

# SX215 User Guide



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## Table of Contents

Introduction .....	3
Optional accessories .....	4
Set of four castors WHEELKIT .....	4
Weatherised connector cover WRKIT .....	4
Transit cover SX215TC .....	4
M10 eye bolt HTKCT06 .....	4
Wind-up telescopic pole ASF20071 .....	4
Connecting the SX215 .....	6
Link cable .....	6
Weatherising the SX215 .....	7
To fit the weatherised connector cover .....	7
Fitting castors .....	8
To fit castors .....	8
Flying a single SX215 .....	9
To fly a single SX215 .....	9
Installing a pole .....	10
To install a pole .....	10
SX215 amplifier compatibility .....	11
System controllers .....	12
Using other controllers .....	12
System design .....	13
To download Display 3 .....	13
EASE Focus data .....	13
3D SketchUp file .....	13
Revit family .....	13
DWG file .....	13
Other SX subwoofers .....	14
SX215 specification .....	15
SX215 technical drawing .....	16
Troubleshooting .....	17
Technical support .....	17
Service .....	17
Warranty .....	17
Unpacking .....	17
Recycling .....	17

# Introduction



The SX215 is a powerful, compact subwoofer with an operating range of 45 - 100 Hz  $\pm$  3 dB. It features two long excursion 15" (380 mm) / 4" (100 mm) voice coil drivers with water-resistant cones and triple roll surrounds, delivering exceptional low-frequency extension and impact from a compact enclosure. Eight reflex ports with a large frontal area increase LF output efficiency and reduce turbulent air noise at high levels.

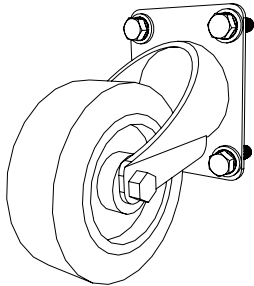
Finished in hardwearing textured paint, the SX215 incorporates threaded inserts for eye bolt suspension of a single enclosure, while an M20 threaded plate facilitates pole-mounting of Martin Audio full-range enclosures. Four ergonomic handles assist handling and installation, and the drivers are protected by a coated steel grille with an acoustically transparent fabric backing.

The SX215 can be used singly or stacked using the locating skids and mating channels on the top and bottom. Cardioid operation can be achieved by arranging the SX215 in forward and rear-facing pairs, with each enclosure powered individually in conjunction with dedicated DSP presets in the iK42 amplifier or DX series controllers (DX0.4, DX0.6 and DX4.0).

The SX215 is available exclusively in black. With the addition of an optional connector cover, the SX215 is weather resistant and suitable for outdoor use. Castors and transit cover are available as optional accessories.

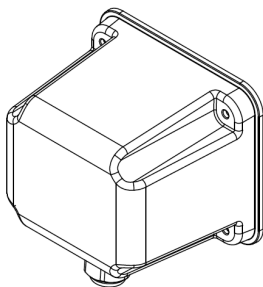
## Optional accessories

### Set of four castors WHEELKIT



- Four heavy-duty 10 cm (4 in) swivel castors
- Fittings: 16 M8 hex head bolts, 16 flat washers and 16 spring washers
- Optional accessory for Martin Audio 15" and 18" subwoofers (SX115, SXC115, SXCF115, SX215, SX118, SXC118, SXCF118, SX218, SXP118, SXP218, Blackline X115, X118, X218, XP118)
- Supplied with SXH218 and SXHF218

### Weatherised connector cover WRKIT

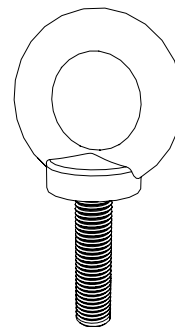


- Weatherised connector cover to protect the NL4 speaker connection and prevent water ingress
- Upgrades compatible subwoofers to IP24 rating
- Compatible with SX115, SX215, SX118, SXC118, SXCF118, SX218, SXH218 and SXHF218
- Two knockout holes, one on the side and one on the underside, allowing you to fit two cables or to choose where to fit one cable
- Contents of kit: connector cover, gasket, cable gland, lock nut, four cap head screws (M4 x 25 mm) and four fibre washers (M4)

