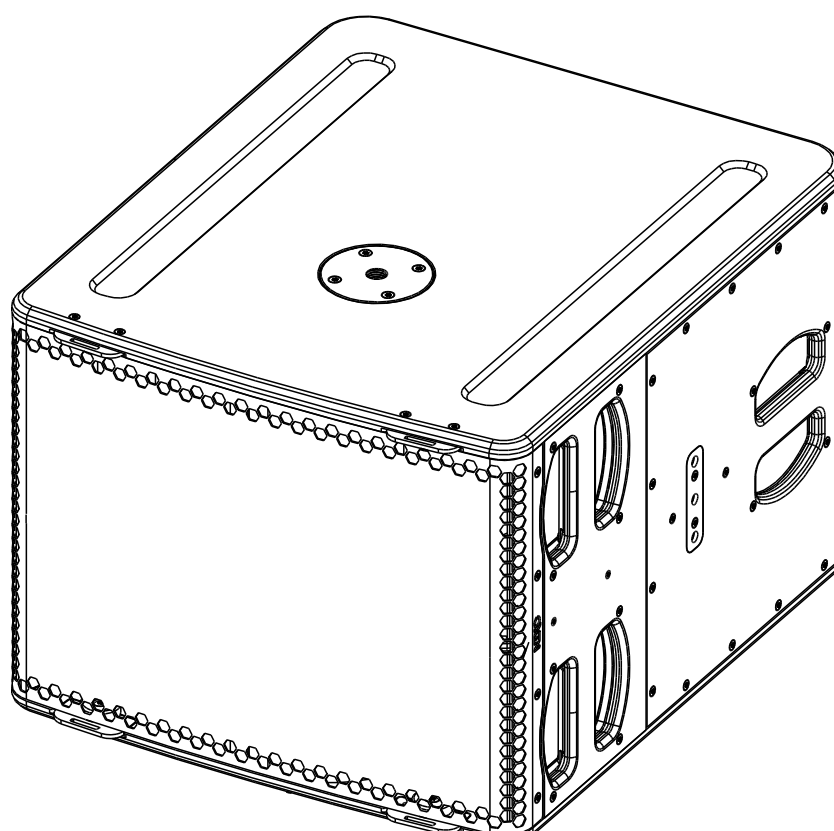


## L15



User manual



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### EU Conformity declaration

We, **NEXO SA**  
**ZA DU PRE DE LA DAME JEANNE**  
**60128 PLAILLY – France**

Declare under our sole responsibility that the product **Loudspeaker**

Type **L15**

Serial number **On the product**

Is in conformity with the provisions of the following directive **2014/35/UE (Low Voltage Directive)**  
including all applicable amendments:

Applied rules and standards: **EN 13155, EN 62368**

Plailly, June 12<sup>th</sup>, 2019 **Joseph CARCOPINO, R&D Director**



## WARNINGS

### PRECAUTIONS

Do not open the speaker, do not try to disassemble it neither to modify it in any way. The system doesn't include any user-repairable part.

If the system seems to be malfunctioning or damaged, stop using it at once and have it repaired by a NEXO qualified technician.

Do not expose the system directly to the sun or to the rain, do not immerse it into fluids, do not place objects filled with liquid on the system. If a liquid gets into the system, please have it inspected by a NEXO qualified technician.

The connection should be performed by qualified technician, by ensuring that power is off.

Operating temperature with temperate climate: 0°C to +40°C (+32°F to +104°); -20°C à +60°C (-4°F to +140°F) for storage.

### SAFETY INFORMATION

Read this manual before using the speaker.

Keep this manual available for further reference.

Observe all warnings and cautions.

Please check the NEXO Web site [nexo-sa.com](http://nexo-sa.com) to get the most up-to-date version of this manual.

Ensure you are aware of the safety rules applying to rigging, stacking or installing on tripod or speaker stand. Failure to observe these rules may expose persons to potential wounds or even death.

Only use the system with accessories specified by NEXO.

