



S-15 Subwoofer

Product User Manual
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emacoustics

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DECLARATIONS OF CONFORMITY



This declaration applies to:

10M303 - S-15 compact reflex subwoofer

This declaration also applies to all product variants, provided that they conform to the original technical specification and have not been subject to any non-factory modifications.

We herewith declare that the products listed above are in conformity with the provisions of the respective directives including all applicable amendments.

Details of the applicable declarations can be downloaded from our website www.emacoustics.co.uk on the individual product pages.

WEEE Declaration



This product and its packaging constitute the applicable product according to the WEEE directive. Please ensure that at the end of the working life of this product, it is disposed of sensibly in accordance with local and national recycling regulations.

The packaging supplied with this product is recyclable.

Please retain all packaging, however if disposing of this packaging please ensure that you comply with local recycling regulations.

WEEE Producer Registration Number WEE/HH0101WU.

1.0 - Introduction

Thank you for purchasing the S-15 subwoofer from EM Acoustics. This product has been designed and rigorously tested to give you the utmost in sonic performance and many years of reliable, trouble-free operation. Please take the time to read this user manual thoroughly to ensure you get the best performance from your system and to ensure you set it up correctly and safely. If you have any questions or are in any doubt whatsoever about any aspect of your new product, please do not hesitate to contact us directly or your local EM Acoustics representative.

The S-15 is a compact reflex subwoofer, intended for a wide variety of low frequency applications in small to medium applications. The S-15 is equally at home in permanent installations as well mobile applications due to its rugged construction. A state-of-the-art 15" high-excursion neodymium drive unit allows a surprising amount of SPL and low frequency extension from a compact and lightweight cabinet.

This manual contains all the information you should need on topics of set up, amplifier connection and basic service. If you feel we have missed anything, or you have a question not covered by this manual, please visit our website www.emacoustics.co.uk and send us a message or give us a call - we're only too happy to help.

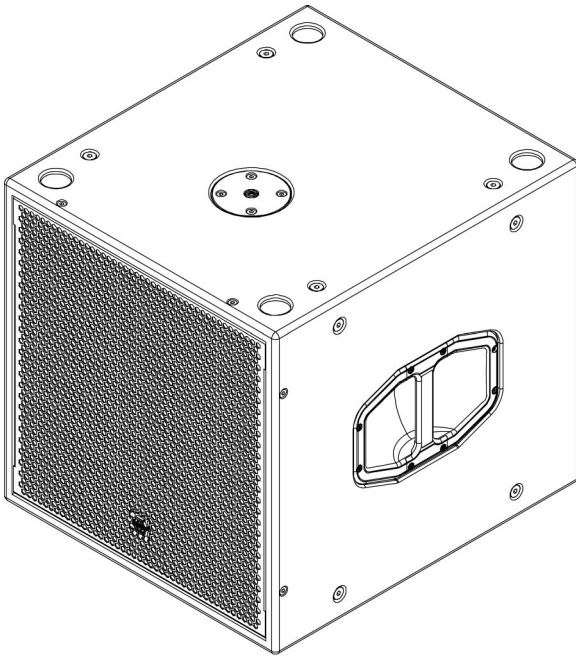
Unpacking

Please take care when unpacking your loudspeaker system. Once unpacked, please inspect each enclosure thoroughly for any transit damage and in the case of any damage please notify your carrier immediately. It is the responsibility of you, the consignee, to instigate any claim. Please retain all original packaging in case of future re-shipment.

2.0 - S-15 Subwoofer & Accessories

S-15

Compact reflex subwoofer



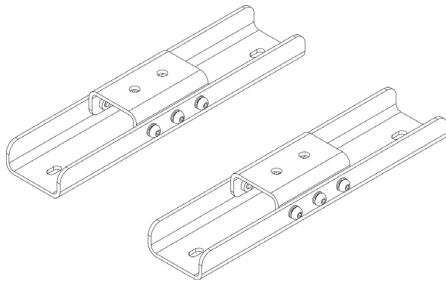
FEATURES & BENEFITS

- Signature EM Acoustics “maximum headroom” design approach ensures consistency of performance regardless of SPL level.
- Integral M20 threaded pole adapter for mounting of fullrange loudspeakers.
- Multiple M10 threaded flying points for temporary and permanent installation.
- Enclosure coated with 3-step polyurethane process - ensuring the cabinets are not only weather resistant but more resilient to impact damage.
- Various features and accessories for easy moving & handling.
- Tour grade castor set included.
- Single amplifier channel required.

KEY SPECIFICATIONS

ENCLOSURE TYPE:	Compact reflex subwoofer
DRIVE UNITS:	1 x 15" neodymium LF drive unit
FREQUENCY RESPONSE:	40Hz - 150Hz +/-3dB
NOMINAL DISPERSION1:	omniirectional
MAXIMUM SPL:	128dB continuous, 134 dB peak
NOMINAL IMPEDANCE:	8 ohms
DIMENSIONS (HxWxD):	519 (20.4) x 510 (20.1) x 570 (22.4) mm/(ins)
NET/SHIPPING WEIGHT:	36/39kg (79.2/85.5lbs)

S-15/S-18 Lifting Bar Set



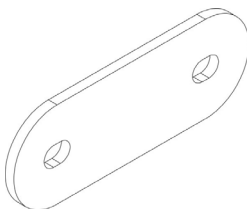
The S-15/S-18 lifting bar set provides a simple and safe means of suspending subwoofers in both fixed and mobile environments - either single units, or columns in both conventional and cardioid format.

Each of the two bars are secured to the cabinet by means of M10 socket head bolts into the top of the subwoofer. 13mm diameter fixing points are provided at the top of each bar for attachment either in installations or via a hook clamp or similar.

The S-15/S-18 lifting bar set is designed to support a maximum of four S-15 subwoofers.

Weight (per set, including fixings) 6.5kg / 14.3lbs

S-15/S-18 Flying Plate Set



The S-15/S-18 flying plate set is designed to suspend one S-15 or S-18 subwoofer below another, in either conventional or cardioid format.

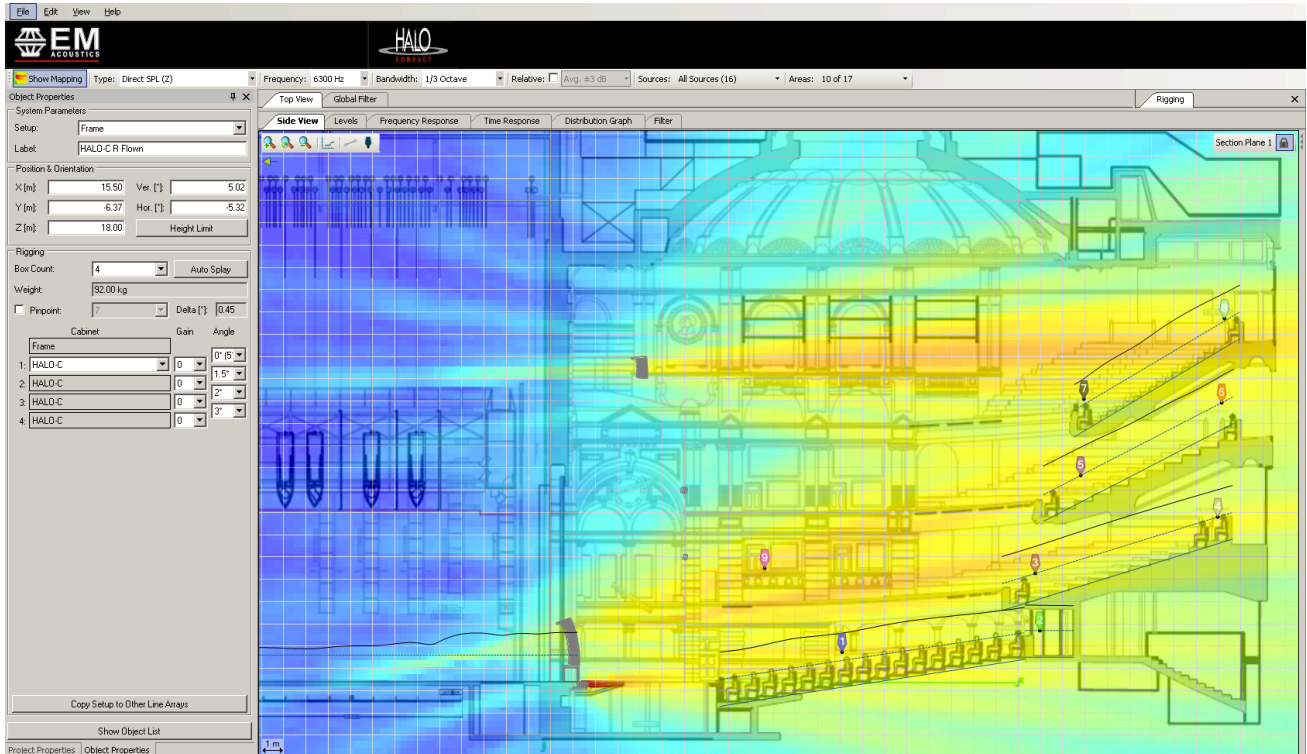
The set comprises four steel flying plates and all associated bolts to mount one subwoofer below another identical unit,

The S-15/S-18 flying plate sets can be used to build columns up to a maximum of four S-15 subwoofers.