### Transit cover SX215TC

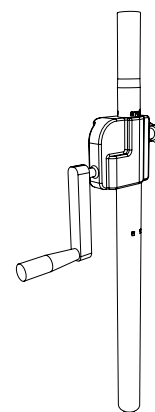
- Tour grade transit cover
- Cut outs for easy access to handles
- Protects the SX215 in transit

### 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)

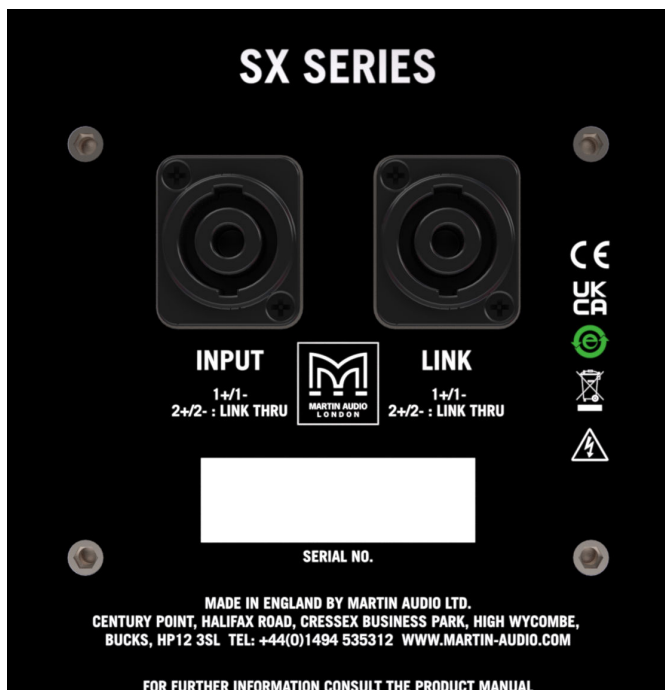
### Wind-up telescopic pole ASF20071



- Wind-up telescopic pole for mounting a portable speaker on a subwoofer
- Rugged steel pole with wind-up handle to allow you to raise and lower the speaker

- Locking screw and safety button
- Diameter: 35 mm (1 3/8 in) to fit standard top-hat fittings of portable speakers
- M20 threaded base fitting to attach to the subwoofer

## Connecting the SX215



The SX215 has two NL4 sockets on the back panel, labelled INPUT and LINK. Despite the labels, the two sockets are the same, so you can use them either way round. For both sockets, the pins connect as follows:

- Pins 1+/1– connect to the driver.
- Pins 2+/2– connect to pins 2+/2– of the other socket for use as a link.

### Link cable

To link through to another speaker, use a cable where pins 2+/2– of the link connector connect to pins 1+/1– of the input connector for the other speaker.

# Weatherising the SX215

To weatherise the SX215 for outdoor use, you just need to fit an optional weatherised connector cover [WRKIT \(page 4\)](#). The rest of the subwoofer is already prepared.

The connector cover protects the NL4 connection and prevents water ingress. It upgrades the SX215 to an IP24 rating.

## To fit the weatherised connector cover

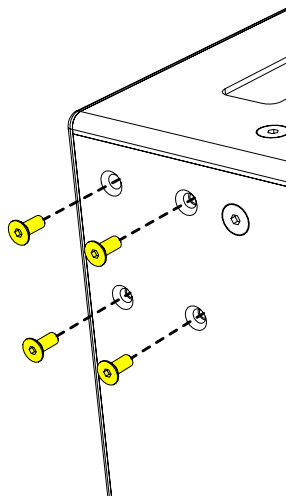
1. Remove one of the two knockouts from the connector cover. The knockout to use depends on your preferred cable angle. If you are using a link cable, remove both knockouts.
2. Fit the cable gland.
3. Feed the speaker cable through the gland and attach an NL4 connector. If the cable already has an NL4 connector, you will need to remove it first.
4. Remove the four screws from the connector panel on the back of the sub.
5. Plug in the NL4 connector.
6. Hold the cover and gasket in position and pull any excess cable through the cable gland.
7. Secure the cover using the fittings from the kit: these are four cap socket screws (M4 x 25 mm) and four M4 fibre washers.
8. Tighten the cable gland to ensure a waterproof seal.