Please always consult a NEXO-accredited technician if the installation needs architectural works and observe following precautions:

#### Mounting Precautions:

- Please select screws and mounting location supporting 4 times the system weight.
- Do not expose the system to excessive dust, vibrations, to extreme cold or hot temperatures, to reduce the risk of damaging components.
- Do not place the system in an unstable position: it could fall accidentally.
- If the system is used on a tripod, please ensure the tripod's specifications are adapted and that its height does not exceed 1.40m/55". Do not move the tripod with the system in position.

#### Connection and Powering Precautions:

- Unplug connected cables before moving the system.
- Power off the system before connecting the system.
- When switching on the installation, the amplifier must be powered last; when switching the installation off, shut off the amplifier first.
- If you work by cold temperatures, progressively raise the level to nominal value during the first minutes of use, to allow the system components to stabilize.

Please check regularly the system condition.

### HIGH SOUND PRESSURE LEVELS

Exposure to very high sound pressure levels may cause permanent hearing losses. Degrees of hearing losses may be different from one person to another, but almost everybody will be affected if exposed to high sound pressure levels during a long period of time. The OSHA (Occupational Safety and Health Administration) American Agency specified the following maximal exposures:

| Number of Hours | Sound Pressure Level (dBA),<br>Slow Response |
|-----------------|--|
| 8               | 90   |
| 6               | 92   |
| 4               | 95   |
| 3               | 97   |
| 2               | 100  |
| 1 ½             | 102  |
| 1               | 105  |
| ½               | 110  |
| ¼ or less       | 115  |