Weight (per set, including fixings) 1kg / 2.2lbs

3.0 - Simulation

Ease Focus 3



For acoustic reasons it is advised that users familiarize themselves with Ease Focus 3 - this system provides the user with accurate simulations for setting up S-15 subwoofers.

Ease Focus 3 can be downloaded for free from the AFMG website at <http://focus.afmg.eu> and is currently available as a stand-alone application for Windows (XP or Higher) only. It can also be downloaded directly from the [EM Acoustics website](#) with all the current product files embedded.

Tutorials for Ease Focus 3 are available from with the application itself.

For training on the design and implementation of S-15 subwoofers including the specific use of Ease Focus 3, please contact your local distributor.

4.0 - Safety Considerations

General Considerations in use

Loudspeaker systems are potentially dangerous objects if used incorrectly. Please ensure that you read this section fully, and contact EM Acoustics or your local dealer should you be in any doubt over correct operation procedures.

Personal Injury

Never stand in the immediate vicinity of loudspeakers when in use at high level. Professional loudspeaker systems are capable of producing sound pressure levels which can cause permanent damage to human hearing. Levels in excess of 90dB can cause hearing damage if people are exposed to them over a long period of time, so care and attention must be used for both staff and audience members.

When deploying loudspeaker systems on the ground or when flown, please take careful note of the following important safety considerations:

- Only use accessories and flying hardware supplied or approved by EM Acoustics for flying or transporting loudspeaker systems. Pay close attention to specific instructions, especially those considering maximum load capabilities as detailed in the appropriate user manuals or on the legend labels on the accessories themselves.
- Ensure all additional accessories, fasteners and secondary safeties are of an appropriate size, working load limit and safety factor.
- All loudspeakers and accessories should be regularly inspected for signs of wear and tear, and any damaged parts should be replaced.
- All load bearing parts and assembly bolts on accessories should be regularly checked to ensure they are tight and not worn.

Ground Stacking

- Ensure that the floor or stage surface can withstand the weight of the system.
- Wherever possible, avoid high stacks and use ratchet straps to secure loudspeakers together. Please also remember that vibrations from subwoofer systems can shake other loudspeakers out of place, which may present a toppling hazard. The use of ratchet straps and non-slip material is recommended to prevent this.

Rigging and Suspension

Please see Chapter 5 for further information on the detailed rigging options for your loudspeaker system.

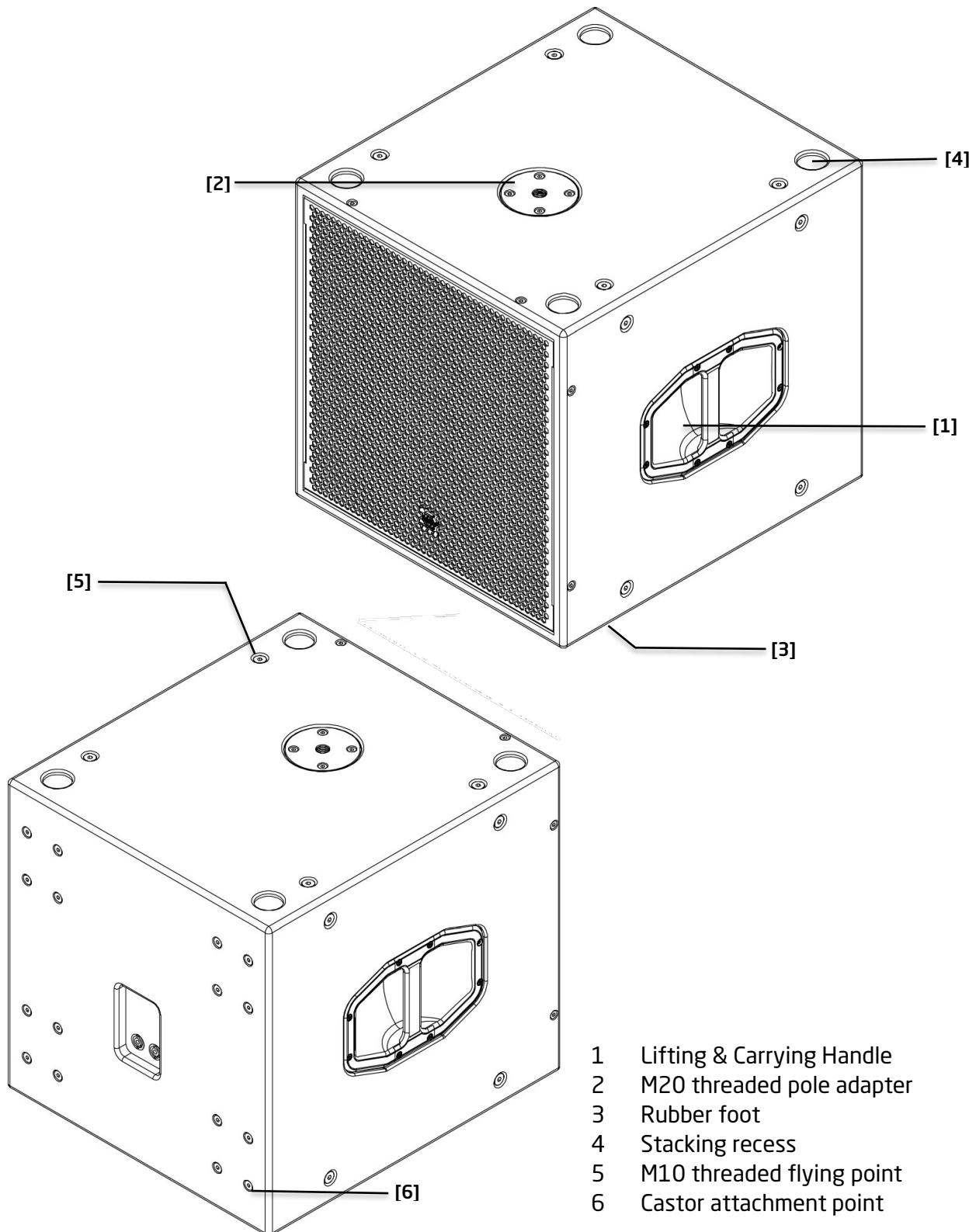
WARNING: The overhead suspension of loudspeakers is a very serious issue with potentially lethal consequences should anything go wrong. Rigging should only be carried out by experienced personnel following safe working practice. Should you be in any doubt whatsoever, please contact your local dealer who will be able to refer you to a suitable rigging company.

Material Damage from Magnetism

Loudspeakers produce a static magnetic field at all times - even when not in use. Certain devices are susceptible to external magnetism, and as such a safe distance should be maintained to prevent damage. It is recommended that a safe distance of 0.5m (1.5ft) is maintained from loudspeakers when stored, transported and in use, from devices such as computer hard drives, magnetic media, bank cards to remove the risk of corruption. Larger distances may be required for some older cathode ray tube displays.

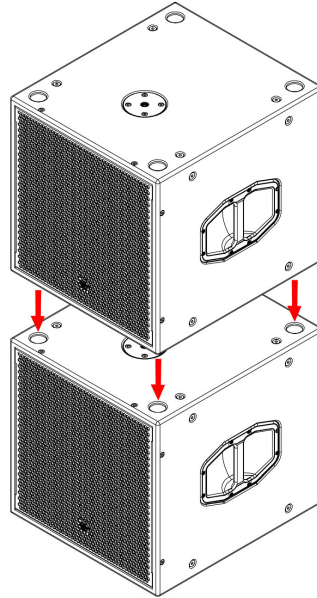
5.0 - Rigging Options

5.1 - S-15 Cabinet Hardware Overview



5.2 - Stacking S-15 subwoofers

The S-15 subwoofer has four rubber feet on the underneath, and matching recesses in the top face of the cabinet. When stacking S-15 subwoofers, this provides a neat and clear way of creating a tidy stack.

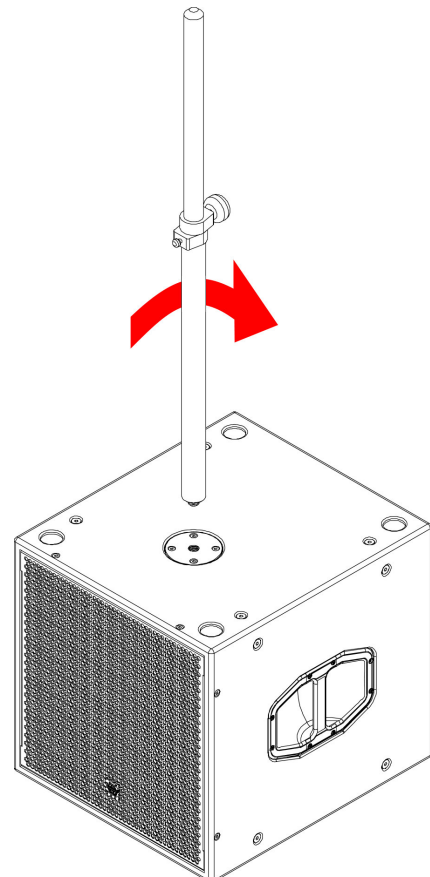


PLEASE BE AWARE THAT STACKS SHOULD ALWAYS BE PLACED ON LEVEL GROUND, AND STRAPS OR SIMILAR SHOULD BE USED TO SECURE THEM.

