# THS User Guide


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MARTIN AUDIO
LONDON

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# Introduction

The THS loudspeaker system combines advanced acoustic engineering with a compact, high-performance design. The system features three high-technology drivers housed in a compact trapezoidal enclosure. Its innovative three-way triaxial configuration delivers exceptional output for its size. Compared to conventional two-way systems, THS offers superior mid and high frequency performance. When paired with a compact Martin Audio SX subwoofer, the system becomes a powerful four-way setup with a minimal footprint.

To optimise amplifier usage, THS is designed for bi-amplification. An internal passive crossover network handles the mid/high frequency transition, simplifying system configuration.

At the heart of THS is a state-of-the-art triaxial driver. The low-frequency section features a reflex-loaded 15” (380 mm) driver with a 4” (100 mm) coil, waterproof cone and neodymium magnet. Coaxially mounted behind it are a 4” (100 mm) midrange ring radiator and a 2.5” (64 mm) high-frequency ring radiator, both equipped with high-temperature polymer diaphragms. These components integrate into a 1.4” (35 mm) exit that transitions through the LF magnet structure into an 85° x 50° horn, designed with a large mouth to maintain pattern control through the midrange. The horn is rotatable, allowing installation in either portrait or landscape orientation.

The enclosure is constructed from durable birch plywood and finished in a rugged textured black paint. It includes multiple threaded inserts for flexible mounting options using eye bolts, yokes or flying brackets. Twin handles aid in transport and installation, while a steel grille with triple-layer polyester backing protects the drivers from dust and moisture.

Recommended amplification includes Martin Audio iKON amplifiers with onboard DSP or VIA amplifiers paired with DX4.0, DX0.6 or DX0.4 controllers. THS systems can be accurately modeled in 3D using Martin Audio’s DISPLAY 3 design and prediction software.

# Connecting THS

The THS has two NL4 sockets on the rear panel, labelled INPUT (on the left) and LINK (on the right). Despite the labels, the two sockets are the same, so you can use them either way round. However, we recommend using them as labelled to simplify cabling checks.

For both sockets, the pins connect as follows:

- Pins 1+/1– connect to LF and link through to pins 1+/1– of the other socket.
- Pins 2+/2– connect to MF and HF and link through to pins 2+/2– of the other socket.

# Rotating the horn

We supply THS so that if the speaker is used in portrait orientation, the horn is in landscape, giving wide dispersion (85˚ horizontal, 50˚ vertical).

Depending on the coverage you require, you may need to rotate the horn:

- For wide dispersion in portrait, leave the horn unchanged.
- For wide dispersion in landscape, rotate the horn so that both the speaker and the horn are in landscape.
- For narrow dispersion in portrait, rotate the horn so that both the speaker and the horn are in portrait.

- For narrow dispersion in landscape, leave the horn unchanged so that the speaker is landscape and the horn is in portrait.

## Horn orientation

| Dispersion | Cabinet orientation | Horn orientation |
|---|---|---|
| Wide | Portrait | Landscape |
| Wide | Landscape | Landscape |
| Narrow | Portrait | Portrait |
| Narrow | Landscape | Portrait |

For details of how to remove the grille, rotate the horn and refit the grille, see the following sections.

## Removing the grille

THS has a sprung grille that clips into slots on the sides of the cabinet, making it quick and easy to remove.

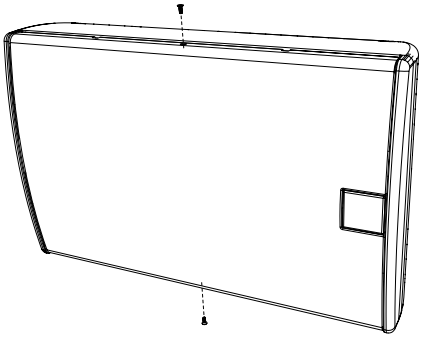
### To remove the grille

1. Place the speaker on a suitable surface.
2. Remove the two screws that secure the grille and keep these screws safe.

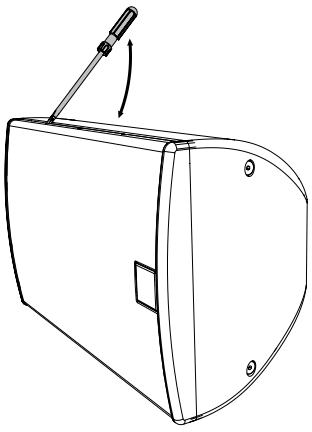
   Screw specification:

   M4 × 16 mm countersunk Pozidriv screws.

   Note that the images below show a CDD speaker as the grille removal procedure is the same for THS.

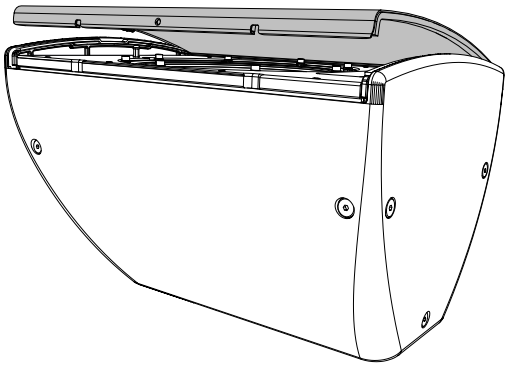


3. Insert an appropriately sized flat-bladed screwdriver into one of the two gaps at the side of the grille. Push it in as far as it goes.



4. Gently push the handle down to ease the grille from the slot.

5. Lift the handle slightly to ease the grille forward so that it doesn't clip straight back into the slot.
6. Repeat this process with the second gap on the same side of the cabinet, easing the grille out of the slot all the way along. The grille should now pop out of the slots on both sides.
7. If the grille locks part way out, gently press it to flatten it slightly while you lift the edge with your fingers.



## To rotate the horn

1. Remove the grille (page 6).
2. Remove the four screws and washers securing the horn, and keep them safe.
3. Carefully lift and rotate the horn.

   The centre section of the horn locates into the centre aperture of the driver so take care not to damage the driver. After rotating the horn, make sure the centre section is correctly seated in the driver.
4. Refit the four screws removed in step 2.

   Tighten the screws across the diagonals, starting with any screw and then tightening the one diagonally opposite.

   Torque: 2.5 Nm.