# Fitting castors

To fit castors to the SX215 you need an optional [WHEELKIT \(page 4\)](#) accessory. This is a set of four swivel castors along with all required bolts and washers.

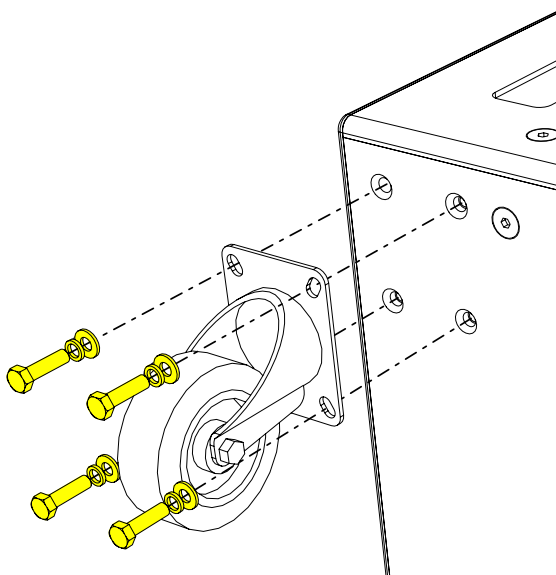
## To fit castors

1. Remove the M8 counter-sunk screws from the back of the SX215.



2. Bolt each castor in place using the fittings from the kit.

**Order of fittings:** cabinet, castor, flat washer, spring washer, bolt.



Make sure you use the bolts from the kit. The screws from the cabinet aren't suitable.



## Flying a single SX215

You can fly individual SX215 subwoofers from ceilings, trusses or poles by using Martin Audio M10 shouldered eye bolts (HTKCT06) and appropriately rated steel ropes or chains.



Eye bolts allow you to fly single subwoofers only.

Note that Martin Audio shouldered eye bolts are made of cast steel and are specifically engineered and rated for flown applications.



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

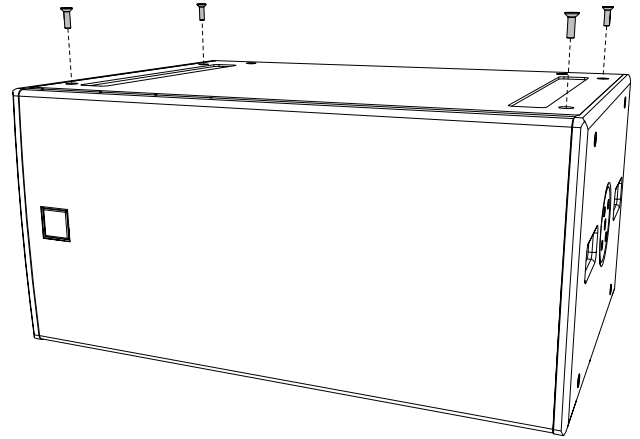
Forged-steel eye bolts available from DIY suppliers are definitely not strong enough. Even cast or machined eye bolts rated for purpose can be unsuitable, as they can have wide shoulders that cause the bolt to tighten against the cabinet rather than the thread.

The SX215 has 24 M10 inserts: six on the top, six on the bottom, four on each side and four on the back.



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

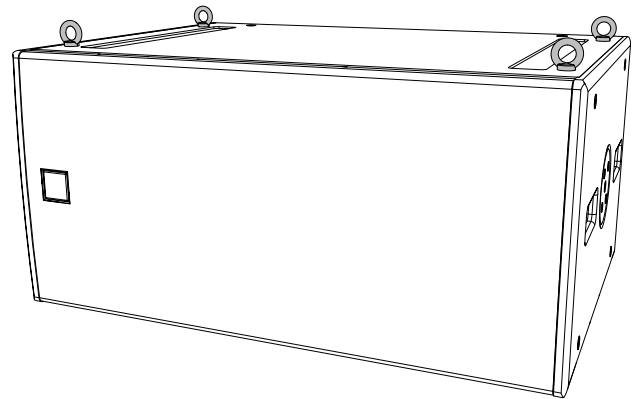
eye bolts. We recommend five eye bolts: four to fly the subwoofer and one as a redundant safety bond.



