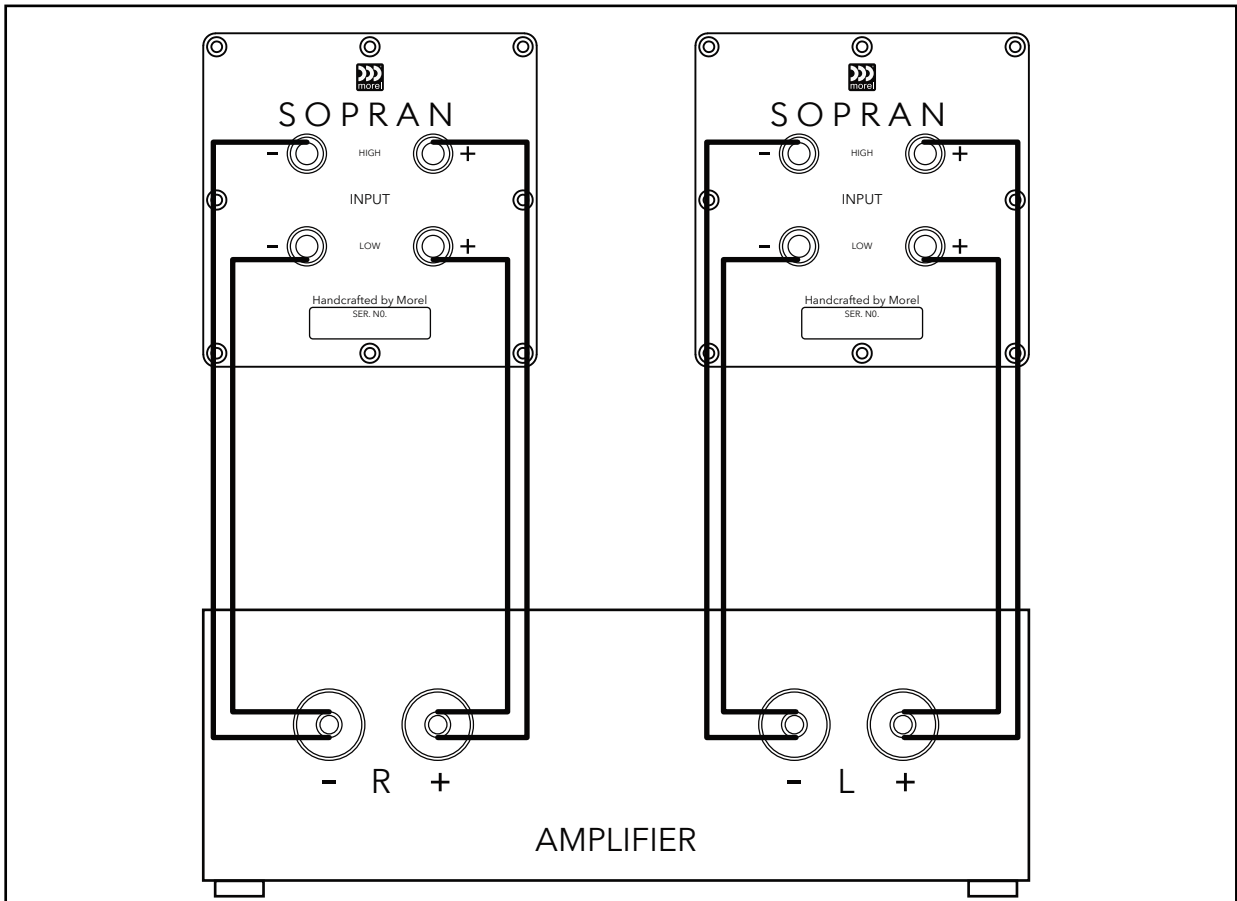


Diagram B

## Bi Amplification

This configuration is used to achieve optimal sound coherency, detail and low frequency dynamics. It is also the most expensive set since it requires 4 mono amplifiers or 2 stereo amplifiers. The speakers' terminal jumper plates are removed, and 2 pairs of speaker cables are connected to the amplifiers. Please refer to diagram C.