   Screw and washer specification:

   - M6 × 50 socket-head cap screw (black) with thread-locking patch.
   - M6 internal shake-proof washer (black).
5. If installing in landscape orientation, rotate the badge (page 7).
6. Refit the grille (page 7).

## Rotating the badge

We supply THS speakers with the Martin Audio badge in portrait mode. If you install in landscape, rotate the badge as described below.

### To rotate the badge

1. Remove the grille. For details, see Removing the grille (page 6).
2. Push the back of the badge to lift it slightly.
3. Rotate the badge and allow it to settle back into position.

## Refitting the grille

This is the reverse of the grille removal process.

### To refit the grille

1. Check that the grille is the right way up, with the badge at the bottom.
2. Insert one side of the grille into the slot on one side of the cabinet. Make sure the grille is completely engaged in the slot.
3. Push the front of the grille with the flat of your hand so that the other edge of the grille clips into place.

   When flexing the grille, keep it straight at the top and bottom to prevent damage to the cabinet paint.
4. Make sure that the grille is engaged in the slot by pushing the edge of the grille back starting at the top or bottom. You may need to do this a little at a time, working down the length of the grille until it pops into place.
5. Screw the two grille screws back in place.

   Screw specification:

   M4 × 16 mm countersunk Pozidriv screws.

# Mounting THS

THS can be used freestanding, mounted on truss or scaffold bars or flown using eye bolts (page 12), as explained in the following sections.

## Freestanding use of THS

The THS loudspeaker has a flat base in portrait, so you can place THS loudspeakers freestanding on floors and stages in this orientation.

## Truss mounting THS

To mount THS loudspeakers on truss or scaffold bars, use a yoke or an SBAR40 flying bracket. In either case, attach the yoke or SBAR40 to the structure using a third-party truss clamp or other suitable hardware.

Make sure that any third-party hardware is rated to support the combined weight of the speaker and the yoke or bracket (page 17).

If you use third-party metalwork instead of a yoke or SBAR40, you must secure it to the cabinet using at least two fixing points.

Flying heavy equipment in public spaces is extremely dangerous. Make sure the installer uses appropriately rated equipment and has suitable qualifications and experience.

### To mount THS on truss

1. Follow the instructions in either the Yoke mounting (page 9) section or the Installing SBAR40 (page 11) section.
2. Attach a third-party truss clamp or other suitable hardware to the yoke or SBAR40. For details of hole sizes, see the section Technical details of accessories (page 19).
3. Fit a secondary safety cable, as described below.

## Secondary safety cable

Use a chain or steel rope. Attach one end to an eye bolt fitted to the cabinet (page 12) and the other end to a suitably rated anchoring point. The anchoring point must be a permanent part of the building structure.

The safety cable must be rated to support at least four times the combined weight of the cabinet (35.6 kg) plus any attached hardware.

Use any of the M10 eye bolt fittings on the cabinet except the central round plates. The central round plates are designed for yoke fittings and must not be used as safety cable attachment points.

Do not attach the safety cable to the central round plates or to the yoke or bracket.

You can use the central mounting point on the rear of the cabinet as a safety cable mounting point.

When mounting the speaker on a truss or bar, you may attach the safety cable to the same truss or bar, provided it forms a permanent installation and is not part of temporary rigging.

If in doubt, check your local safety regulations.

# Yoke mounting

There are four yokes available for THS:

| Yoke | Description | Weight |
|---|---|---|
| THSYPT | Portrait touring yoke | 6 kg (13.2 lb) |
| THSYLT | Landscape touring yoke | 4.5 kg (9.9 lb) |
| THSYPI | Portrait installation yoke | 5 kg (11 lb) |
| THSYLI | Landscape Installation yoke | 3.8 kg (8.3 lb) |

## Touring yokes

The touring yokes feature quick-release handles allowing tool-free attachment and removal. You also use these handles to adjust the tilt. The touring yokes are sturdier and heavier than the installation yokes.

The portrait yoke has two cylindrical fittings that locate into the handle slots in the sides of the cabinet.

The landscape yoke attaches directly to the sides of the cabinet.

## Installation yokes

The installation yokes use bolts rather than handles, so you need a socket set or wrench to attach or remove them. To adjust the tilt, use a smaller socket spanner or wrench on the secondary bolt.

The portrait yoke has two cylindrical fittings that locate into the handle slots in the sides of the cabinet.

The landscape yoke attaches directly to the sides of the cabinet.

## Installing THS yokes

One side of the yoke is hinged, allowing you to open the yoke to help with fitting. To help with tilt adjustment, the yoke has lines marking every 10° of tilt and dots marking every 5°.

Due to the weight of the yokes, we recommend that one person holds the yoke in position while another person secures the bolts.

For dimensions, hole sizes and other technical details, see:


- Portrait installation yoke (page 19)
- Portrait touring yoke (page 20)
- Lanscape installation yoke (page 21)
- Lanscape touring yoke (page 22)

## To install THS yokes

1. If you are installing a portrait yoke, adjust the yoke cylinders so that the two pins next to the bolt will align with the holes in the side plates of the loudspeaker.
2. Open the hinged yoke arm so that you can fit the yoke to the sides of the loudspeaker. It doesn't matter which side you put the hinge.

   Double check that the pins are locating into the holes in the side plates.
3. **Touring yoke**: Tighten the bolts by rotating the quick-release handles. To avoid over tightening the bolts, tighten them with the handles closed (torque 5.2 Nm) and only use the quick-release mechanism for undoing the handles.

   **Installation yoke**: Tighten the central bolt on each side using a socket set or wrench (torque 5.2 Nm). To adjust the tilt, use the smaller secondary bolt (torque 5.2 Nm).

For details of how to mount yokes on truss, see Truss mounting THS (page 8).

# Installing SBAR40

The SBAR40 allows you to fly or mount a single THS cabinet in portrait or landscape.

- In portrait orientation, you can mount the SBAR40 in two positions, depending on whether you need down-tilt or up-tilt. In one position, the SBAR40 sits toward the rear of the top. In the other position, it sits toward the front. The bracket provides five angle settings in each direction, giving ten angles in total.
- In landscape orientation, the SBAR40 fits into the cabinet handle recess, and you can only mount it in one position. In this position, the SBAR40 provides five down-tilt angles. Up-tilt is not possible with the SBAR40 fitted for landscape orientation, so if you need this, use a yoke or eye bolts.