2. Install suitably rated fixings, such as sleeve anchors for ceilings, or girder clamps for trusses and scaffolding.

Install the safety bond fixing in a different place from the main fixings. This is so that it can support the cabinet if the main fixings fail.

3. Connect the eye bolts and fixings using suitably rated steel rope or shackles and chains.



## To fly a single SX215

1. Remove some of the M10 counter-sunk screws from the SX215 (usually from the top) and screw in M10

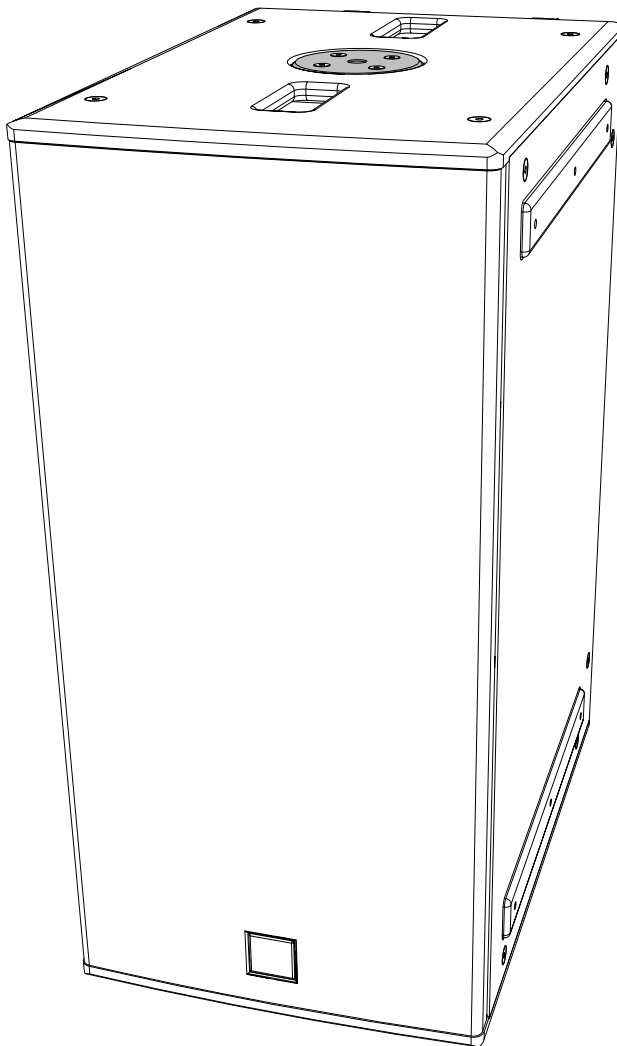
## Installing a pole

The SX215 has a top-mounted M20 thread plate for installing a pole, such as the Martin Audio [wind-up telescopic pole ASF20071](#) (page 4). This pole allows you to mount a speaker with a top hat fitting and a weight up to 35 kg (77.2 lbs), such as CDD-LIVE, XD, WPM and MLA Mini. The wind-up mechanism allows you to mount the speaker at a lower level and then raise it into position.

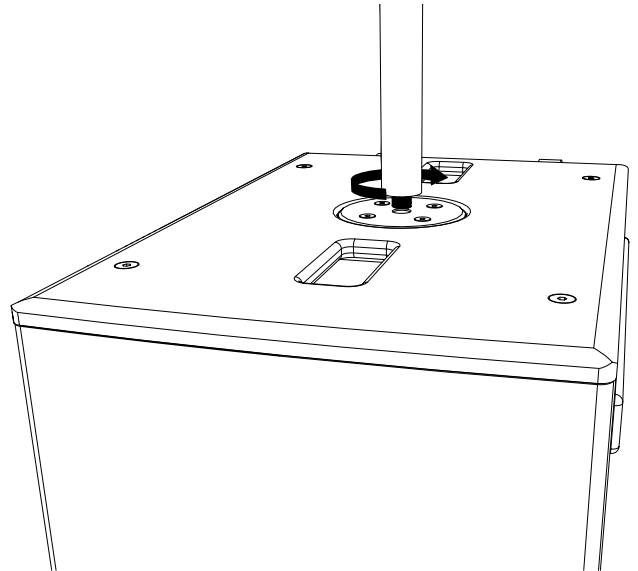
Note that you can mount up to four WPM or MLA Mini on the ASF20071 by setting the pole at or below the level marked "Preset". The maximum load at this level is 56 kg (123.5 lbs).