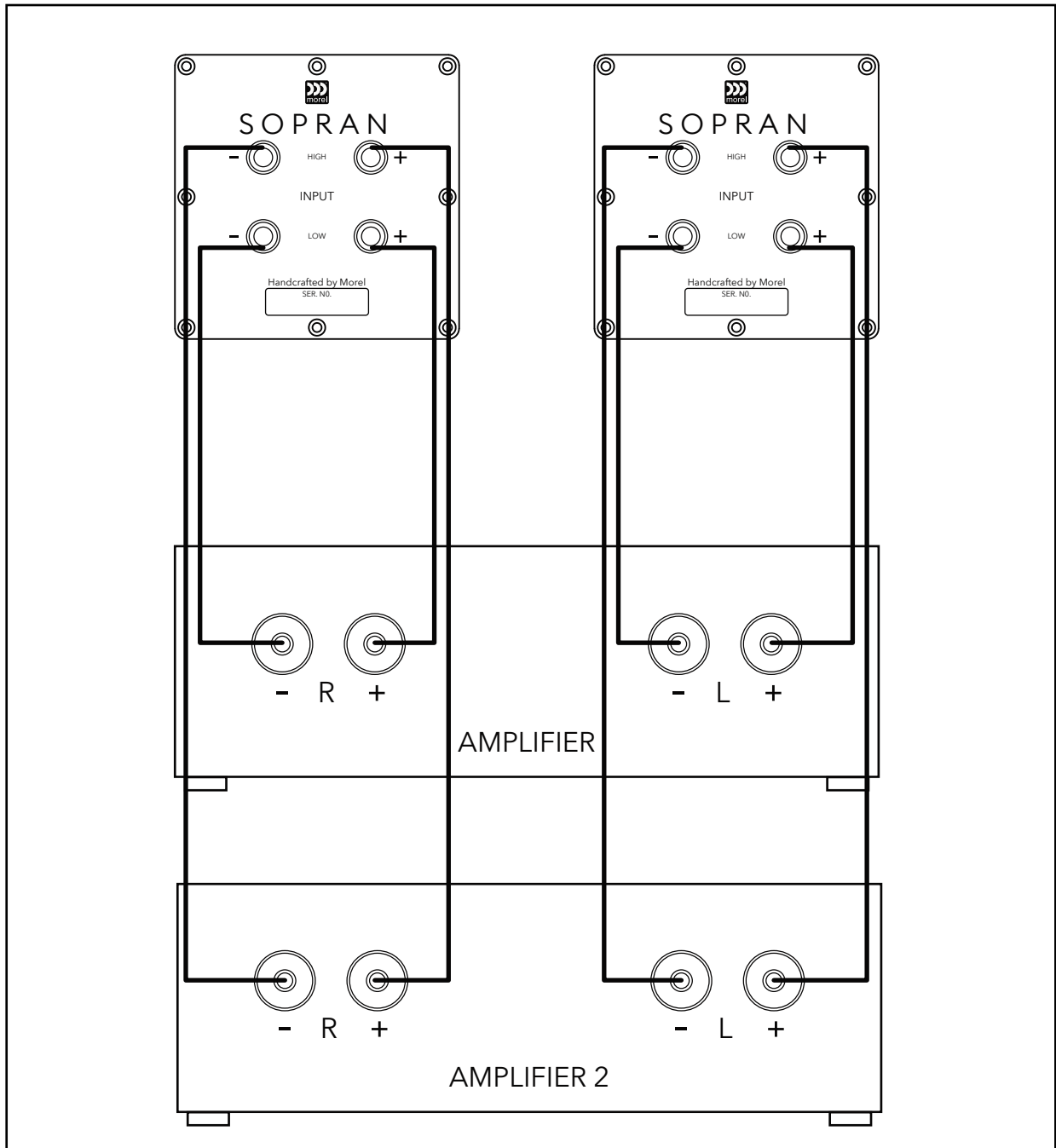


Diagram C

## Choosing the right amplification

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The Sopran is a very transparent speaker which will mirror the strengths and weakness of any amplifier. It is important to select an amplifier that is power appropriate and, at minimum, matches the RMS power rating of the Sopran. Underpowering your Sopran will be damaging to the dynamics and sound and could lead to product failure.

Note that there are different typologies of amplifiers that have different sound characteristics. Choosing the best amplifier for your needs can be challenging. Morel highly recommends consulting a trusted retailer in the selection process.

## Break-in period

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As in any high-end speaker system, the Sopran require a break-in period so the drive units can normalize and reach optimum performance. Morel recommends playing the speaker system at incremental volume levels with dynamic audio tracks for 24-36 hours continuously before finalizing the speaker setup. During the break-in period, DO NOT use pink noise, test tones, sine waves or any other generated signal to break-in the speaker as this may be damaging to the speaker and crossover components.

## Set up

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Before you begin, be aware of objects in the room that may impede the sound from the speakers. When possible, remove or relocate these items prior to setup.