One side of the SBAR40 is hinged, allowing you to open the SBAR40 for fitting. A pin at the other end holds the SBAR40 closed. The suspension arm bolts to one of five holes allowing you to choose the speaker angle.

For dimensions, hole sizes and other technical details, see SBAR40 flying bracket (page 23).

## To install the SBAR40

1. Remove the pin at one end of the SBAR40 and open the bracket. This gives you access to the clamping knob.
2. Locate the SBAR40 on the round plate on the top or side of the cabinet. Double check that the pins are locating into the holes in the round plate.

   If you are installing in portrait orientation, make sure the SBAR40 is the correct way round to provide the required tilt. For down-tilt, fit the SBAR40 towards the rear of the top. For up-tilt, fit the SBAR40 towards the front of the top.

   In landscape orientation, the SBAR40 only fits one way, providing down-tilt only.
3. Turn the clamping knob and tighten securely.
4. Close the SBAR40 and reinsert the pin that holds it closed.
5. To change the speaker angle, move the mounting arm to a different hole. Remove the R-clip and bolt securing the mounting arm, reposition the arm, then reinstall the bolt and R-clip. Five mounting positions are available, each providing a different speaker angle.

For details of how to mount the SBAR40 on truss or a scaffolding pole, see Truss mounting THS (page 8).

# Flying THS with eye bolts

You can fly THS speakers from ceilings, trusses or poles using Martin Audio M10 shouldered eye bolts (sometimes written as eyebolts) (part number HTKCT06) and appropriately rated steel ropes or chains.

Martin Audio shouldered eye bolts are manufactured from cast steel and are specifically engineered and rated for flown applications.

Don't use eye bolts from other manufacturers, as this could be dangerous.

Forged-steel eye bolts available from DIY suppliers are **not** strong enough. Even cast or machined eye bolts rated for purpose can be unsuitable, as they can have wide shoulders that cause the bolt to tighten against the cabinet rather than the thread.

Flying heavy equipment in public spaces is extremely dangerous. Make sure the installer uses appropriately rated equipment and has suitable qualifications and experience.

## Mounting points

The THS cabinet has thirteen M10 threaded mounting points. With the speaker in portrait, the mounting points are positioned as follows:

- Three on the top and bottom, but not the central round plates.
- Two on each of the sides, but not the central round plates.
- Three on the rear, one of which is in the centre.

All of these mounting points have internal steel brackets. When you install an eye bolt, it threads into the internal bracket.

The mounting points are suitable for flying or safety cable attachment. The central rear mounting point is also suitable for these purposes.

Do not fit eye bolts to the central round plates. Use these plates with yokes or the SBAR40 flying bracket only.

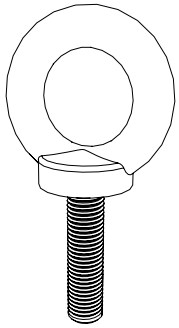
## To fly THS using eye bolts

The most common flying method is to use the four insert positions:

- Two front inserts as the primary suspension points.
- A third insert to provide downward tilt.
- A fourth insert for a secondary safety cable. If possible, attach the other end to a different anchoring point from the primary suspension points.

The minimum number of flying points is three: two inserts for primary suspension and a third for a secondary safety cable.

## M10 eye bolt HTKCT06



- M10 eye bolt for flying individual speakers
- Bolt size: 10 mm x 1.5 mm thread size
- Shank length: 35 mm (1 3/8 in)
- Working load limit: 740 kg (1,628 lbs)
- Material: Forged steel
- Weight: 120 g (0.27 lbs)

# THS amplifier compatibility

THS is bi-amped, so each loudspeaker uses two amplifier channels, or four channels when bridged in pairs, as shown below:

| Amplifier | Channels | Channels used | One speaker per channel (8 ohm) | Two speakers per channel (4 ohm) | Three speakers per channel (2.67 ohm) | Four speakers per channel (2 ohm) |
|---|---|---|---|---|---|---|
| **iK41** | Two channels | 2 of 4 | No | No | No | No |
| | Two bridged pairs | 4 of 4 | Yes | –0.3 dB | No | No |
| **iK42** | Two channels | 2 of 4 | –0.3 dB | –0.3 dB | –0.7 dB | –1.1 dB |
| | Two bridged pairs | 4 of 4 | Yes | Yes | No | No |
| **iK81** | Two channels | 2 of 8 | –1.1 dB | No | No | No |
| | Two bridged pairs | 4 of 8 | Yes | –1.1 dB | No | No |
| **VIA5004** | Two channels | 2 of 4 | No | No | No | No |
| | Two bridged pairs | 4 of 4 | Yes | –1.1 dB | No | No |
| **VIA2502** | Two channels | 2 of 2 | No | No | No | No |
| | Bridging not suitable | NA | NA | NA | NA | NA |
| **VIA5002** | Two channels | 2 of 2 | Yes | –1.1 dB | No | No |
| | Bridging not available | NA | NA | NA | NA | NA |
| **VIA2004** | Two channels | 2 of 4 | No | No | No | No |
| | Bridging not available | NA | NA | NA | NA | NA |

## Amplifier compatibility legend

| | |
|---|---|
| Yes | The amplifier channel can deliver the required power to achieve the full pink noise rated output of the loudspeaker, providing a reasonable amount of headroom for dynamic music content. |
| -1.0 dB | The amplifier channel provides sufficient power to meet the loudspeaker's RMS requirements (based on a 20 Hz – 20 kHz sine wave). However, it is unable to deliver the 6 dB peaks found in the AES pink noise test signal, which more accurately reflects the demands of dynamic music content. The table shows the shortfall in dynamic headroom, expressed in decibels. |
| No | The amplifier channel does not meet the loudspeaker's pink noise or RMS power requirements and is therefore not recommended. However, it may still be suitable if the application does not demand the full rated output of the loudspeaker. |
| NA | **Not available**: channel bridging isn't available with this amplifier. |

Note that it is far more likely that an underpowered amplifier will damage a loudspeaker than one with excess power. Modern limiters in speaker presets can safely manage the amplifier's output. However, driving a system into distortion due to an insufficiently powered amplifier can cause heat buildup and lead to voice coil burnout, which is the most common form of loudspeaker damage.

If you need assistance with system design, please contact Technical Support (page 25).