### To install a pole

1. Place the cabinet on a secure platform with the round plate on the top.



2. Screw the threaded pole into the M20 plate until secure.



## SX215 amplifier compatibility

Amplifier	Channels	Channels used	One SX215 per channel (4 ohm)	Two SX215 per channel (2 ohm)
<b>iK41</b>	One channel	1 of 4	No	No
	Two channels bridged	2 of 4	–0.3	No
<b>iK42</b>	One channel	1 of 4	–0.3	–1.1
	Two channels bridged	2 of 4	Yes	No
<b>iK81</b>	One channel	1 of 8	No	No
	Two channels bridged	2 of 8	–1.1	No
<b>VIA5004</b>	One channel	1 of 4	No	No
	Two channels bridged	2 of 4	–1.1	No
<b>VIA2502</b>	One channel	1 of 2	No	No
	Two channels bridged	2 of 2	–1.1	No
<b>VIA5002</b>	One channel	1 of 2	–1.1	No
	Bridging not available	NA	NA	NA
<b>VIA2004</b>	One channel	1 of 4	No	No
	Bridging not available	NA	NA	NA

# System controllers

For system controllers, we recommend the Martin Audio DX0.4, DX0.6 or DX4.0. Note that if you use an iKON amplifier, you don't need a system controller as these amplifiers have on-board system processing. For further details, see our website [martin-audio.com](http://martin-audio.com).

## 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](http://martin-audio.com).
2. Select **Support > Loudspeaker Settings**.
3. Scroll to **CURRENT-PRODUCT-PARAMETERS** and click **DOWNLOAD**.

### To view the video guide to the parameter spreadsheet

1. Go to our website [martin-audio.com](http://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](https://martin-audio.com).
2. Select **Support > Software/Firmware**.
3. Scroll to **Display 3** and click **Download**.

## EASE Focus data

For acoustic modeling of the SX215, we recommend **Display 3**. If you wish to use EASE Focus, we provide a zip file of high-resolution GLL files as a free download.

## To download GLL files

1. Visit our website [martin-audio.com](https://martin-audio.com).
2. Select **Support > Measurement Data**.
3. Scroll to **SX Series** and click **Download**.

## 3D SketchUp file

For modelling the SX215 in **Sketchup**, we provide a 3D SketchUp file as a free download.

## To download the 3D Sketchup file

1. Visit our website [martin-audio.com](https://martin-audio.com).
2. Select **Products > Product List** and click on **SX215**.
3. Select the **Technical drawings & 3D models** section and click **SKP-BLACK**.
4. For accessories, select the **Accessories** section and click **SKP-B**.

## Revit family

For modelling the SX215 in Revit, we provide a Revit family as a free download.

## To download the Revit family

1. Visit our website [martin-audio.com](https://martin-audio.com).
2. Select **Products > Product List** and click on **SX215**.
3. Select the **Technical drawings & 3D models** section and click **REVIT FILE**.

## DWG file

For viewing the SX215 technical drawing in CAD software (such as AutoCAD), we provide a DWG file as a free download.

## To download the DWG file

1. Visit our website [martin-audio.com](https://martin-audio.com).
2. Select **Products > Product List** and click on **SX215**.
3. Select the **Technical drawings & 3D models** section and click **DWG**.
4. For DWG files for accessories, select the **Accessories** section and click **DWG**.

