

sonoro

USER MANUAL

ORCHESTRA Shaped Signature

English

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Document information

User manual for the device:

ORCHESTRA Shaped Signature

- Read this manual carefully.
 - Follow the instructions in the accompanying safety manual.
 - If you pass on the device, also provide the accompanying safety manual.
-

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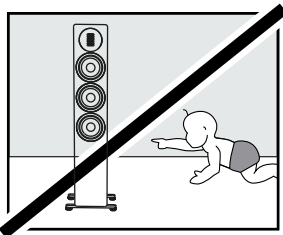
Need help?

Visit our support website for more information:

<https://sonoro.com/support>

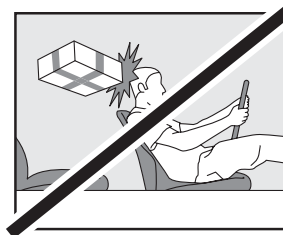
Safety information

ORCHESTRA Shaped Signature is intended for personal use only, not for commercial use. Make sure the speaker is positioned, connected and used safely.



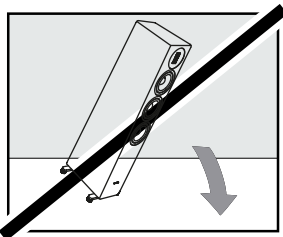
Supervision and packaging

People, including children, who cannot operate ORCHESTRA Shaped Signature safely because of their physical, sensory or mental abilities must only use it under supervision. Packaging materials pose a suffocation hazard.



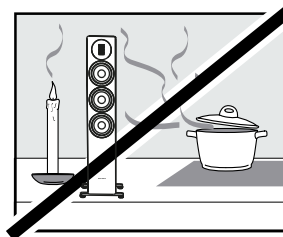
Transport in a vehicle

Secure ORCHESTRA Shaped Signature in a vehicle so that it cannot endanger the occupants. Incorrect transport or shipping can damage the speakers and impair their operation.



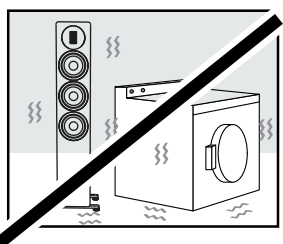
Protect the front, edges and corners

The front, edges and corners of ORCHESTRA Shaped Signature are sensitive to pressure. Protect them against excessive loads. Never tilt the speakers over their edges or corners and never place them face down.



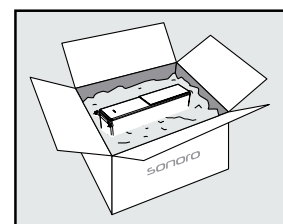
Avoid moisture and heat

Never use ORCHESTRA Shaped Signature in areas with high humidity. Avoid heavy soiling, such as grease splashes and unfiltered kitchen exhaust air. Protect the speakers from liquids. Never place them on or immediately beside sources of fire or heat.



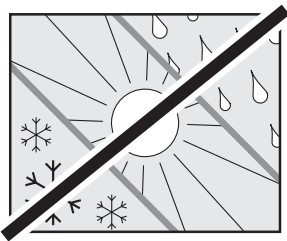
Use a stable surface

Place ORCHESTRA Shaped Signature on a stable surface to prevent strong mechanical vibrations.



Transport and shipping

For transport or shipping, pack the speakers in the supplied protective sleeves and original box. Keep the original packaging for this purpose. If you no longer have the original packaging, use sufficiently sturdy, protective packaging to prevent damage to ORCHESTRA Shaped Signature.

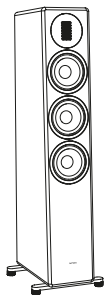


Protect against the weather

Protect ORCHESTRA Shaped Signature from weather, moisture and high temperatures. Never use the speakers outdoors and avoid intense sunlight and UV radiation.

Scope of delivery

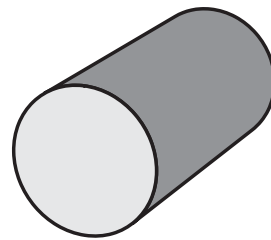
The following quantities apply to **one speaker** ORCHESTRA Shaped Signature.