5.3 - Using the M20 threaded pole adapter

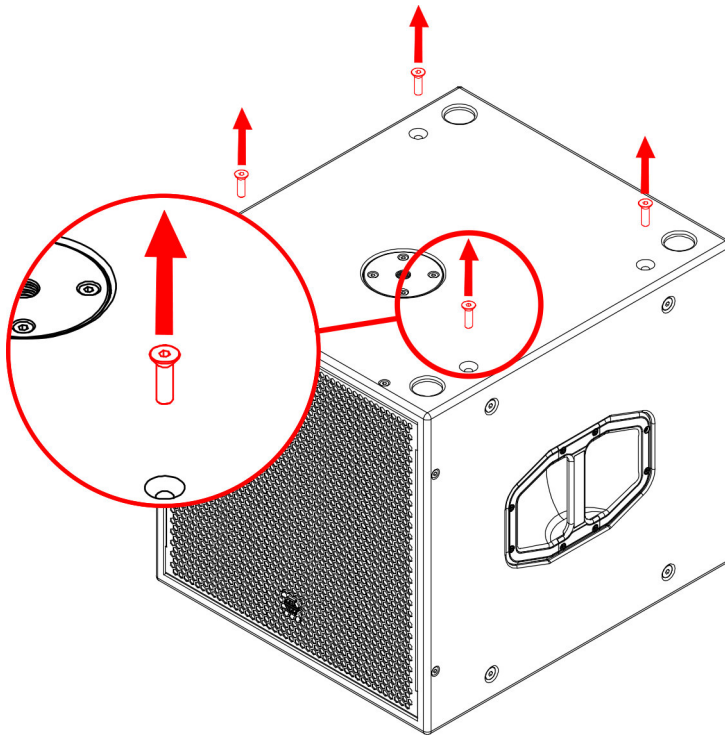
The S-15 has an M20 threaded adaptor in the top face, designed to receive M20 threaded pole fittings such as the EM Acoustics DP-01 or DP-02. To fit such a device, carefully start the threaded end in the fitting, and continue to turn clockwise until the flange of the pole is secure against the threaded adapter.

Ensure that the pole is screwed fully into the adapter before mounting any loudspeaker on to the pole.



5.4 - Flying the S-15 subwoofer - direct to subwoofer

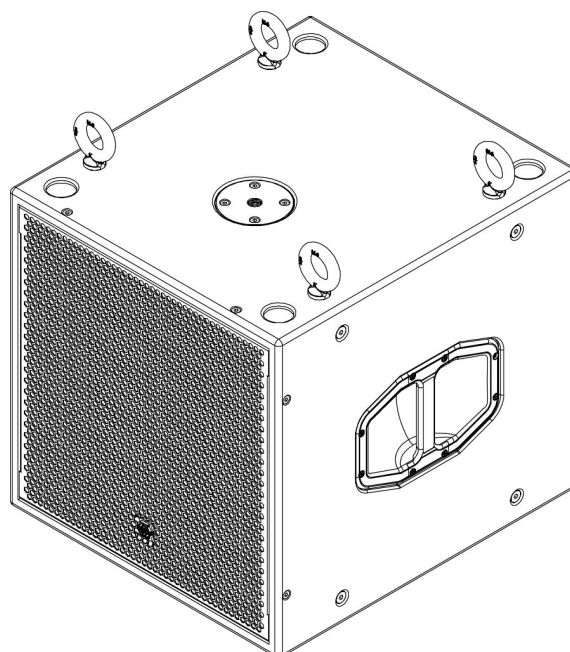
The S-15 has a total of 16 M10 threaded fittings internal to the cabinet woodwork - each one has an M10 countersunk socket bolt fitted in the factory. Various methods for installation can be used - from forged shoulder eyebolts and steel wires to hook clamps.



Using a 5mm Allen key, remove the relevant countersunk M10 bolts on the cabinet where you will be attaching your chosen suspension method.

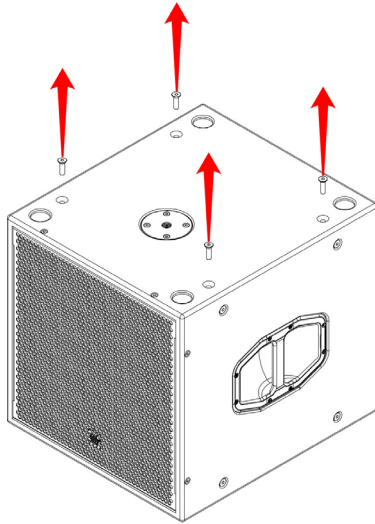
Any of the S-15 points can be used for suspension. Due to the location of points and the centre of gravity of the loudspeaker, it is strongly advised to use four points to suspend the loudspeaker as shown below to ensure the subwoofer sits straight.

Always ensure that a secondary safety is used when suspending any loudspeaker.



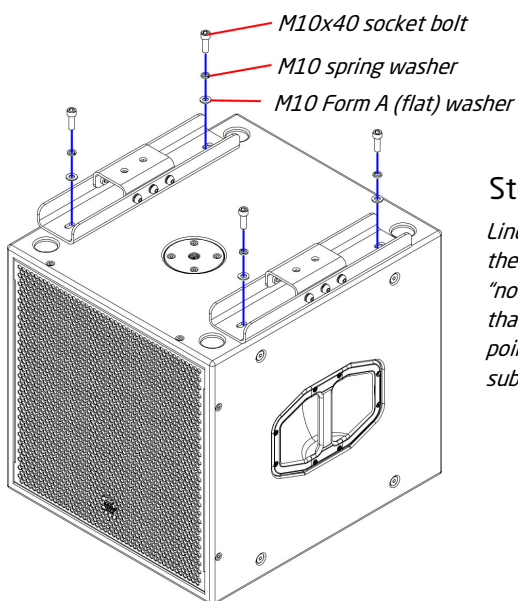
5.5 - Using the S-15/S-18 Flying Bar set - single subwoofers

The S-15/S-18 flying bar set can be used to mount S-15 subwoofers from a single beam, via a hook clamp or installation fixing on each beam.



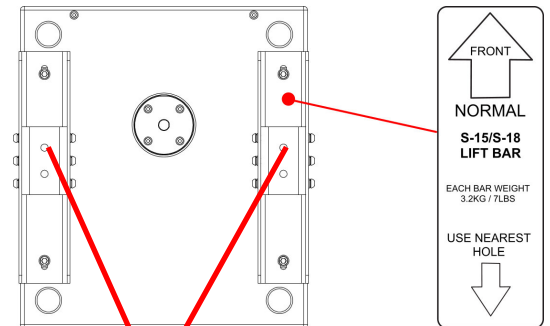
Step 1.

Using a 6mm Allen key, remove the four countersunk M10 bolts on the top of the cabinet.



Step 2.

Line up the two flying bars on the top of the subwoofer. For "normal" orientation, ensure that the "NORMAL" label is pointing toward the front of the subwoofer as indicated.

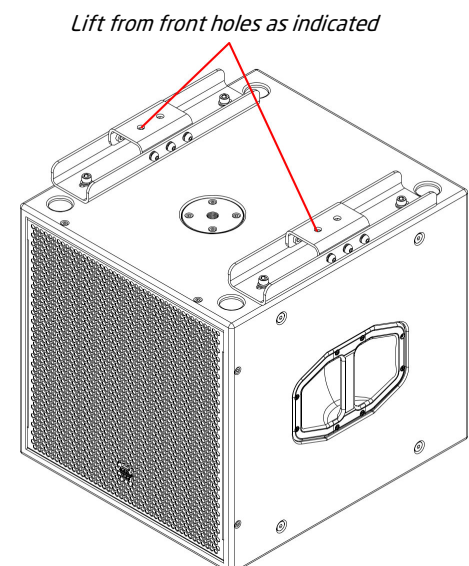


Lift from front holes as indicated

Step 3.

Tighten the bolts accordingly to ensure that the lifting beams are tight against the subwoofer.