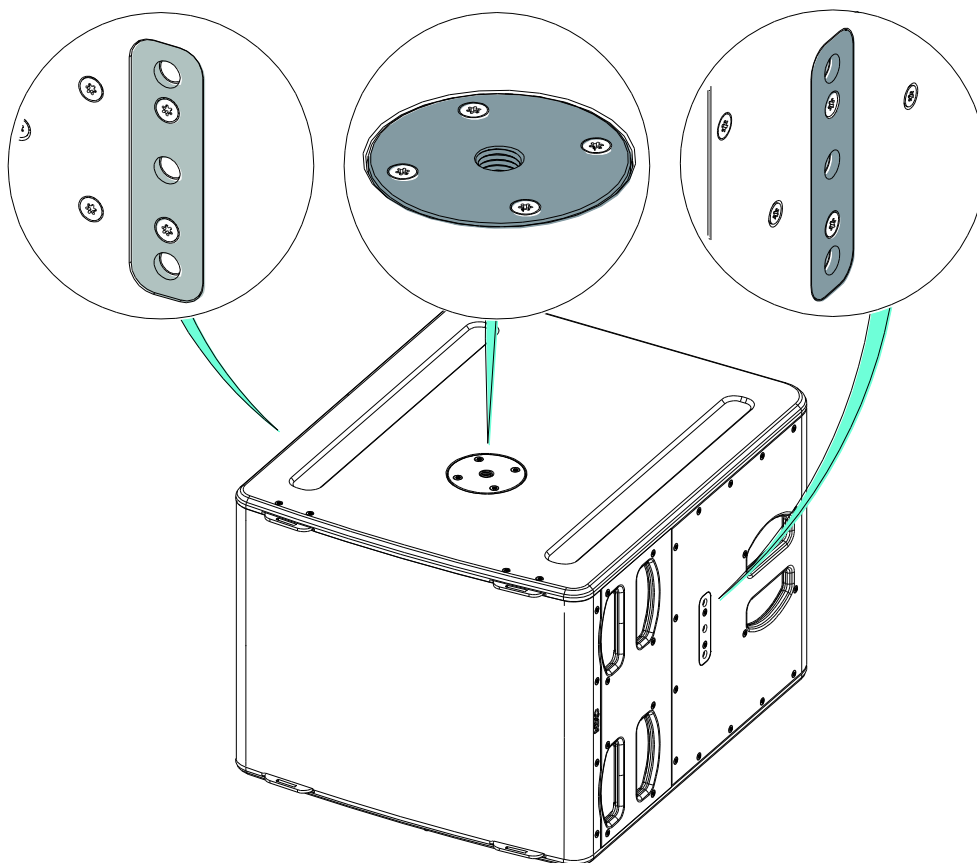
### WASTE OF ELECTRIC OR ELECTRONIC EQUIPMENT



This symbol on the product or its packaging indicates that this product must not be treated as household waste. Instead, it is your responsibility to hand it over to a designated collection point for the recycling of waste electrical and electronic equipment. By ensuring your waste equipment is recycled, you will help prevent potential negative consequences for the environment and human health, which could appear if this product was not recycled. Recycling helps spare natural resources. For more information about the recycling of this product, please contact your local city office, your household waste disposal service or your reseller.

## EQUIPMENT

3 locations for hanging, 1 on the top for speaker stand and on both side.



### Assembly on distance rod or speaker stand

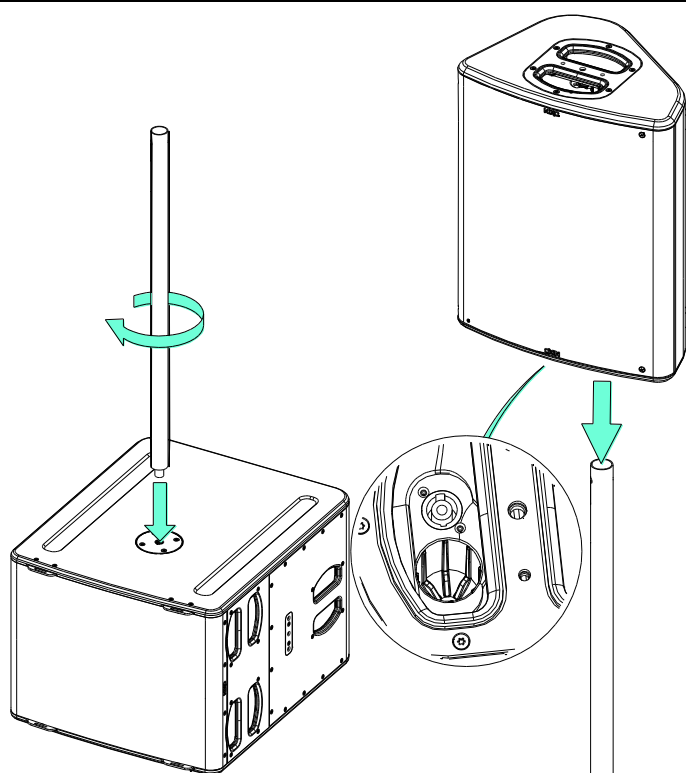
Place distance rod on the connector plate (M20) of the Sub.  
Place the main cabinet on the distance rod / monitor stand  
(diameter of 35mm),

#### IMPORTANT

Speaker stand must be rated for the weight of the main cabinet.  
Speaker stand must always be installed on a horizontal surface.  
Stand height and footprint must be defined to prevent assembly  
from collapsing.