1 speaker



1 speaker grille



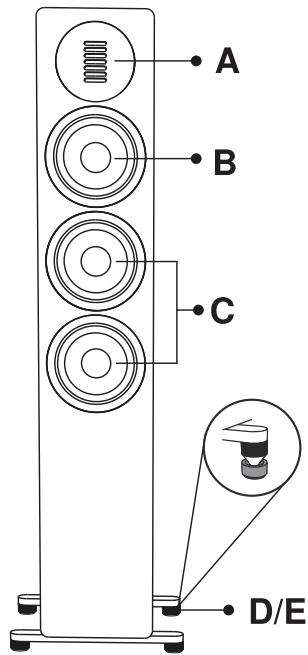
1 bass reflex port plug

Assembly accessories

- 2 cross braces
- 4 speaker feet
- 4 speaker spikes
- 4 spike pads
- 2 hex keys (2 mm and 4 mm)
- 4 grub screws
- 4 countersunk screws

Check the speakers and all parts for completeness and visible damage. Do not use damaged speakers. If parts are damaged or missing, contact your dealer or sonoro customer service.

Front view



A AMT Tweeter

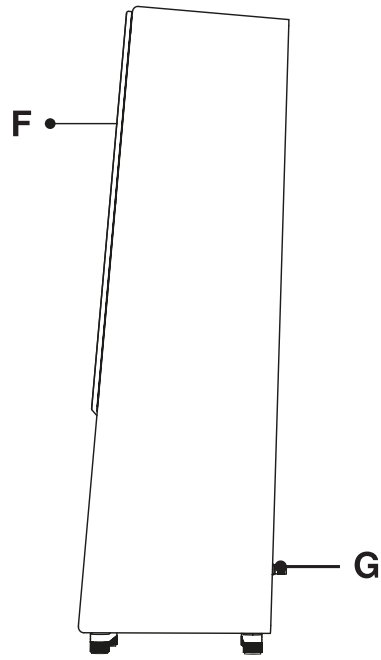
B Midrange driver

C Woofer

D Speaker feet

E Spikes and spike pads

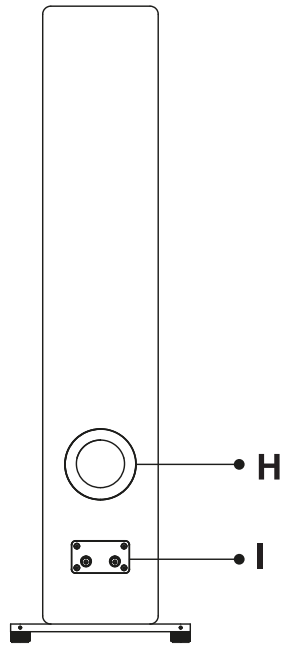
Side view



F Speaker grille

G Speaker terminals (+ / -)

Rear view



H Bass reflex port

I Speaker terminals (+ / -)

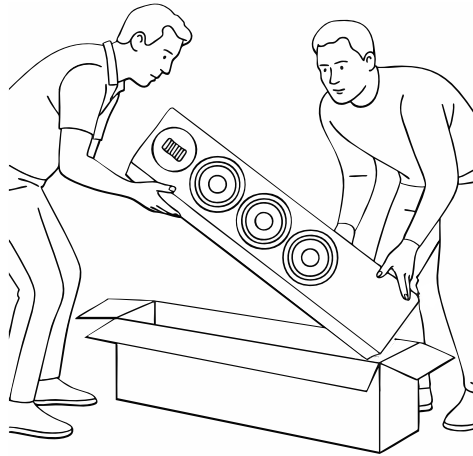
Technical data

Type	3-way floorstanding speaker
Dimensions (W × D × H)	approx. 180 × 350 × 968 mm approx. 280 × 350 × 1041 mm including feet
Weight	approx. 23.8 kg
Ambient temperature	0 °C to +40 °C
Cabinet	High-density fibreboard (HDF)
Recommended amplifier power	from 50 W
Woofer	2 × 5.25" composite diaphragm, rubber surround, die-cast basket, 35.5 mm voice coil
Midrange driver	1 × 5.25" composite diaphragm, die-cast basket, 35.5 mm voice coil
Tweeter	Air Motion Transformer (AMT), approx. 85 cm ² effective diaphragm area, neodymium magnet
Load impedance	4 Ω
Frequency range	32.5 Hz to 30 kHz at –6 dB
Sensitivity	88 dB, 1 m / 2.83 V
Specifications are subject to change without notice.	

Unpacking the speakers

ORCHESTRA Shaped Signature is a heavy speaker. If possible, have **two people** unpack it to prevent scratches or dents in the cabinet.

Before unpacking, prepare a soft pad, such as a blanket or foam mat, to protect the cabinet from damage.



1. Carefully remove the speaker from its packaging.
2. Check it for damage. If damaged, do not use it; contact your dealer or sonoro customer service.
3. Check that all supplied parts are present.