# System controllers

If you are using a VIA amplifier or an amplifier from another manufacturer, you will also need a system controller. We recommend the Martin Audio DX4.0, DX0.4 or DX0.6. For further details, see our website martin-audio.com.

If you are using an iKON amplifier (iK41, iK42 or iK81), you don't need a system controller as these amplifiers have on-board digital processing. For further details, see our website martin-audio.com.

## Loading iKON and DX4.0 presets

If you are using an iKON amplifier or a DX4.0 system controller, use **Vu-Net** software to load the THS presets.

To download this software, go to our website martin-audio.com, select **Support > Software/Firmware** and scroll to **VU-NET 2**.

### To load iKON and DX4.0 presets

1. Start **VU-NET** by selecting **Start** and typing **VU-NET** or by double-clicking the desktop shortcut.
2. Open a project by selecting **File** > **New** or **File** > **Open**.
3. Connect to your iKON or DX4.0 by clicking **Discover Devices** in the toolbar, or drag and drop an iK41, iK42, iK81 or DX4.0 from the menu on the left into the workspace.
4. Right-click the iKON or DX4.0 and select **Open Preset Manager**.
5. Select **TH Series** and click **ADD**.
6. If you are using THS with a subwoofer, select **High Pass**, then choose **THS 80Hz**. Otherwise, select **Full Range**, then choose **THS Full Range**.
7. Select the **Input Channel** and the **DSP Channel**.
8. For **Input EQ**, select **PRESERVE** to keep the existing user EQ on the selected DSP channel, or select **FLAT** to flatten it. For example, you might choose **PRESERVE** if you've already tuned the user EQ for the room. In most cases, we recommend selecting **FLAT** so you can start from a clean baseline.
9. Select **ADD**.
10. When you have finished setting up all channels, click **LOAD**.

For further details of **Vu-Net**, go to our website martin-audio.com, select **Support > Software/Firmware**, scroll to **VU-NET 2** and click **USER GUIDE**.

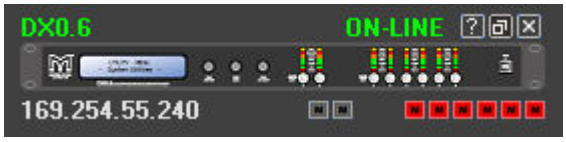
## Loading DX0.4 and DX0.6 presets

If you are using a DX0.4 or DX0.6 system controller, use the **DX0.4 and DX0.6 Control Software** to load the THS presets.

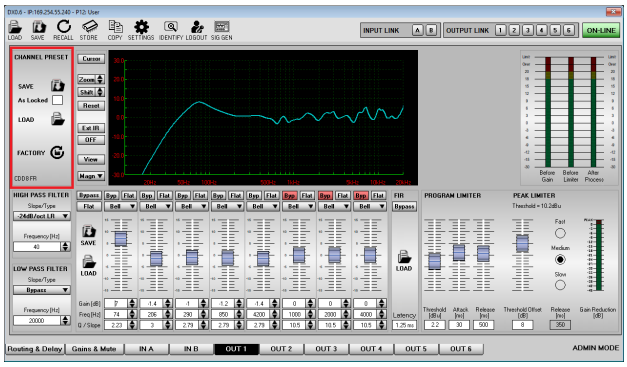
To download this software, go to our website martin-audio.com, select **Support > Software/Firmware** and scroll to **DX0.4 and DX0.6 Control Software**.

### To load DX0.4 and DX0.6 presets

1. Start the **DX0.4 and DX0.6 Control Software** by selecting **Start** and typing **DX Series** or by double-clicking the desktop shortcut.
2. Double-click the middle of a processor icon (shown below). This will load the processor window.




3. At the bottom of the processor window, click an output channel tab such as **OUT 1**.
4. In the **Channel Preset** section (highlighted in red in the screenshot below), click **LOAD**. Don't click the other **LOAD** button at top left of the processor window, as this is for loading all channels and settings for the processor.



5. Navigate to the folder you specified when you unzipped the control software. The presets are stored

in the folder `Output Channel Presets` with one subfolder for each speaker range.

For details of the THS presets, see the next section.

For further details of the **DX0.4 and DX0.6 Control Software**, go to our website martin-audio.com, select **Support > Software/Firmware**, scroll to **DX0.4 and DX0.6 Control Software** and click **USER GUIDE**.

## DX0.4 and DX0.6 presets for THS

The DX0.4 and DX0.6 have three presets for THS:

- THS LF HP 80Hz
- THS LF Full range
- THS MID-HF

If you are using THS with a sub, use **THS LF HP 80Hz** on one channel and **THS MID-HF** on another channel.

If you are using THS without a sub, use **THS LF Full range** on one channel and **THS MID-HF** on another channel.

## Using other controllers

If you use a controller from another manufacturer, you need to configure settings such as crossovers, limiters and equalisation points. You can find these settings in our **Loudspeaker parameter spreadsheet**, which we provide as a free download. For details of how to use the spreadsheet, read the instructions in the spreadsheet or watch the video guide.

### To download the loudspeaker parameter spreadsheet

1. Go to our website martin-audio.com.
2. Select **Support > Loudspeaker Settings**.
3. Scroll to **CURRENT-PRODUCT-PARAMETERS** and click **DOWNLOAD**.

### To watch the video guide

1. Go to our website martin-audio.com.
2. Select **Support > Loudspeaker Settings**.
3. Scroll to **PARAMETER VIDEO** and click **VIDEO**.

# System design

To design your system and decide on the best positions for speakers and subs, we recommend Martin Audio **Display 3** software, which we provide as a free download from our website.

Display 3 allows you to model your space and experiment with various system configurations and speaker positions. Display 3 predicts the performance of your experimental configurations, allowing you to optimise the performance of your system at the design stage.

## To download Display 3

1. Visit our website martin-audio.com.
2. Select **Support > Software/Firmware**.
3. Scroll to **Display 3** and click **Download**.

## EASE files

You can model THS in **EASE** by downloading a ZIP file of high-resolution GLL files, available as a free download from our website. THS is not supported in **EASE Focus**, the free version of **EASE**.

Note that we recommend using **Display 3** rather than **EASE**.

### To download the GLL files

1. Visit our website martin-audio.com.
2. Select **Support > GLL and CLF Data**.
3. Scroll to **TH series** and click **Download**.