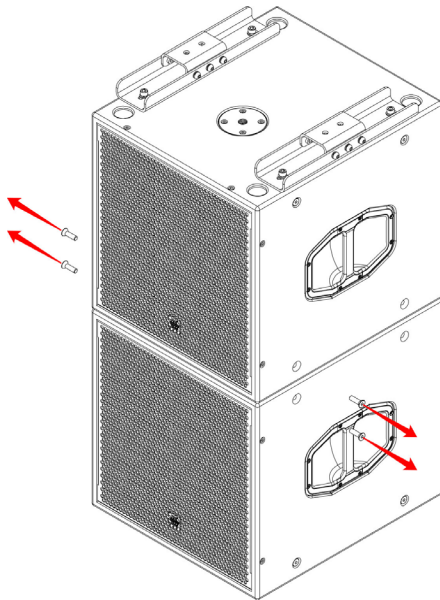
As indicated on the label, attach your lifting method to the holes closest to the front of the subwoofer - this will ensure that you are lifting over the Centre of Gravity and the subwoofer hangs straight.



Always ensure that a secondary safety is used when suspending any loudspeaker.

5.6 - Using the S-15/S-18 Flying Bar set - subwoofer columns

The S-15/S-18 flying bar set can be used to mount up to four S-15 subwoofers from a single beam in conjunction with the S-15/S-18 flying plate set.



Step 1.

Follow all the steps in section 5.5 to fit the pair of lifting bars to the first subwoofer in the column.

Stack the next subwoofer as illustrated.

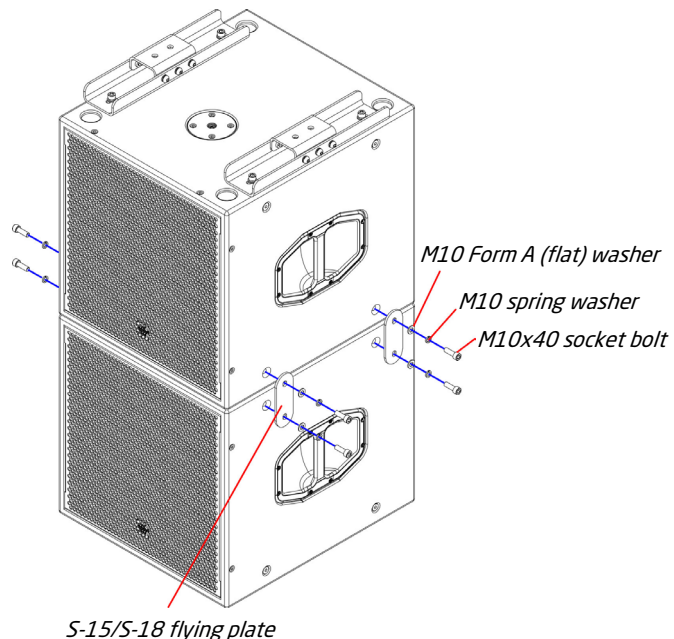
Using a 6mm Allen key, remove the four countersunk M10 bolts on the sides at the bottom of the cabinet (two per side).

Step 2.

One Flying Plate set is required for each subwoofer you wish to join to the column.

Line each plate up with the exposed holes in the sides, and secure in place with M10x40 socket cap machine screws, with form A and spring washers.

Ensure all bolts are tight before lifting.



Step 3.

Repeat the above process to add up to two more S-15 subwoofers - a maximum column of four subwoofers deep.

The column should be picked up/mounted from the front holes on the lifting beam as before.

Always ensure that a secondary safety is used when suspending any loudspeaker.

5.7 - Using the S-15/S-18 Flying Bar set - cardioid subwoofer columns

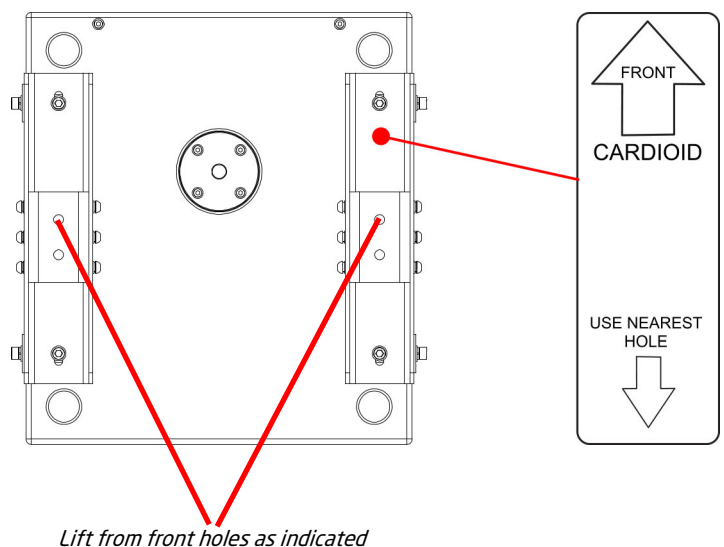
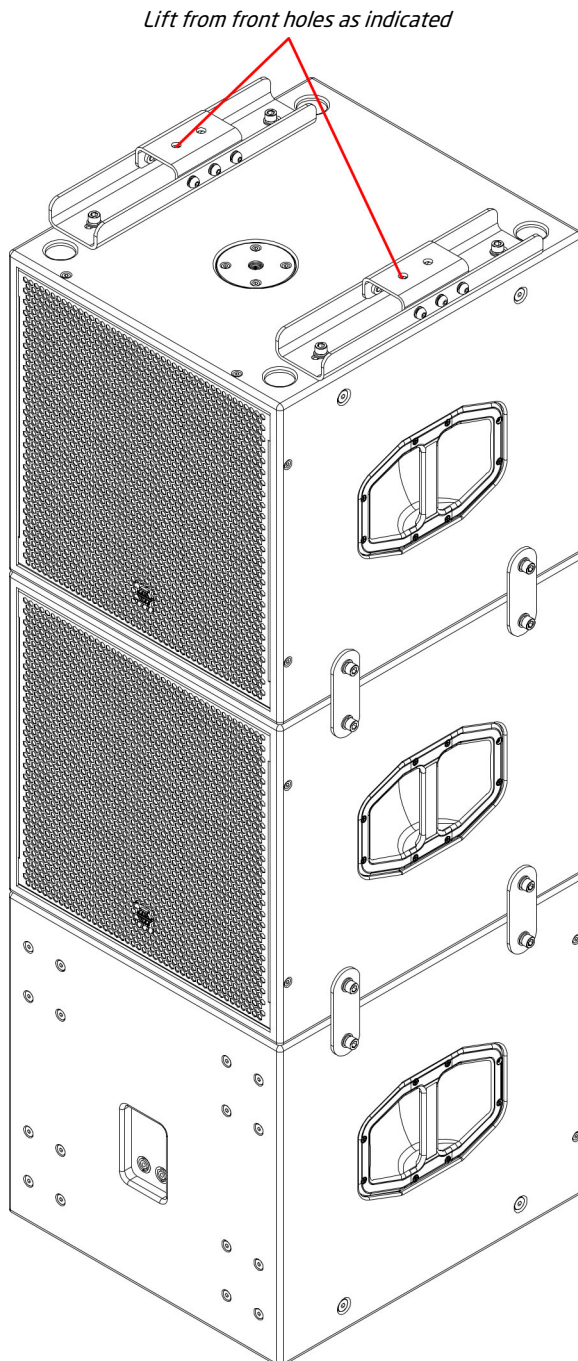
The S-15/S-18 flying bar set can be used to mount three S-15 subwoofers as a cardioid array from a single beam in conjunction with the S-15/S-18 flying plate set.

The procedure is exactly as building a normal column, with two exceptions:

- The bottom subwoofer should be reversed to generate the cardioid pattern.
- The lifting beams need also to be reversed, so the "CARDIOID" arrow points to the front of the subwoofer as illustrated.

As before, the pickup point closest to the front of the subwoofers should be used to ensure the array hangs straight.

Remember for cardioid arrays, these require two amplifier channels as the rear-firing subwoofer requires different processing to the front-firing pair.

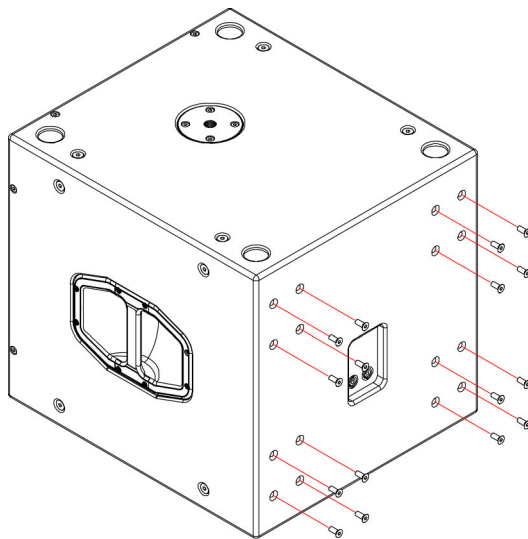


Always ensure that a secondary safety is used when suspending any loudspeaker.