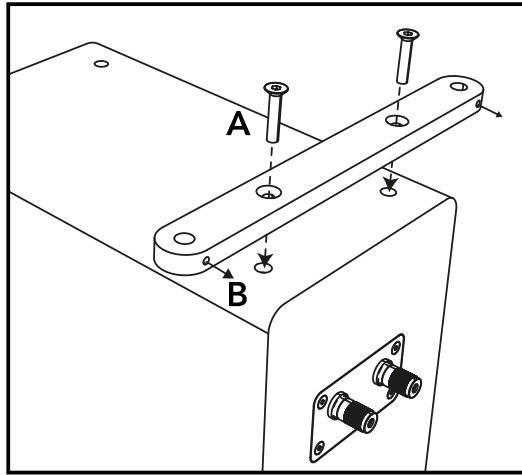
! Notice

Do not touch or press the woofers, midrange driver or tweeter on the front. This can damage the speakers.

Continue to Fitting the cross braces.

Fitting the cross braces

1. Carefully place the speaker upside down. Place a soft pad underneath the cabinet to protect it.
2. Attach the supplied cross braces using the matching countersunk screws (A). Use the supplied **4 mm hex key**.
3. Make sure the side screw threads face backwards (B), so that they are not visible from the front.

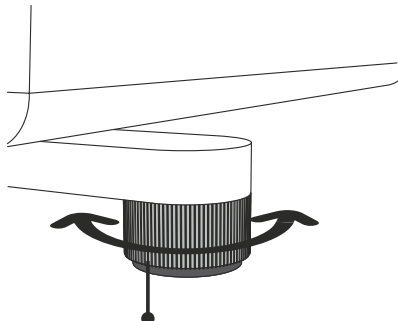


Continue to Fitting the feet or spikes.

Fitting the feet or spikes

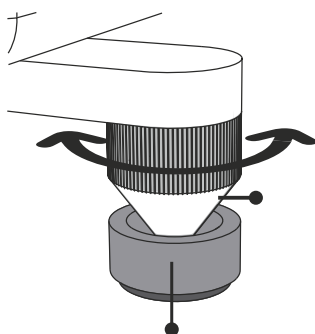
After fitting the cross braces, choose between speaker feet and spikes with pads. The spikes provide better acoustic decoupling.

Speaker feet



Adjust the height of the speaker feet by turning them to ensure stability on uneven floors.

Spikes and spike pads



To use the spikes, unscrew the speaker feet and replace them with the spikes. The height of the spikes can also be adjusted by turning them.

Place the supplied spike pads under the spikes to protect delicate floors.

! Notice

Placing the spikes directly on the floor offers the best acoustic performance according to the manual, but can damage the floor. Always use spike pads for safety. A second person can help when positioning the speakers.

Continue to Positioning the speakers.

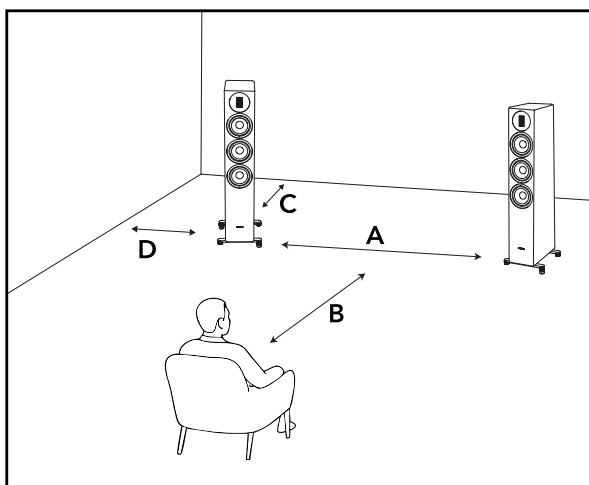
Positioning the speakers

Place ORCHESTRA Shaped Signature in a safe, suitable location. Check that natural wood surfaces are suitable: discolouration may occur on oiled or waxed surfaces.

! Notice

Always put spike pads under the spikes to prevent floor damage. Assistance from a second person is helpful when positioning the speakers.

Basic positioning



- **A - Speaker spacing:** 2 to 3 m
- **B - Listening distance:** speaker spacing $\times$ 1.25
- **C - Distance from the rear wall:** approx. 50 cm
- **D - Distance from side walls:** approx. 80 cm

Angle the speakers slightly towards the listening position. The tweeters should be approximately at ear level when you are seated in your preferred listening position.