Every living space has different acoustic properties. These characteristic properties are determined by the size and shape of the room, reflective and absorbing materials, and openings (doors/windows), and will have an affect how the speaker will perform.

While there are no absolute rules that pertain to every set up, we do recommend applying the following fundamental guidelines to assist in achieving optimal performance. To do so you will need a distance measuring device, tape, level, pen, calculator, and a lot of patience. Be sure to also bring along your favorite music.

## Spikes Adjustment

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The Sopran is equipped with metal spikes to offer good stability and acoustic separation from the floor. It is critical to ensure that the loudspeakers are leveled and the tweeters are an equal distance to the floor. To properly adjust, use a tape measure (for the tweeter height) and a level. Once the spikes are adjusted, make sure to lock them in place by tightening the locking nuts.

## Speaker Positioning

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- ① Measure the width of the room and divide in half. Mark this position at the base of the wall with a piece of tape. From the tape, measure the distance to the side wall and divide by 10. Starting at the center of the room, initial placement of the speakers will be at positions 5, left and right of center (see diagram D). Now space each speaker a minimum of 50cm (20 inches) away from wall directly behind the speakers.
- ② Set your listening position by creating an isosceles triangle between the speakers and the listening position. It is recommended that the distance between the two speakers (B) be greater than  $\frac{2}{3}$  of the distance to the listening position (A). (Refer to diagram D)