5.8 - Fitting castors

The S-15 is supplied with a set of four tour-grade castors which can be fitted for ease of movement. The carton should contain:

- 4pcs 32 x 100mm heavy duty castor
- 17pcs M8 x 30 hex head set screw
- 17pcs M8 Form A (flat) washer
- 17pcs M8 spring washer

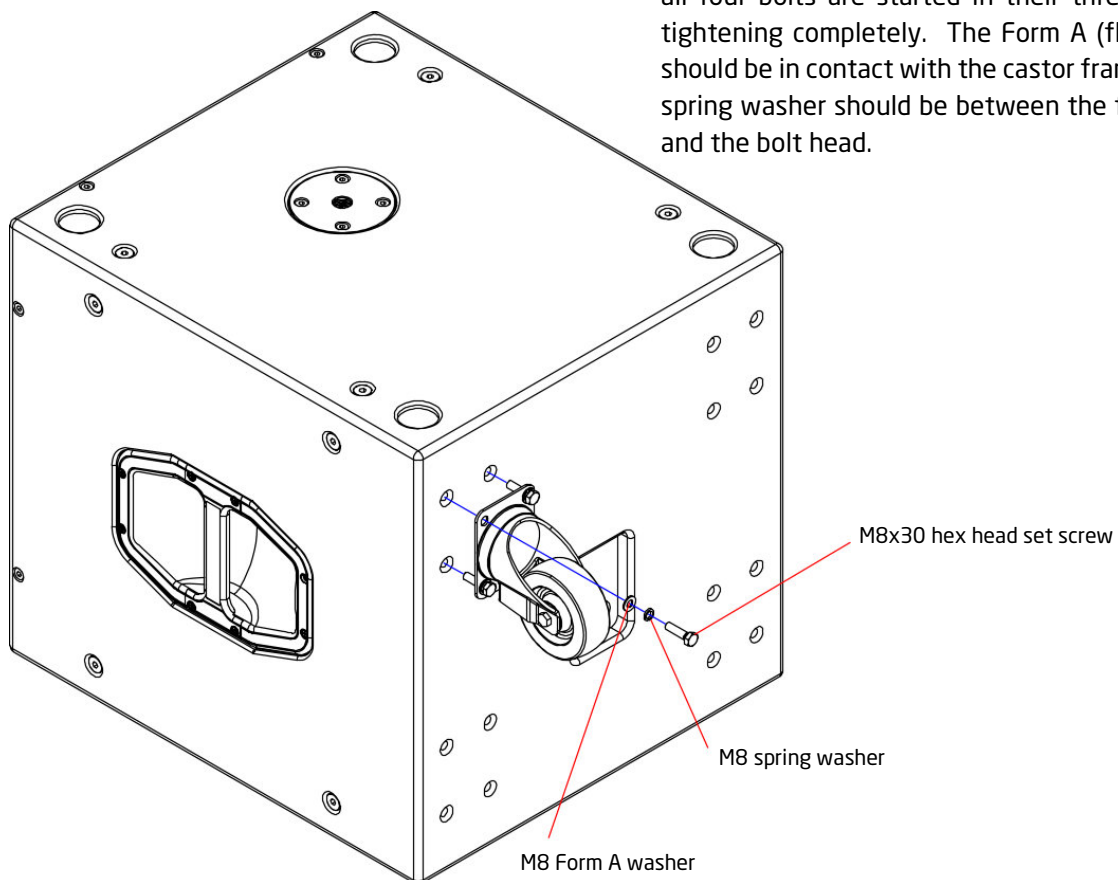


Step 1.

Using a 5mm Allen key, remove the 16 M8 x 20 countersunk socket machine screws on the rear panel. Ensure that all the threaded fittings inside the cabinet are still intact and the threads are clear before proceeding.

Step 2.

Fit each castor to the rear of the cabinet, ensuring all four bolts are started in their threads before tightening completely. The Form A (flat) washer should be in contact with the castor frame, and the spring washer should be between the flat washer and the bolt head.



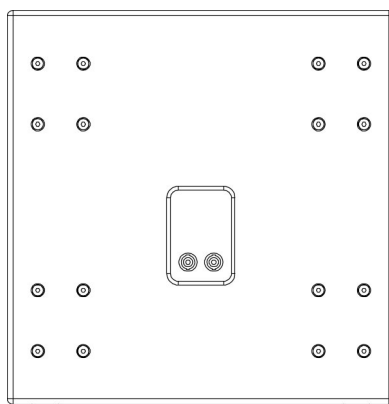
6.0 - Powering the System

The S-15 subwoofer can be powered from any amplifier & DSP combinations with the relevant high & low pass filter, and limiter settings. However, due to the self-contained nature of the package, the use of DQ or Di Series advanced system amplifiers is highly recommended. The use of DQ or DI Series amplifiers provides a neat and flexible system that will encompass all requirements for the system to function correctly, as well as providing user control for room EQ and system alignment.

6.1 - Amplifier and Processing Requirements

6.1.1 - Connections

The S-15 requires only a single amplifier channel. Inputs to the S-15 enclosure are on Neutrik SpeakON NL4 as illustrated below.



Two-core cable should be used for connecting S-15 subwoofers, and the connections are as follows:

SpeakON connection	1+	1-	2+	2-
Drive unit connection	LF +	LF -	Link Through	Link Through

6.1.2 - Connector Options

The S-15 is supplied as standard with two NL4 connectors. For more demanding environments, S-15 subwoofers can be supplied with other options by special order - please contact EM Acoustics to discuss your requirement.

6.1.3 - Amplifier Requirements

The S-15 is a very powerful subwoofer, making use of some of the most advanced drive units available in the industry today. It is good practice to ensure that your amplifier can deliver at least double the RMS power handling of the loudspeaker to ensure full headroom, and as such the amplifier requirement is:

Product	RMS Power Handling	Recommended Min. Amplifier Power
S-15	1000W @ 8 ohms	2000W @ 8 ohms

A loudspeaker is far more likely to be damaged by an under-powered amplifier working too hard, than an over-powered amplifier working well within its limits.

All of the DQ & Di Series advanced system amplifiers can be used to power the S-15.

The following table shows the maximum number of S-15 that can be connected per channel on the various different amplifiers:

Amplifier	Recommended S-15/channel (for full headroom)	Max S-15 per channel (*at reduced max SPL)
DQ6	1	1
DQ10	1	2*
DQ20	3	4*
Di06	Not recommended	Not recommended
Di10	Not recommended	1*
Di20	1	2*

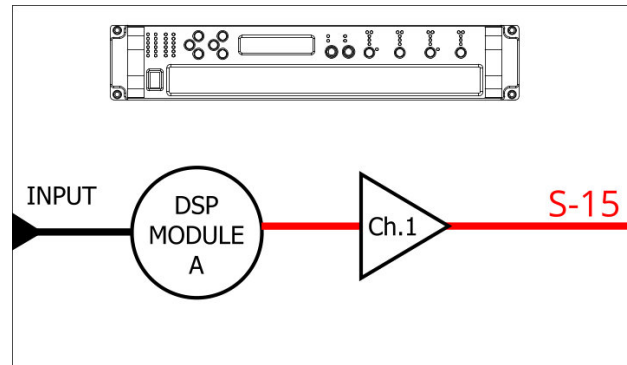
6.1.4 - Processing Requirements

The S-15 requires active high and low pass filters, and appropriate limiter settings. If not using DQ or Di Series amplifiers, or the DSC48 Digital System Controller, then a suitable DSP system must be used in conjunction with your S-15 to prevent damage to the subwoofer. Check the EM Acoustics website for the most up-to-date DSP settings for the S-15.

6.2 - Presets and Settings

6.2.1 - Standard S-15 Preset

When used with a DQ or DI Series amplifier S-15 subwoofers require only a single amplifier channel, and as such the preset recalled will only require one output from your system amplifier.



6.2.2 - Geometric Delay

Appropriate delay will need to be applied to account for physical location differences between different elements of your system - for example time-aligning subwoofers to the main system. The use of SMAART or similar can make this task a great deal simpler and faster.

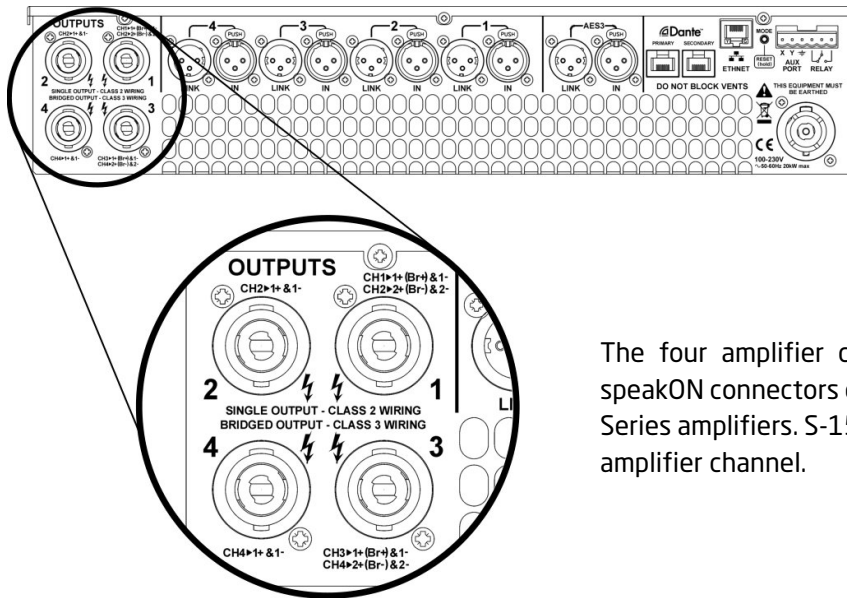
6.2.3 - Applying EQ

The presets are intended to be a starting point for your system and will almost certainly require tuning on-site dependent on room characteristics, the rest of your system design and the system voicing you are aiming for. The S-15 is designed with a significant amount of system headroom, so applying EQ is perfectly acceptable.