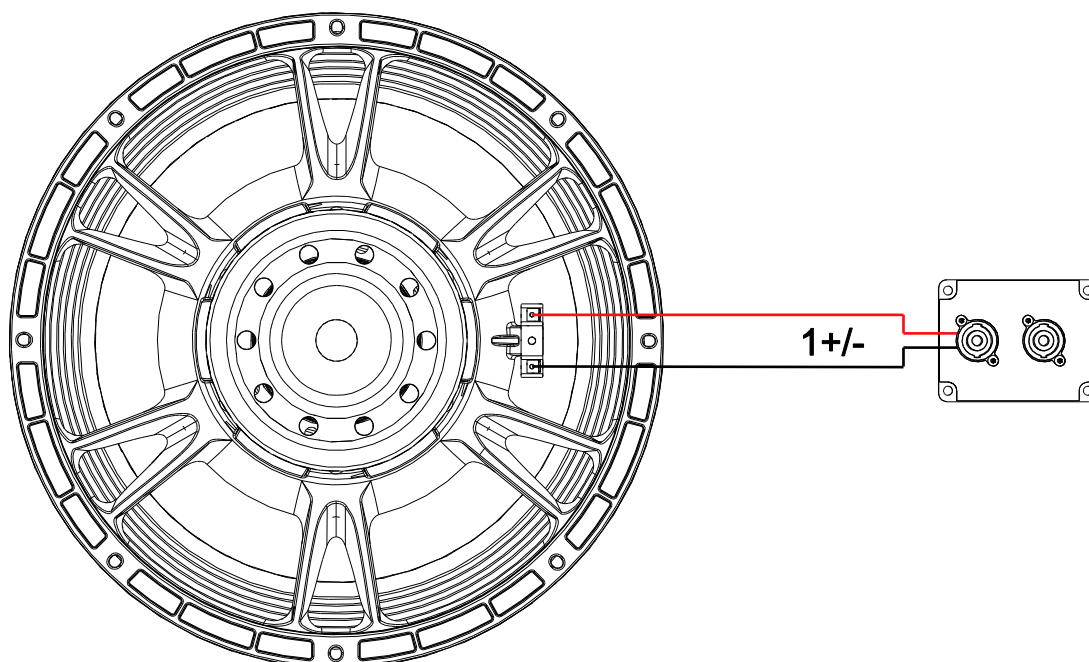
Ensure that audience is not allowed within a safety area which  
radius is equal or higher than assembly height.

Test steadiness of the assembly by pushing in all directions.



## DESCRIPTION

- The L15 is a compact and powerful subwoofer, ideally complementing P12 speakers
- The L15 subwoofer is equipped with two Speakon NL4 connectors, with parallel-wired pins,
- L15 uses the 1+/1- pins, (2+/2- through).



### → Amplification

- The L15 subwoofer must be used with a NEXO processor to handle EQ, phase alignment, crossover and excursion/thermal protection for the system loudspeaker.
- The following table shows the number of P12 speakers and L15 subwoofers usable with each solution.

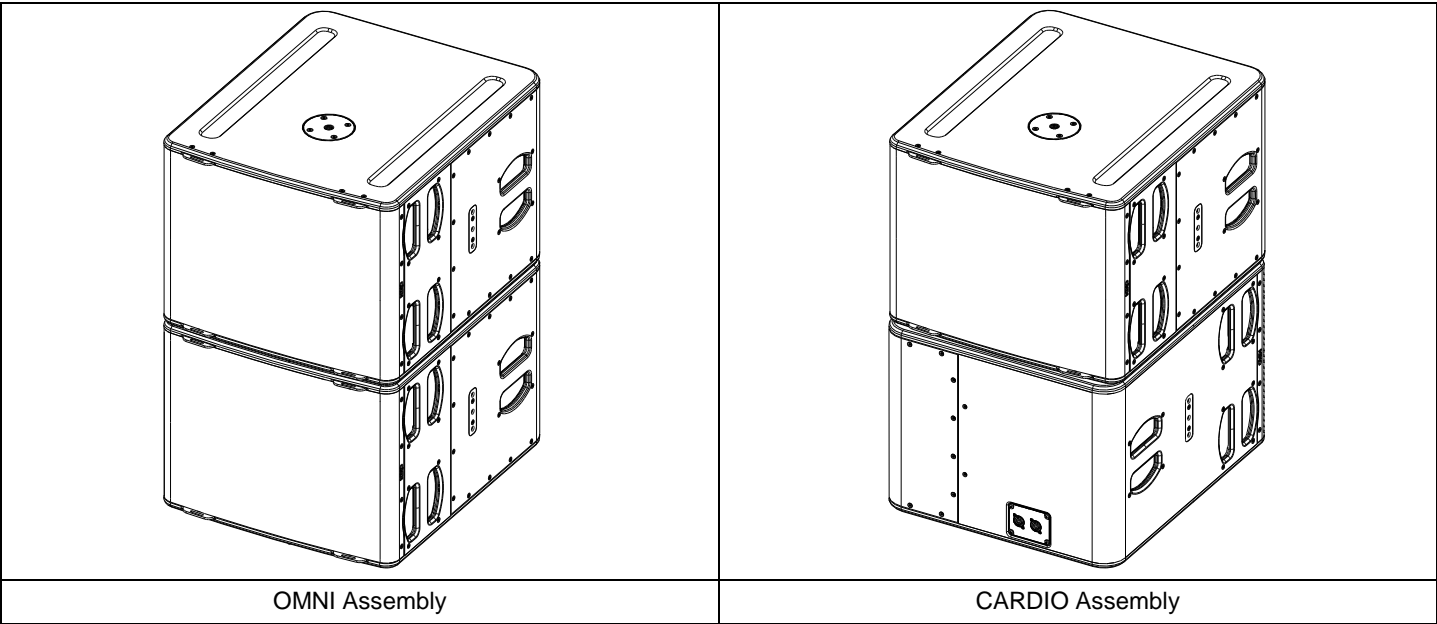
|     | NXAMP4X1 | NXAMP4X1(BRIDGED)   | NXAMP4X2            | NXAMP4X4            |
|-----|----------|---------------------|---------------------|---------------------|
| P12 | -        | Up to 2 per channel | Up to 2 per channel | Up to 4 per channel |
| L15 | -        | 1 per channel       | Up to 2 per channel | Up to 2 per channel |