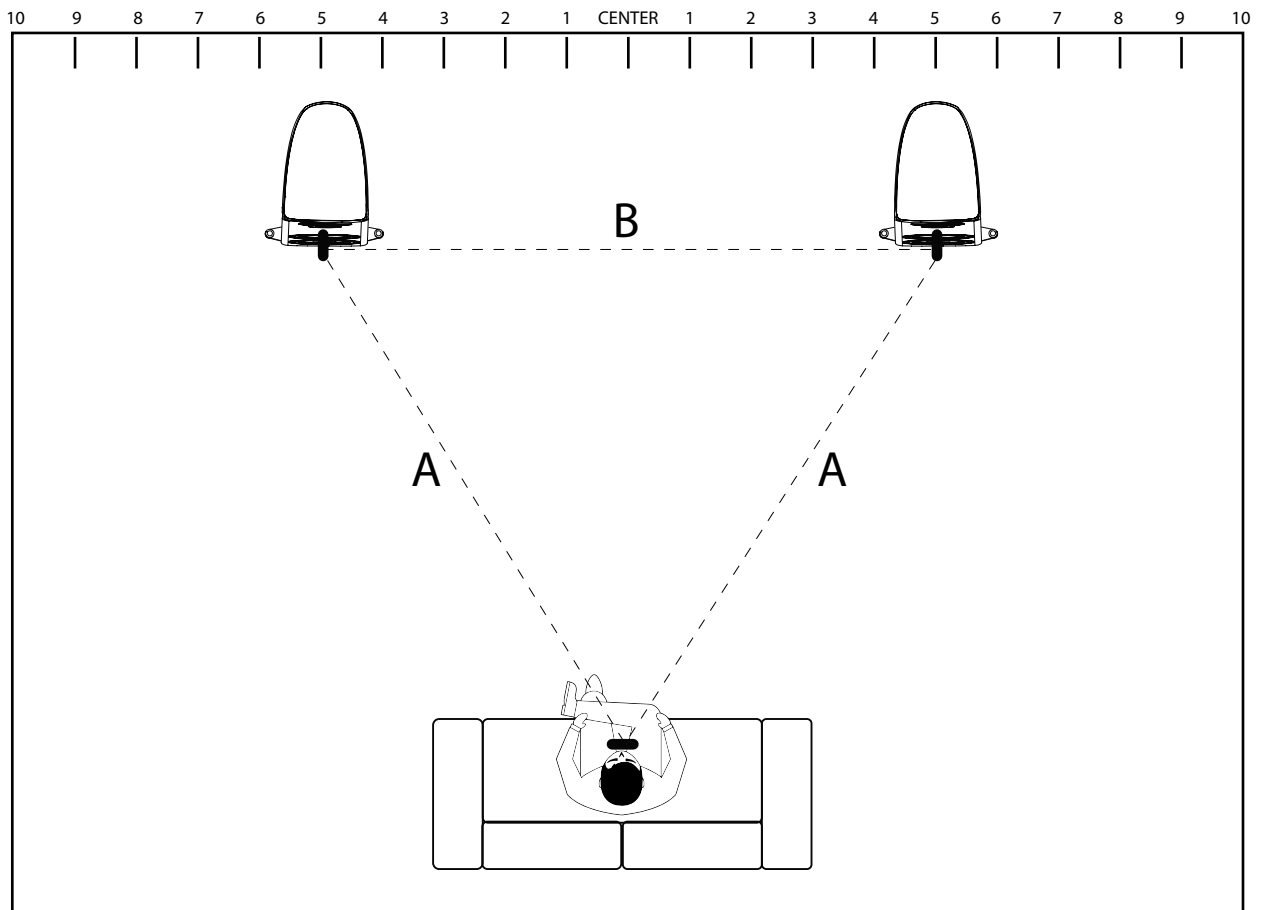


Diagram D

- 3 Positioning of the speaker affects the bass level performance. As a general guidance, placing the speaker closer to the back and/or side walls will increase the bass notes by up to 6dB due to the loading effect created by the proximity to the walls (refer to Diagram E).

The bass can be adjusted by changing the distance between the speaker and the back and/or side wall. Select a jazz track with double bass or repetitive bass line and move the speakers closer to the listening position in 10CM (4-inch) increments until the bass performance sounds balanced. If the bass sounds too big or boomy, the speakers need to be moved forward. If the bass is too lean, move the speakers toward the wall.

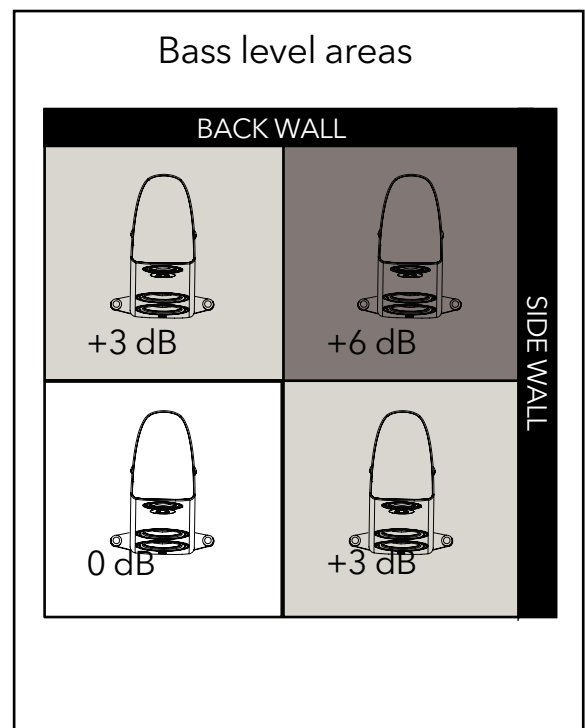


Diagram E



- ④ Soundstage and imaging are affected by the distance between the speakers and their toe-in position. The balance between the two is critical. Start by listening to the speakers in their initial position (step 1) and then move the speakers outward to position 6, and then inward to 4, etc., while maintaining a stationary listening position. Listen to the speakers after each adjustment until the instruments and vocals are balanced across the soundstage. Use tape to mark each position.
- ⑤ Using a vocal track, toe-in the speakers to adjust the sound stage and imaging until it becomes focused with instruments and vocals easily distinguished and precisely positioned. It is extremely important that the speakers are adjusted in a symmetrical manner. Using the inner front spike of each speaker as a reference, pivot the speakers in small increments towards the listener's position until the image is stable and the depth of the soundstage is even. If done correctly, the physical speakers should disappear and no sound should localize to the location of the speaker itself. (Please refer to diagram F).