6.3 - Use with the DQ & Di Series Advanced System Amplifiers

The S-15 will perform best when using DQ or Di Series advanced system amplifiers, as not only are they state-of-the-art amplifiers, but the onboard DSP provides appropriate high/low pass filter settings and limiters to get the best from your subwoofers. Please refer to the relevant amplifier User Manual for detailed information on using the amplifiers and the System Engineer software.

6.3.1 - Connections



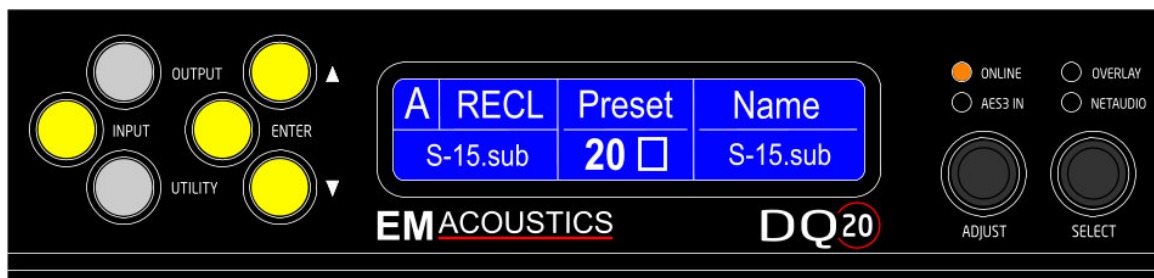
The four amplifier channels appear on four speakON connectors on the rear of the DQ & Di Series amplifiers. S-15 subwoofers require one amplifier channel.

6.3.2 - Preset Recall

The S-15 preset is pre-installed on the EM Acoustics' amplifiers, and as such can be used following the normal preset recall procedure. The presets available are:

S-15.Sub Standard S-15 subwoofer preset

As mentioned above, these presets are intended to be a starting point and additional work may be required depending on the venue, the style of content and the end result you are looking for.



6.4 - System Connectivity

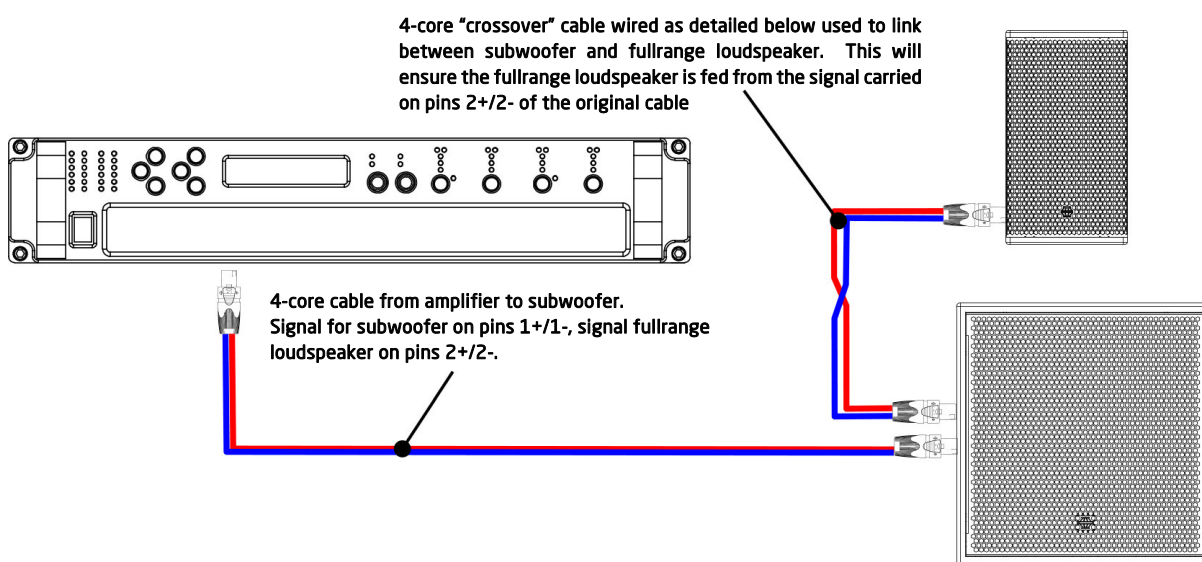
6.4.1 - Cable Length and Specification

All cables add to the system impedance, and as such careful selection is required depending on your amplifier setup and overall system impedance. Cables with a cross sectional area of less than 2.5mm² should not be used. Recommended maximum cable lengths are given below:

Conductor Area	Maximum Recommended Cable Length		
	2 ohms	4 ohms	8 ohms
2.5mm ² (14 AWG)	15m	30m	60m
4.0mm ² (12 AWG)	20m	40m	80m
6.0mm ² (10 AWG)	30m	60m	120m

6.4.2 - Crossover Cable Use

The use of a pin-swap or "crossover" cable can allow for neater cable solutions when sending different amplifier signals to the same location. Because pins 2+/2- are linked through inside all EM Acoustics loudspeakers, using a 4-core cable to one loudspeaker (carrying two different signals) allows a crossover cable to be used to link out of the first loudspeaker into another, thereby feeding it from a separate signal.



Crossover cable specifications

Connector A Pin	Connector B Pin
1+	2+
1-	2-
2+	1+
2-	1-

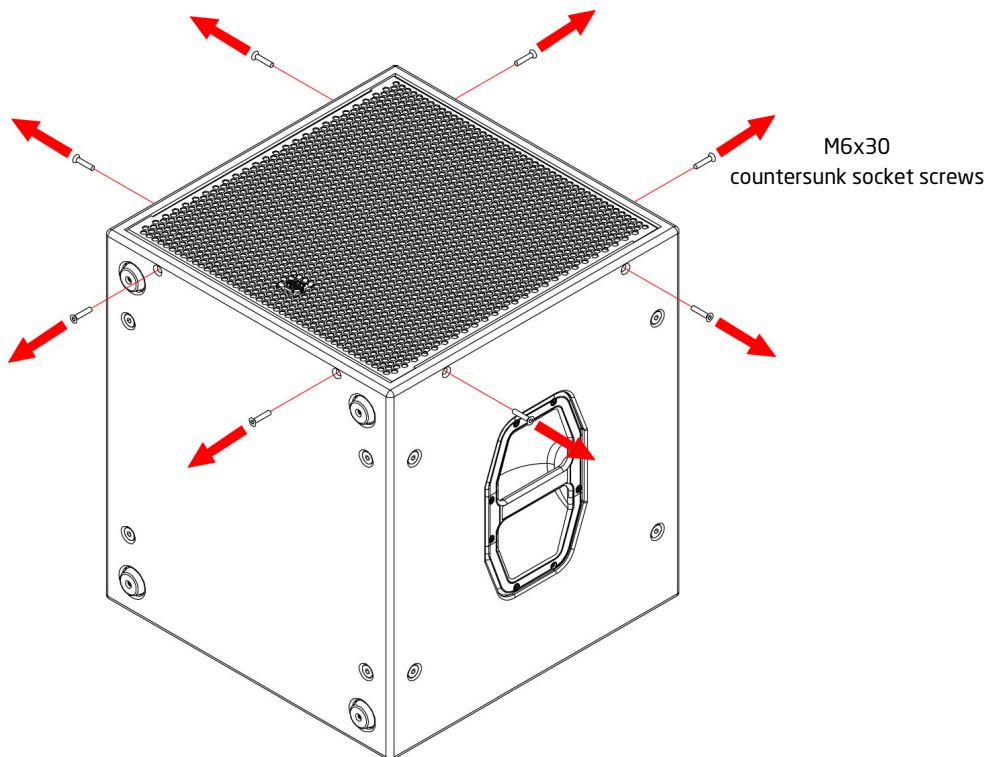
7.0 - Servicing Information

All S-15 components can be removed for service purposes if required, using the minimum of tools.

7.1 - S-15: Removing the grille

TOOLS REQUIRED: 4mm Allen key

1. Lie the enclosure on its' back and remove the eight M6x30 countersunk socket screws using a 4mm Allen key, and then lift the grille clear of the cabinet.