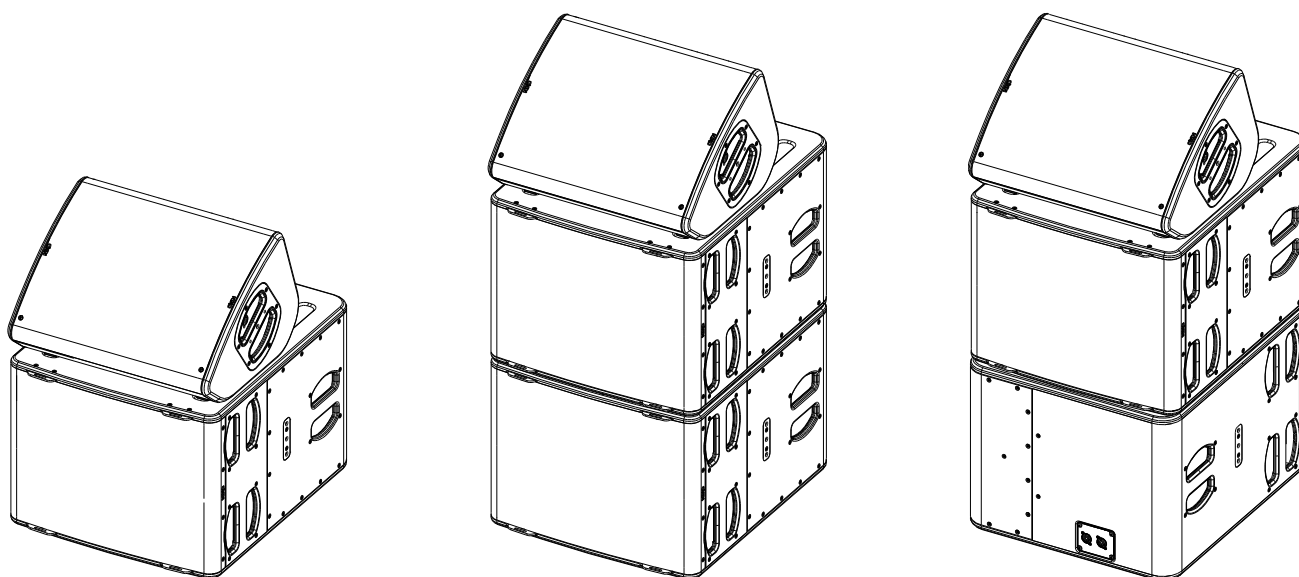
PRESET

Please consult [nexo-sa.com](http://nexo-sa.com) for NEXO TD Controllers firmware information.