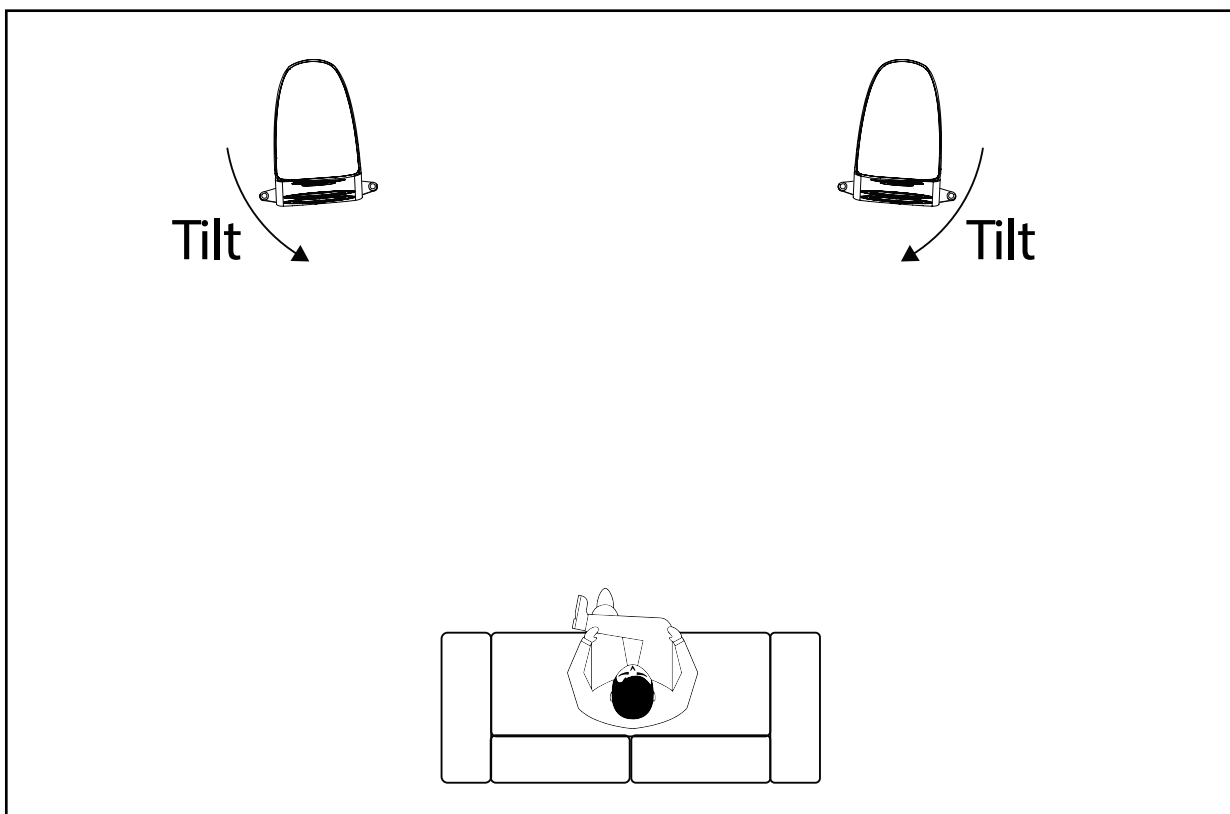


Diagram F

## Caring for the SOPRAN

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Morel manufactured the SOPRAN using premium raw materials so it would last for many years with minimal maintenance requirements.

Morel recommends wiping down the cabinet periodically using only a microfiber cloth. **DO NOT USE** any detergents, waxes, alcohol or other chemicals to clean the speaker as it may damage the finish. The delicate drivers should only be cleaned as required with a very soft brush and a gentle hand, and never with any liquid.

Avoiding placing the speaker under direct sunlight or next to a high heat source or in areas of extreme humidity as this will impact the integrity of the paint and cabinet.

## Warranty

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All Morel speakers are guaranteed to be free of manufacturing defects. We implement stringent quality control protocols to ensure that each speaker meets the highest standards. We highly suggest registering your speaker on our website to receive the latest news from Morel and authenticate your warranty.

Please contact your local dealer for more detailed warranty guidelines.

# Specifications

Type	3-way 4 drive unit system
Construction	Medium Density Fiber enclosure with hand polished piano paint finish/real wood veneer finish
Acoustical Loading	Bass reflex Mid: Bass reflex
Drive Units	<p>Woofer: 2 x 8" (203 mm) paper carbon celular cone type with integrated one piece dome, double magnet motor, 5.1" (127 mm) EVC™(External Voice Coil) long-throw Hexatech™ aluminium voice coil. Titanium former technology.</p> <p>Midrange: 6" (160 mm) with linear impedance copper sleeve technology. Carbon fiber sandwich cone type with integrated one piece dome, neodymium double magnet motor, 3" (75 mm) EVC™ (External Voice Coil) aluminium voice coil.</p> <p>Tweeter: 1.1" (28mm) Acuflex™ handcrafted soft dome, neodymium magnet motor, Titanium aluminium voice coil copper sleeve.</p>
Frequency Response	30-22,000 Hz (45-18,000 Hz ±1.5 dB)
Nominal Impedance	4 ohm
Nominal Power Handling	300 WRMS
Peak Power Handling	1000W
Sensitivity 2.83V/1 M	90 dB
Crossover	250 Hz / 2.2 kHz
Dispersion	Within 2 dB, 40-18,000 Hz Horizontal: over 60° Vertical: over 20°
Dimension (W x H x D)	10.6" X 47.3" X 14.5" (270mm X 1203mm X 370mm )
Weight	50 KG

# SOPRAN

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u n l e a s h t h e m u s i c



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