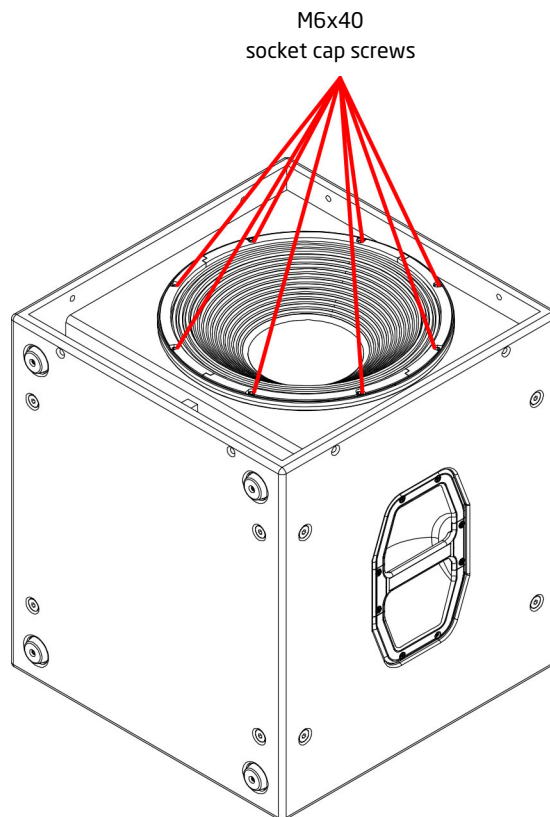


2. To replace the grille, position the grille on the front of the S-15 (logo badge should be in the centre at the bottom of the grille when sat on its feet) and ensure the threaded fittings on the grille are lined up with the mounting holes. Replace each of the eight M6x30 countersunk bolts and ensure all machine screws are started in their threads before beginning to tighten. Ensure they are all tightened evenly so that the grille sits straight and flat and does not rattle.

7.2 - S-15: Removing the drive unit

TOOLS REQUIRED: 5mm Allen key

1. Complete step 7.1 above to remove the grille.
2. Using a 5mm Allen key, remove the eight M6x40 socket cap screws that secure the drive unit. Ensure that you remove the spring washers from the recesses as well as the machine screws.



3. Lift the drive unit clear of the mounting hole and disconnect the two cables - note the polarity for reconnection (red to positive, black to negative).
4. To replace the drive unit, fit a fresh 15" gasket around the driver opening, ensuring that the mounting holes line up. Reconnect the cables to the drive unit (note the red cable goes to the positive (red) terminal, and the black cable goes to the negative (black) terminal on the drive unit) and then sit the drive unit into its mounting location, ensuring that the mounting holes line up.
5. Replace the M6x40 socket cap machine screws with their spring washers and ensure all machine screws are started in their threads before tightening. Tighten opposing bolts, working around the drive unit until all bolts are appropriately tightened.
6. Replace the grille as described above.