## 3D SketchUp files

You can model THS in **SketchUp** by downloading the 3D SketchUp files, available as free downloads from our website.

### To download 3D SketchUp files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the THS speaker.
3. Select the **Technical drawings & 3D models** section and click **SKP-BLACK**.
4. To download SketchUp files for accessories, select the **Accessories** section and click **SKP-B**.

## DWG files

You can view THS technical drawings in CAD software such as AutoCAD by downloading the DWG files. These files are available as free downloads from our website.

### To download DWG files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the THS speaker.
3. Select the **Technical drawings & 3D models** section and click **DWG**.
4. For DWG files for accessories, select the **Accessories** section and click **DWG**.

# THS specification

| | |
|---|---|
| Type | Bi-Amp three-way (passive MF/HF) loudspeaker |
| Frequency response[1] | 54 Hz – 18 kHz ± 3 dB, –10 dB @ 43 Hz |
| Driver (LF) | Reflex-loaded 15” (380 mm) waterproof cone with 4” (100 mm) voice coil neodymium motor |
| Driver (MF) | 4" (100 mm) coaxial HT polymer ring radiator with 1.4" (35 mm) exit |
| Driver (HF) | 2.5" (64 mm) coaxial HT polymer ring radiator with 1.4” (35 mm) exit |
| Rated power[2] | LF: 800 W AES, 3200 W peak<br>MF/HF: 110 W AES, 440 W peak |
| Recommended electronics | iKON amplifier-processor or VIA amplifier with DX4.0, DX0.6 or DX0.4 system processor |
| Sensitivity[3] | LF: 100 dB<br>MF/HF: 109 dB |
| Maximum SPL[2,3] | 129 dB continuous, 135 dB peak, 141 dB peak with crest factor 4 |
| Nominal impedance | LF: 8 ohm<br>MF/HF: 8 ohm |
| Dispersion[4] | 85° horizontal, 50° vertical<br>User-rotatable horn |
| Crossover | 650 Hz, 4.8 kHz |
| Enclosure | Birch plywood |
| Finish | Textured black paint (RAL 9005) |
| Protective grille | Black perforated steel grille |
| Connectors | 2 x NL4 speakON connectors (NLT4MPXX-BAG) |
| Pin connections (input) | LF: 1+/1–<br>MF/HF: 2+/2– |
| Pin connections (link) | 1+/1– linked to 1+/1–<br>2+/2– linked to 2+/2– |
| Fittings | 13 x M10 inserts: 3 on top, 3 on bottom, 2 on left, 2 on right, 3 on rear<br>4 x M10 yoke or bracket mounting points<br>2 x Pocket handles |
| Dimensions | (W) 710 mm x (H) 457 mm x (D) 511 mm<br>(W) 28.0 in x (H) 18.0 in x (D) 20.1 in |
| Weight | 35.6 kg (78.5 lbs) |
| Accessories (optional) | Portrait touring yoke THSYPT<br>Landscape touring yoke THSYLT<br>Portrait installation yoke THSYPI<br>Landscape installation yoke THSYLI<br>M10 eye bolt HTKCT06<br>Flying bracket SBAR40 |

[1]On-axis in open space (4 pi) with full-range preset.

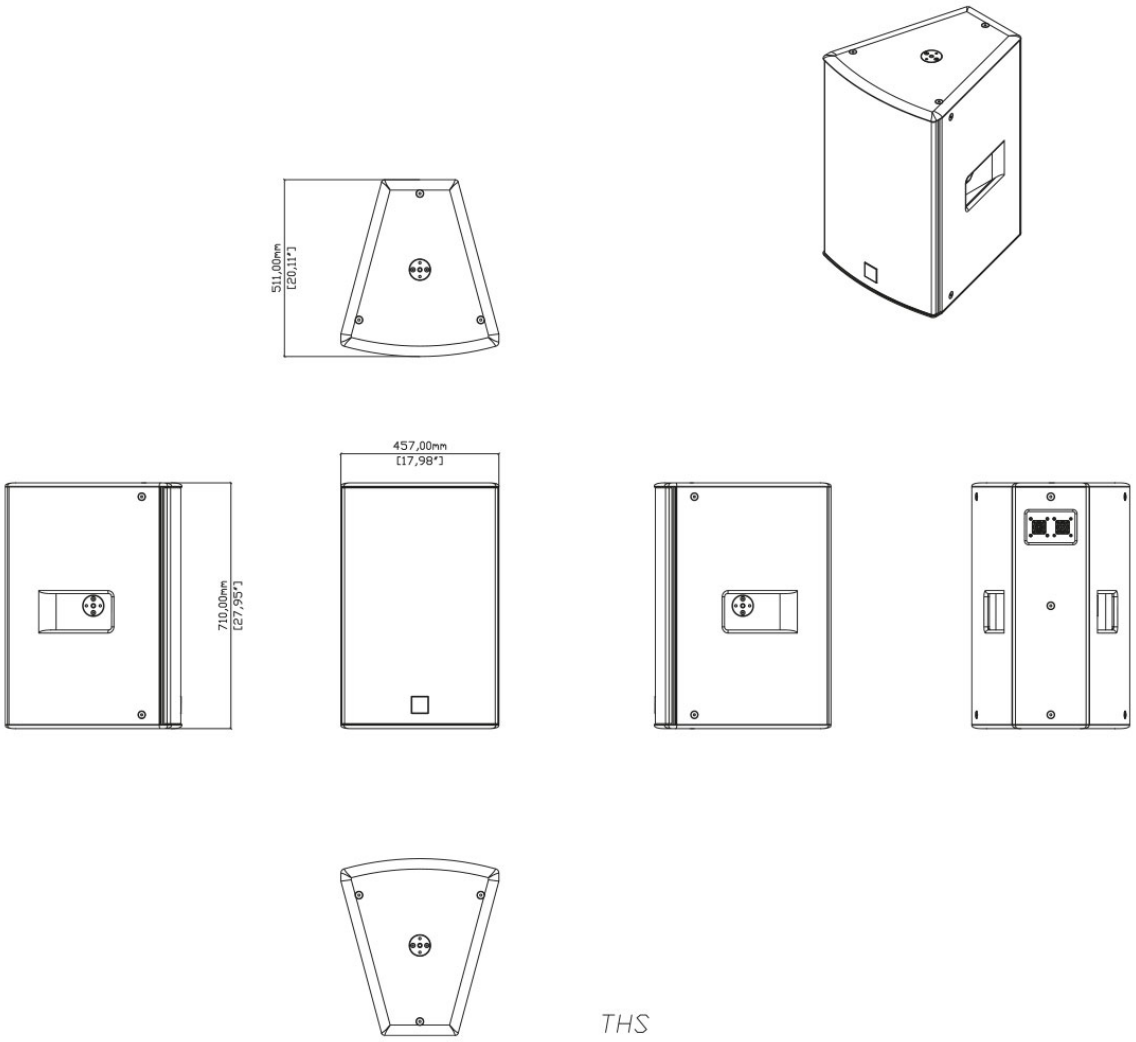
[2]Tested for 2 hours with band-limited pink noise as specified in AES2-1984 (r2003). Peak power defined as 6 dB above AES power.