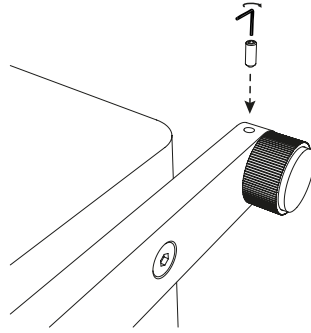
Room acoustics

- Avoid positioning the speakers in corners.
- Large furniture or TV units between the speakers impair the stereo image.
- Carpets and curtains improve room acoustics.

After alignment, secure the feet or spikes.

Securing the feet or spikes

Once the speaker is correctly aligned, secure the feet or spikes using the grub screws.



1. Use the supplied **2 mm hex key**.
2. Carefully tighten the grub screws clockwise.
3. Tighten only until the feet or spikes are secure.

! Notice

Overtightening can damage the threads.

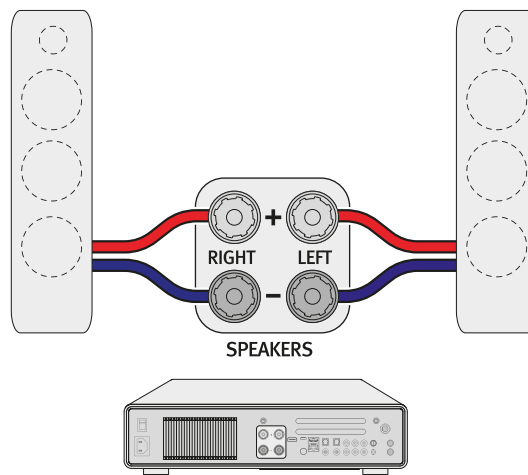
Continue to Connecting the amplifier.

Connecting the amplifier

! Notice

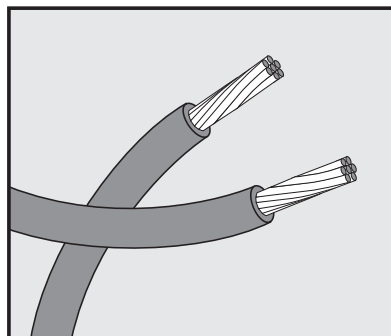
Switch off the amplifier before connecting the speakers to prevent short circuits.

1. Connect the right speaker to the amplifier's right channel.
2. Connect the left speaker to the amplifier's left channel.
3. Observe the correct polarity: connect **+** to **+** and **-** to **-**.



Prevent short circuits

- The bare wires of the speaker cables must not touch each other.
- The bare wires must not touch the backs of the speakers or their screws.

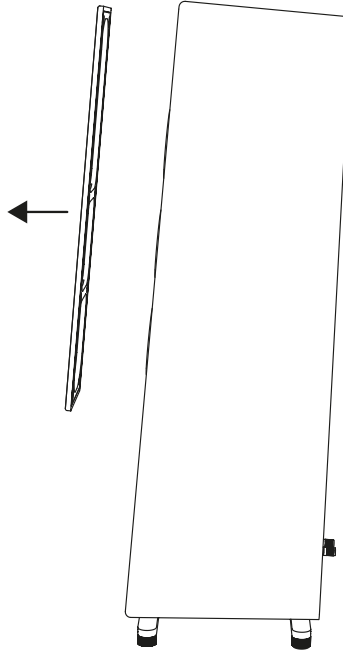


If there is no sound or playback is faulty, follow Troubleshooting.

Removing the speaker grille

The speakers can be used with or without the supplied grille. For the best sound quality, the manual recommends using them without the grille.

The grille protects against mechanical damage in everyday use.

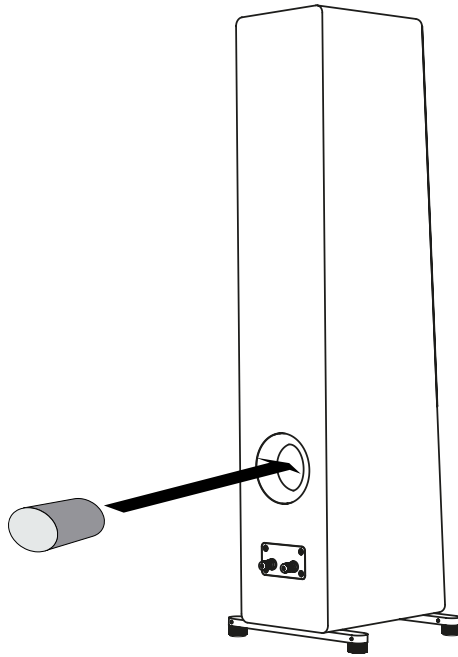


! Notice

Do not touch or press the woofers, midrange driver or tweeter when removing the grille.