## Other SX subwoofers

The SX Series subwoofers are a range of sub bass enclosures designed to complement Martin Audio full range systems. The range encompasses installation and touring subs, from ultra-compact miniature subs perfect as discreet, unobtrusive installation partners to the ADORN or CDD ranges, right up to very high output twin 18" models perfect for touring use in conjunction with Wavefront Precision line arrays. The larger models are built to be weather resistant and when used with an optional connector cover are suitable for occasional outdoor use as a portable system or for installation outdoors, as long as they are not directly exposed to the elements.

The range includes two powered, Dante equipped subwoofers. These are an ideal partner for CDD-LIVE. The range also includes three marine passive subwoofers for use in saltwater environments such as cruise ships and beach-side locations.

The optional accessories include eye bolts for flying smaller models, frames for flying larger models, and castors and rugged transit covers for use in touring.

For further details, visit our website [martin-audio.com](http://martin-audio.com).

### Passive SX subwoofers

		Castors	Transit cover	Weatherised connector cover	Marine version available
SX110	10" passive subwoofer	No	No	No	
SX210	Dual 10" passive subwoofer	No	No	No	
SX112	12" passive subwoofer	No	No	No	Yes
SX212	Dual 12" passive subwoofer	No	No	No	
SX115	15" passive subwoofer	Optional	Optional	Optional	
SXC115	15" passive cardioid subwoofer	Optional	Optional	No	
SXCF115	15" passive cardioid flown subwoofer	Optional	Optional	No	
SX215	Dual 15" passive subwoofer	Optional	Optional	Optional	
SX118	18" passive subwoofer	Optional	Optional	Optional	Yes
SXC118	18" passive cardioid subwoofer	Optional	Optional	Optional	
SXCF118	18" passive cardioid flown subwoofer	Optional	Optional	Optional	
SX218	Dual 18" passive subwoofer	Optional	Optional	Optional	Yes
SXH218	Hybrid® horn/reflex, dual 18" passive subwoofer	Supplied	Optional	Optional	
SXHF218	Hybrid® horn/reflex, dual 18" passive flown subwoofer	Supplied	Optional	Optional	

### Powered SX subwoofers

		Castors	Transit cover	Rain cowl
SXP118	18" powered portable subwoofer	Optional	Optional	Optional
SXP218	Dual 18" powered portable subwoofer	Optional	Optional	Optional

# SX215 specification

Type	Dual driver, direct radiating subwoofer
Frequency response <sup>1</sup>	45 Hz – 100 Hz $\pm$ 3 dB, –10 dB @ 36 Hz
Drivers	LF: 15" with 4" voice coil, ferrite motor system
Rated power <sup>2</sup>	1,600 W AES, 6,400 W peak
Recommended amplifier	iK42
Sensitivity <sup>3</sup>	103 dB
Maximum SPL <sup>3</sup>	135 dB continuous, 141 dB peak, 147 dB peak with crest factor 4
Nominal impedance	4 ohms
Dispersion	Omni-directional or cardioid when paired
Crossover frequency	100 Hz
Enclosure	Birch plywood
Finish	Black (RAL 9005)
Grille	Perforated steel
Connectors	2 x NL4
Fittings	Two skids on base with mating channels on top M20 top-mounted thread plate for optional pole Four pocket handles 24 x M10 mounting points for optional eye bolts 16 x M8 inserts for optional castors
Dimensions	(W) 961 mm x (H) 463 mm x (D) 679 mm (807 mm with castors) (W) 37.83 in x (H) 18.23 in x (D) 26.73 in (31.77 in with castors)
Weight	64 kg (141 lbs)
Optional accessories	Set of four castors WHEELKIT Weatherised connector cover WRKIT Transit cover SX215TC M10 eye bolt HTKCT06 Wind-up telescopic pole ASF20071

<sup>1</sup>On-axis in open space (4 pi) at 1 m.