[3]In open space (4 pi) at 1 m with 1 watt input, measured in the 2 pi (baffle) region.

[4]In open space (4 pi) at 2 m to –6 dB.

# Technical drawing

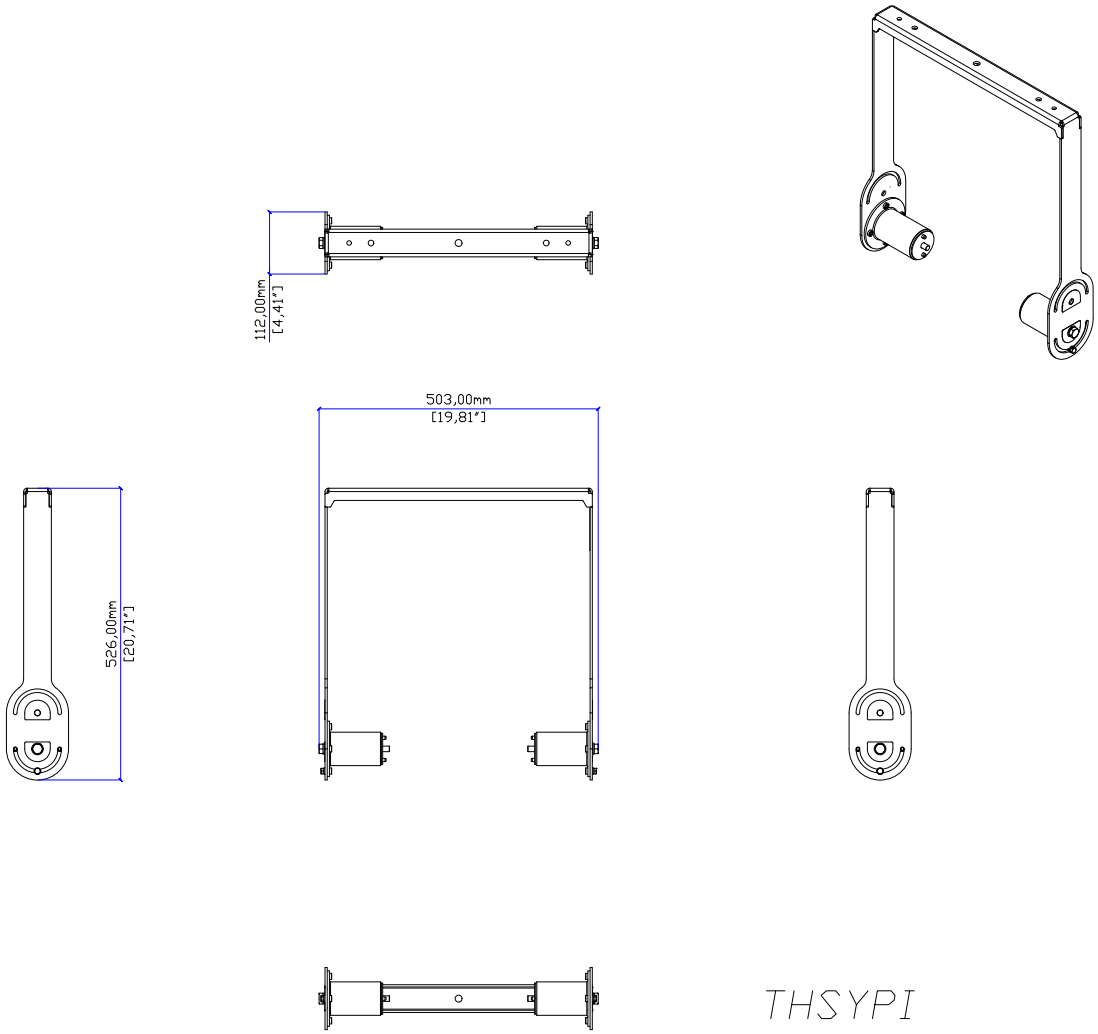
To load this drawing into CAD software, see DWG files (page 16).