Appendix A - Technical Specifications

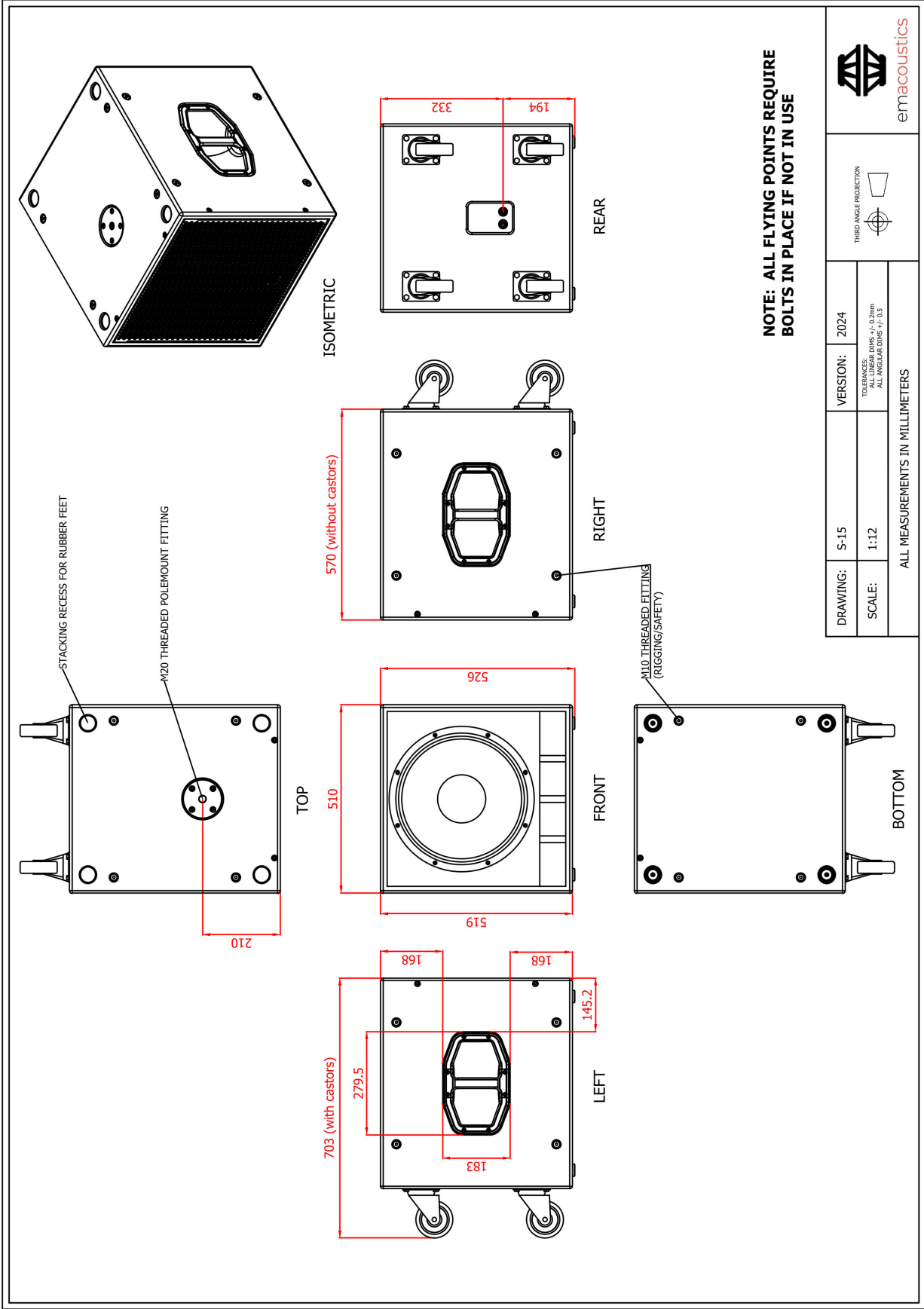
S-15 compact reflex subwoofer

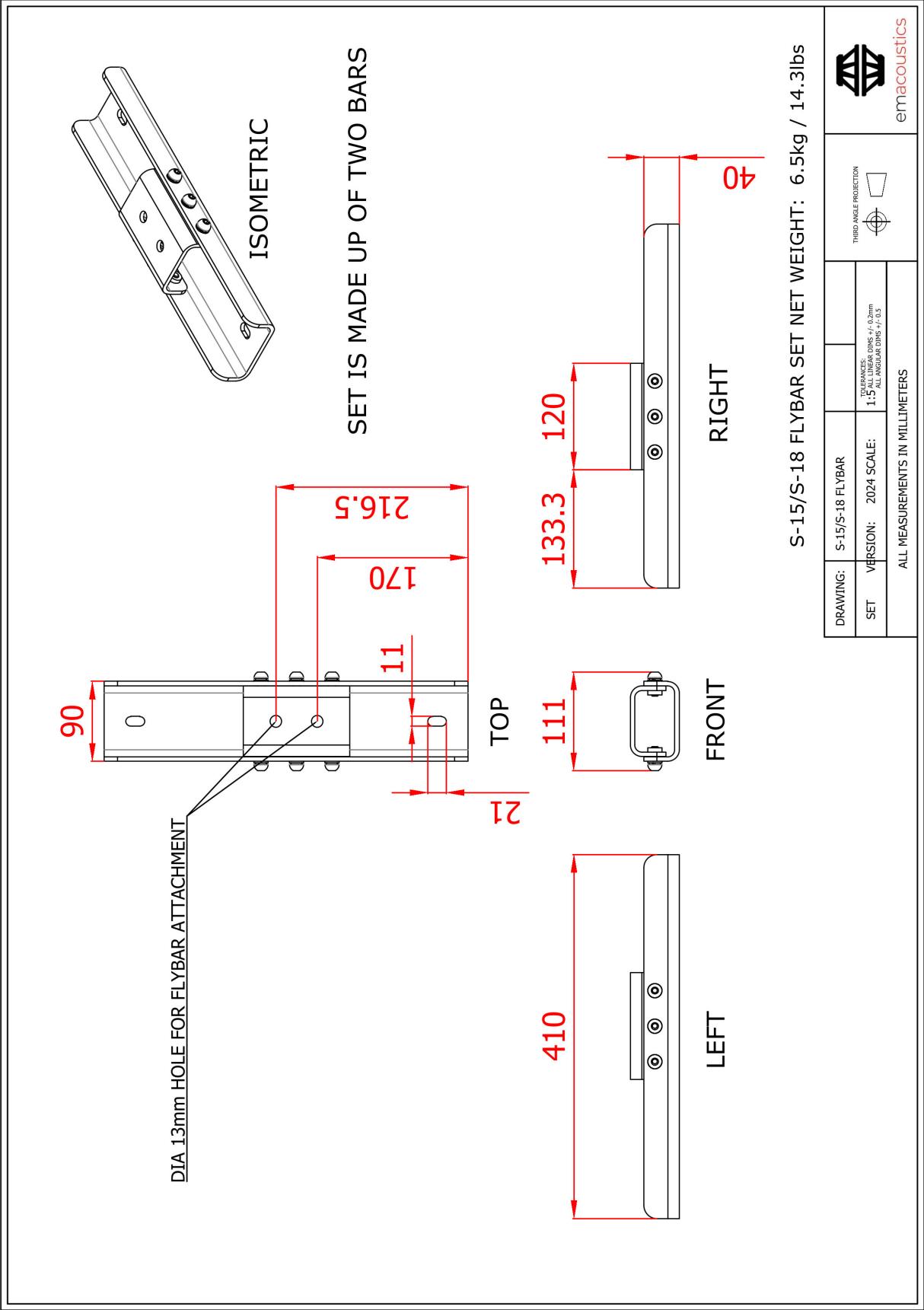
Dimensions (HxWxD):	519 x 510 x 570mm (20.4" x 20.1" x 22.4")		
Net/Shipping Weight:	36kg/39kg (79.2/85.5lbs)		
Frequency Response (+/- 3dB) ¹ :	40Hz - 150Hz		
Dispersion ³ :	Omnidirectional		
Drive Units:	1 x 4" (102mm) voice coil 15" (381mm) LF drive unit		
Power Handling:	LF: 1000W RMS, 2000W program		
Maximum SPL:	128dB continuous, 134dB peak		
Nominal Impedance:	8 ohms		
Crossover:	External active		
Enclosures/channel (full SPL):	DQ6:	1	Di06: Not recommended
	DQ10:	1	Di10: Not recommended
	DQ20:	3	Di20: 1
Connectors:	2 x Neutrik SpeakON™ NL4		
Enclosure:	18mm (3/4") multi-laminate birch plywood, rebated, screwed and glued. Finished in impact and weather-resistant textured polyurethane		
Rigging & Hardware:	16 x M10 threaded rigging points. M20 threaded pole adapter. Two flush handles, rubber feet & stacking recesses. Tour-grade castors included.		
Grille:	Hex punched stainless steel backed with acoustically transparent mesh		
Options:	Colours/extended weather protection		
Accessories:	TC-S15 padded transit cover		
	S-15/18 Flybar Pair		
	S-15-18 Fly plate set		

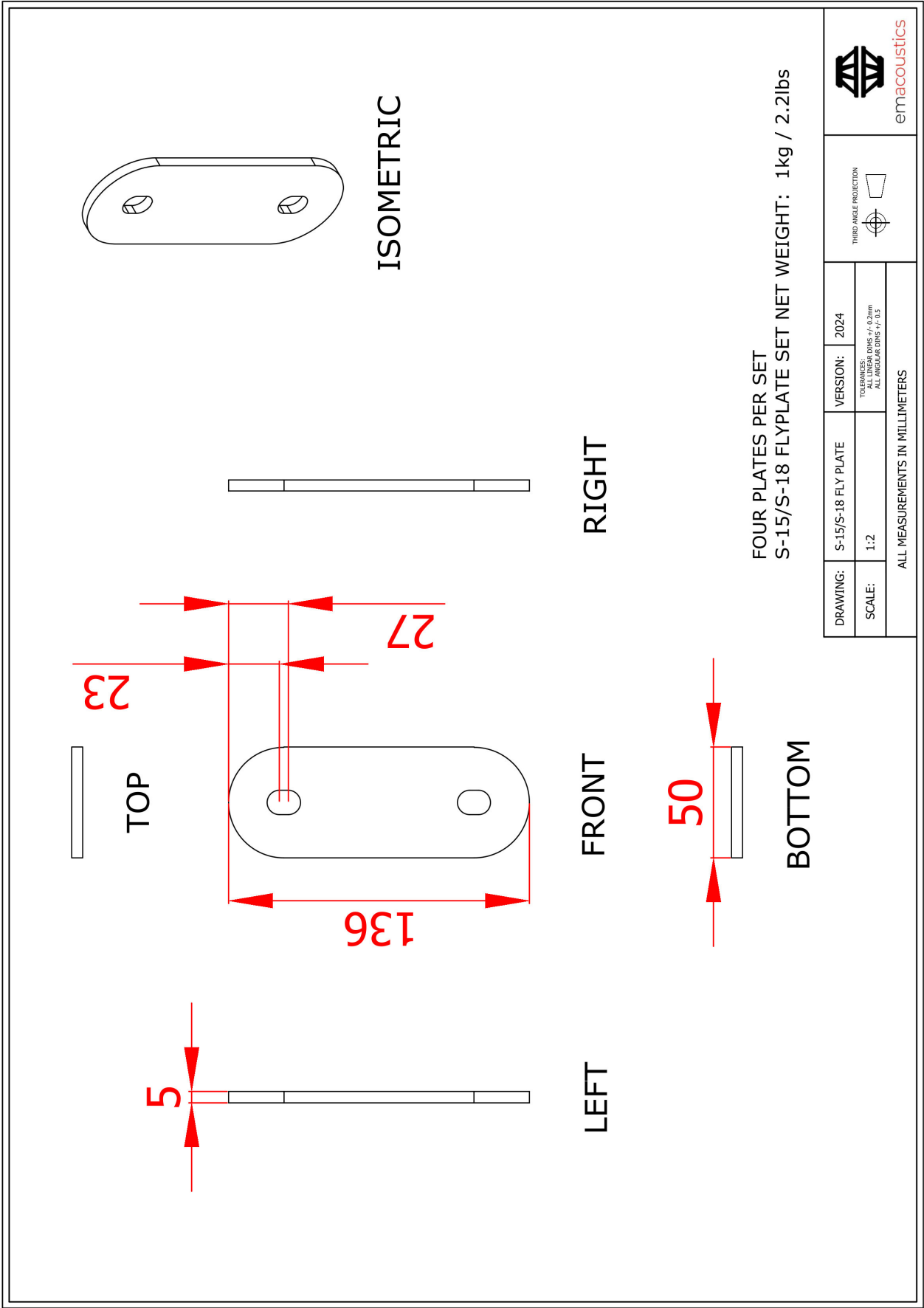
Notes on measurement conditions:

¹Measured on-axis at 2m in an anechoic environment and referenced to 1m. ²Measured in half-space at 2m with 4W sine wave input and referenced to 1m. ³Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. ⁴Calculated and verified by subjective listening test of familiar program material.

Appendix B - Technical Drawings







Appendix C - Spare Parts List

Order Code	Description
01A031	DU-1508 replacement 8 ohm 15" LF drive unit
04A070	RFG-S15 replacement grille/fabric for S-15

Appendix D - Warranty Information

Limited Warranty

This EM Acoustics loudspeaker product is warranted to the original end-user purchaser and all subsequent owners for a period of **five (5) years** from the original date of purchase.

Warranty Coverage

This warranty covers defects in materials and workmanship. It does not include:

- Damage or failure caused by accident, misuse, neglect, abuse or modification by any person other than an authorised EM Acoustics representative.
- Damage or failure caused by operating the loudspeaker product contrary to the instructions contained within this manual.
- Damage caused during shipment.
- Claims based on any misrepresentation by the seller.
- Products which contain anything other than the original components (or EM Acoustics factory supplied spare parts).
- Products on which the serial number has been removed, altered or defaced.

Returning your EM Acoustics loudspeaker

Should your EM Acoustics loudspeaker develop a fault, please return it (freight prepaid) in its original packaging, along with proof of purchase to your local dealer or to:

EM Acoustics (Returns Department), Building 19.11, Dunsfold Park, Cranleigh, Surrey, GU6 8TB, UK

including a description of the suspected fault. Serial numbers must be quoted in all correspondence relating to the claim. EM Acoustics or its representatives are in no way liable for any loss or damage in transit, and hence it is recommended that the sender insure the shipment. EM Acoustics will pay for return freight should the repair be covered under warranty.

EM Acoustics' liability is to the replacement or repair (at our discretion) of any defective components, and as such are not liable for any incidental and consequential damages including (without limitation) injury to persons, damage to property or loss of use.

This warranty is exclusive and no other warranty is expressed or implied. This warranty is also in addition to - and in no way detracts from - your statutory rights as a consumer.