Inserting the bass reflex plugs

If the speakers are too close to a rear wall or in a corner, the bass may sound too strong. Inserting the foam plug into the bass reflex port can improve this.



! Notice

Never push the plug completely into the bass reflex port.

Cleaning the speakers

Fingerprints and light soiling

Clean ORCHESTRA Shaped Signature only on the outside with a soft, dry cloth.

Heavy soiling

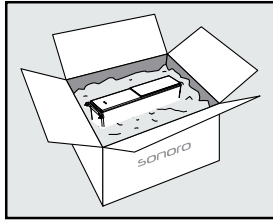
Clean ORCHESTRA Shaped Signature only on the outside with a slightly damp cloth, then dry with a soft, dry cloth.

All other cleaning methods can damage the speakers.

! Notice

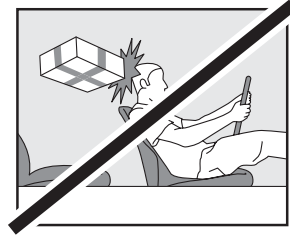
Do not attempt to clean the speaker diaphragms of ORCHESTRA Shaped Signature. This can cause damage.

Transport and shipping



Transport and shipping

For transport or shipping, pack the speakers in the supplied protective sleeves and original box. Keep the original packaging for this purpose. If you no longer have the original packaging, use sufficiently sturdy, protective packaging to prevent damage to ORCHESTRA Shaped Signature.



Transport in a vehicle

Secure ORCHESTRA Shaped Signature in a vehicle so that it cannot endanger the occupants. Incorrect transport or shipping can damage the speakers and impair their operation.

Protect the cabinet

The front, edges and corners of ORCHESTRA Shaped Signature are sensitive to pressure. Protect them against excessive loads. Never tilt the speakers over their edges or corners and never place them face down.

Troubleshooting

A malfunction does not necessarily indicate a speaker defect. Check the following possible causes.

No sound

Possible cause: amplifier fault

Connect a speaker known to work to the amplifier outputs. If there is still no sound, check that all electronics are switched on, the signal path is correct, the source is active and the volume is set.

Possible cause: speaker cables connected incorrectly

Check that all cables between the amplifier and speakers are connected correctly.

Weak bass response

Possible cause: speaker cables connected with reversed polarity

Check the connections: the amplifier's positive terminal (+) must connect to the speaker's positive terminal (+), and negative (–) to negative (–).

Constant noise, humming or buzzing

- **Poor amplifier grounding:** Check and correct the amplifier's grounding problem.
- **Faulty cable:** Replace it with a working cable.

Interrupted playback, crackling or distortion

Possible cause: speaker cables connected incorrectly

Check all connections on the amplifier and speakers to make sure they are correct and secure.

Switch off the amplifier before changing the speaker wiring. See [Connecting the amplifier](#).

If you cannot resolve the problem, contact [sonoro customer service](#).

Disposal at the end of service life



Do not dispose of in household waste. Devices bearing this symbol must not be disposed of in household waste. Take them to a collection point for recycling electrical and electronic equipment.

Information about disposing of old equipment is available from your local authority, local waste disposal company or the shop where you purchased the device.

Correct disposal of old equipment prevents environmental damage and protects your health.

Warranty

The following conditions apply to warranty claims, without restricting your statutory rights:

- Warranty claims can only be made within a maximum period of **5 years (1 year in North America and Australia)** from the date of purchase.
- During the warranty period, sonoro audio GmbH will, at its discretion, repair or replace the ORCHESTRA Shaped Signature free of charge to remedy any defects resulting from material or manufacturing faults.
- For warranty enquiries, please contact our customer service. Contact details are available under Document information or at sonoro.com.
- Repair or replacement of the ORCHESTRA Shaped Signature does not start a new warranty period. The warranty period remains 5 years, or 1 year in North America and Australia, from the date of purchase.
- The warranty excludes damage caused by improper use, normal wear and consumption, and defects that have only a minor effect on the value or usability of the ORCHESTRA Shaped Signature. The warranty is also void if repairs or modifications are carried out by anyone other than our authorised service centre.
- This warranty does not restrict or exclude the buyer's right to exercise statutory remedies for defects free of charge.

Declaration of conformity

Manufacturer:

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41460 Neuss
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Fax +49 2131 7517-599
support@sonoro.com



ORCHESTRA Shaped Signature (SO-1201)

For conformity documents for this model, please contact sonoro support. Please provide the product name and model number SO-1201.

support.sonoro.com

Request the declaration of conformity by email