# Technical details of accessories

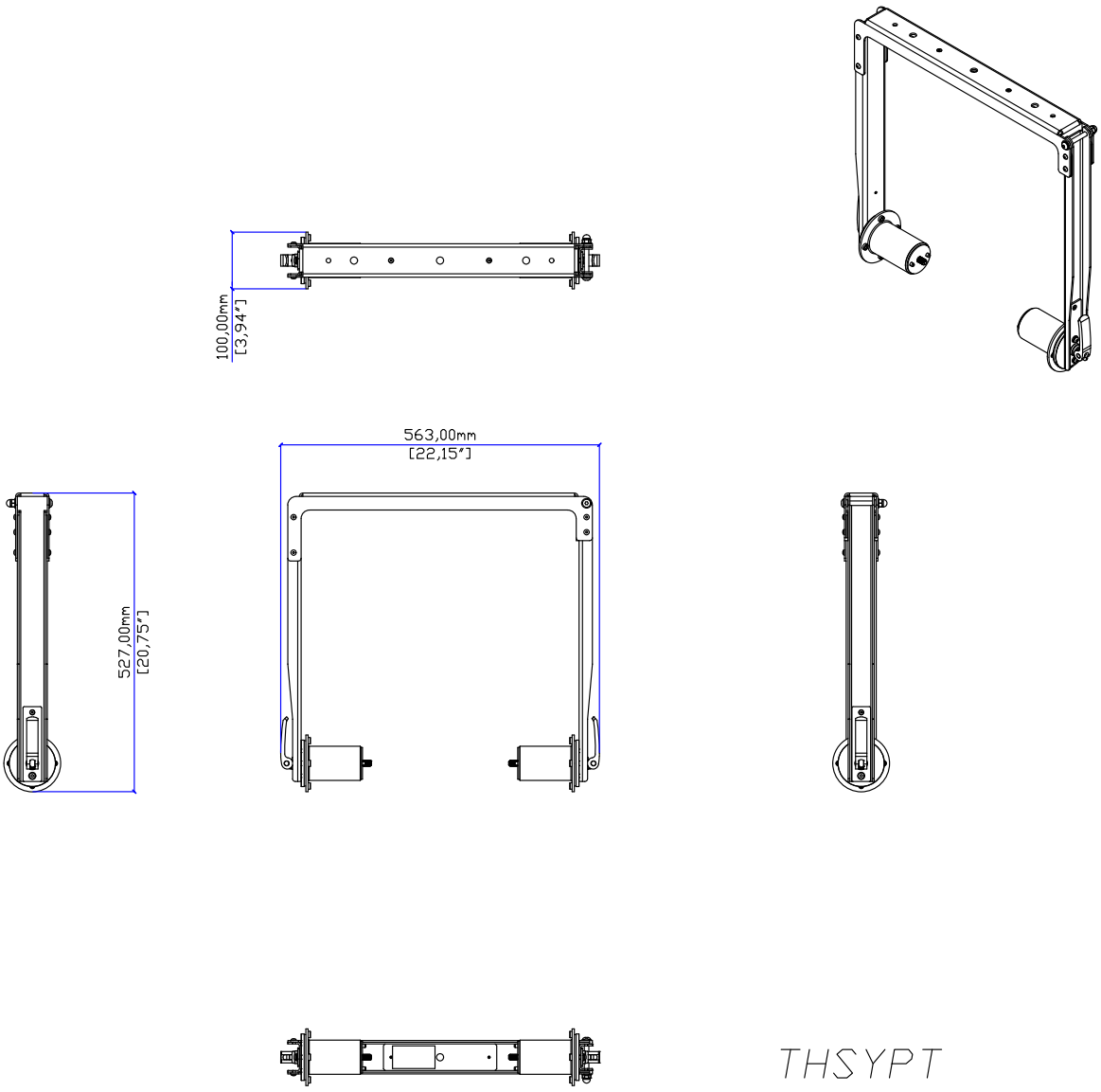
## Portrait installation yoke

- Product code: **THSYPI-B** (black only)
- Allows adjustment to tilt (adjust pan on installation)
- Truss and scaffold bar mounting: attach third-party hardware using the central 12.5 mm (0.49 in) hole
- Ceiling fixing: one central 12.5 mm (0.49 in) hole, two 10.2 mm (0.40 in) inner holes, two 8.2 mm (0.32 in) outer holes
- Weight: 5.0 kg (11.0 lb)
- See also: Installing THS yokes (page 9)



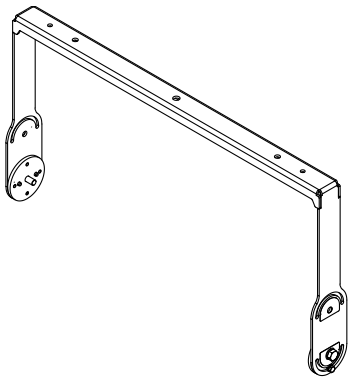
## Portrait touring yoke

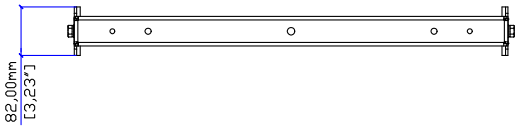
- Product code: **THSYPT-B** (black only)
- Allows adjustment to tilt (adjust pan on installation)
- Truss and scaffold bar mounting: attach third-party hardware using the central 12.5 mm (0.49 in) hole
- Ceiling fixing: one central 12.5 mm (0.49 in) hole, two 12.5 mm (0.49 in) inner holes, two 8.2 mm (0.32 in) outer holes
- Weight: 6.0 kg (13.2 lb)
- See also: Installing THS yokes (page 9)

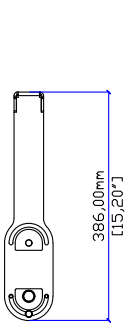


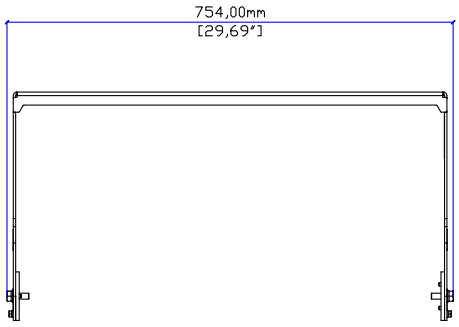
## Lanscape installation yoke

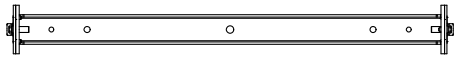
- Product code: **THSYLI-B** (black only)
- Allows adjustment to tilt (adjust pan on installation)
- Truss and scaffold bar mounting: attach third-party hardware using the central 12.5 mm (0.49 in) hole
- Ceiling fixing: one central 12.5 mm (0.49 in) hole, two 10.2 mm (0.40 in) inner holes, two 8.2 mm (0.32 in) outer holes
- Weight: 3.8 kg (8.3 lb)
- See also: Installing landscape yokes