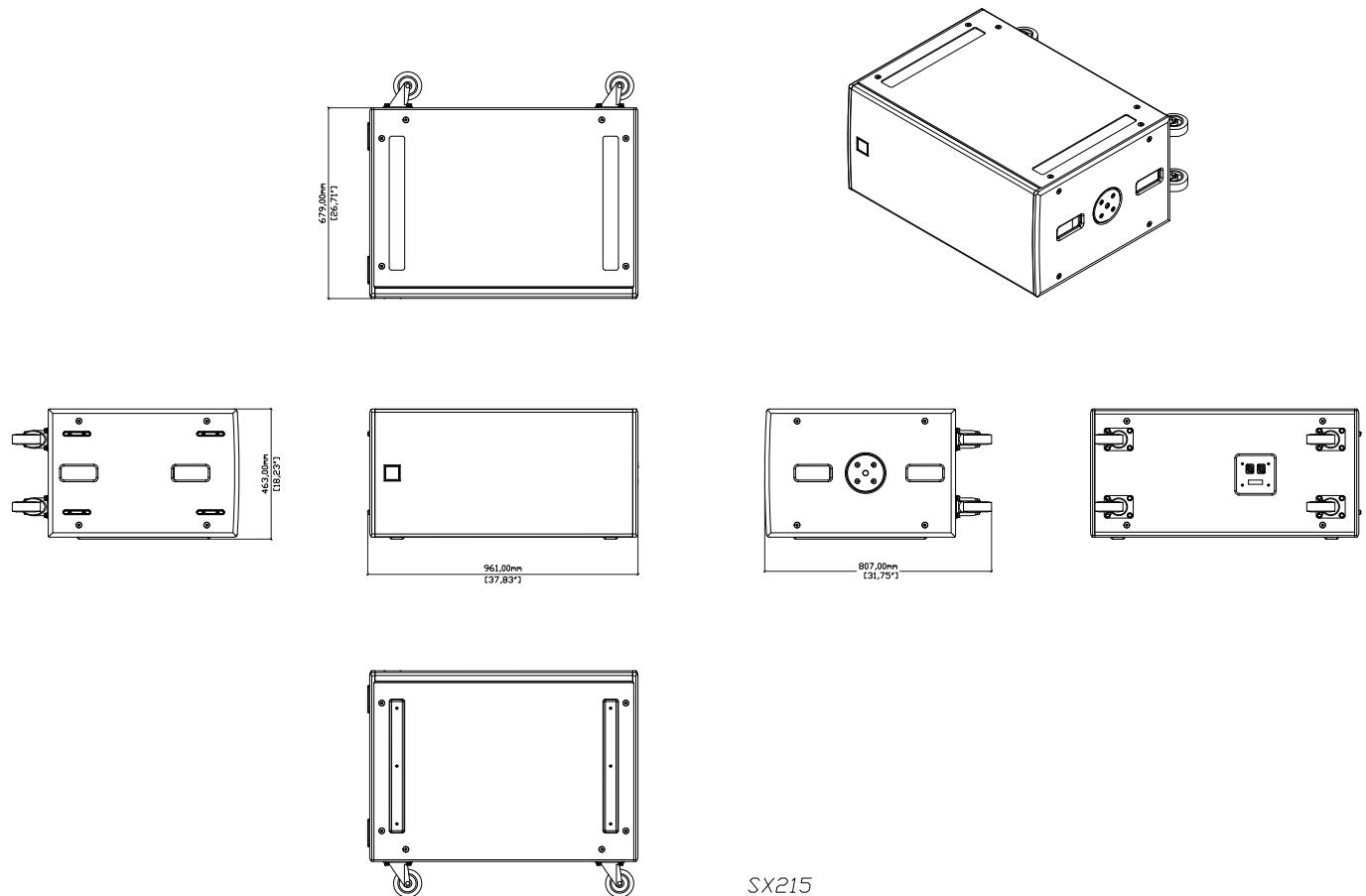
<sup>2</sup>AES Standard ANSI S4.26-1984.

<sup>3</sup>In half space (2 pi) at 1 m with 1 W input and band-limited pink noise.

# SX215 technical drawing

The drawing below shows the SX215 with castors. These are an optional accessory.

To load this drawing into CAD software, see [DWG files \(page 13\)](#).





# 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 technical support.
- For Martin Audio technical support, go to our website [martin-audio.com](http://martin-audio.com) and select **Support > Support Contacts**.

## Service

- For service information, go to our website [martin-audio.com](http://martin-audio.com) and select **Support > Service & Returns**.

## Warranty

- For warranty information, go to our website [martin-audio.com](http://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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