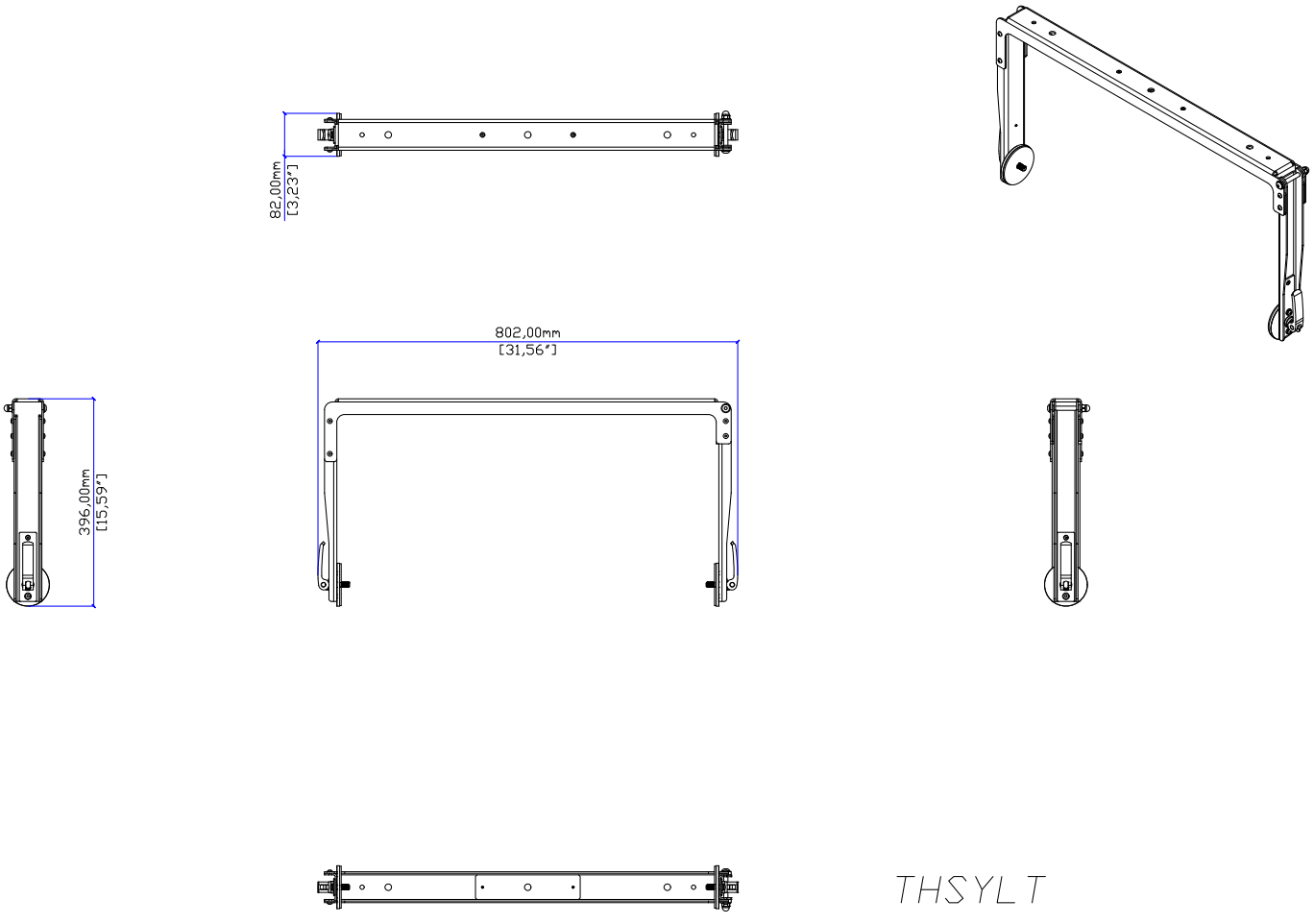



THSYLI

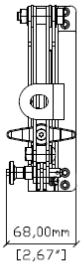
## Lanscape touring yoke

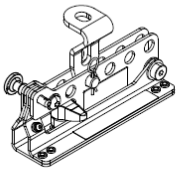
- Product code: **THSYLT-B** (black only)
- Allows adjustment to tilt (adjust pan on installation)
- Truss and scaffold bar mounting: attach third-party hardware using the central 12.5 mm (0.49 in) hole
- Ceiling fixing: one central 12.5 mm (0.49 in) hole, two 12.5 mm (0.49 in) inner holes, two 8.2 mm (0.32 in) outer holes
- Weight: 4.5 kg (9.9 lb)
- See also: Installing landscape yokes

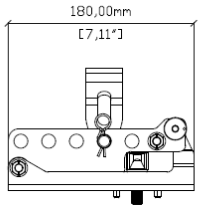


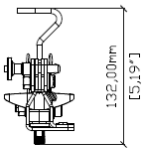
## SBAR40 flying bracket

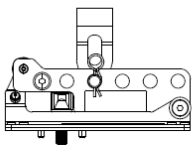
- Product code: **SBAR40** (black), **SBAR40-W** (white)
- Flying bracket for a single THS in portrait or landscape
- Also compatible with Torus T8 and T12, FlexPoint FP6, FP8, FP12 and FP15
- With THS in portrait orientation, the bracket provides ten tilt angles (five up and five down)
- With THS in landscape orientation, the bracket provides five down-tilt angles
- Truss and scaffold bar mounting: attach third-party hardware using the 13 mm (0.51 in) hole. The hole is slightly oval, allowing you to fit a long bolt by inserting the bolt at an angle
- Weight: 0.9 kg (1.98 lb)
- See also: Installing SBAR40 (page 11)

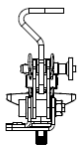


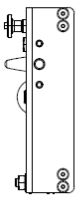









SBAR40

# THS spare parts

The following spare parts are available through our dealers. This is not an exhaustive list, so other parts may be available on request.

| Model | Spare part | Part number |
|---|---|---|
| THS | Triaxial driver | DLS15020 |
| | Bass recone kit | DLT15020 |
| | Mid recone kit | DLZ15020-MF |
| | HF diaphragm | DLZ15020-HF |
| | Crossover | ASM100257 |
| | Horn | DHN00034 |
| | Grille | ASM100196 |
| | Badge | HML04018 |

## Replacing the driver

If you replace the driver, apply a medium-strength threadlocker such as Loctite 243 when you bolt the new driver in place.

# Support and service

## Troubleshooting

Sound not right. Make sure the input and output connectors are fully plugged into the sockets. Check the sound quality with headphones at the amplifier or preamp.

## Technical support

For technical support, contact your supplier or Martin Audio. For Martin Audio technical support, visit martin-audio.com and select **Support > Support Contacts**.

## Service

For service information, go to our website martin-audio.com and select **Support > Service & Returns**.

## Warranty

For warranty information, go to our website martin-audio.com and select **Support > Service & Returns**.

## Unpacking

After unpacking, carefully check your speakers for any signs of transit damage. If you find any issues, inform your dealer straight away. If possible, keep the packaging for future use.

## Recycling

When the product reaches the end of its life, please dispose of it responsibly at a recycling centre.

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