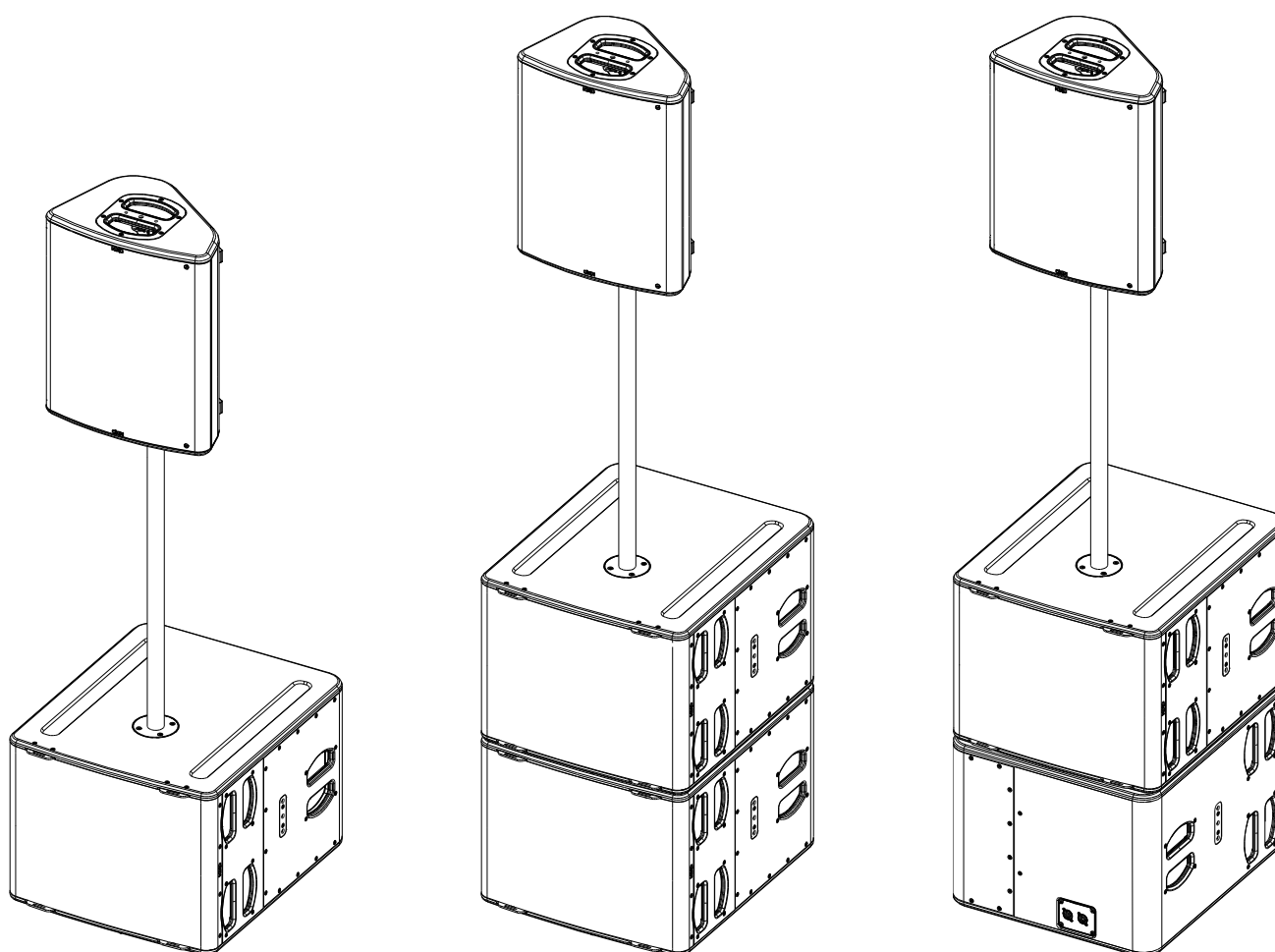
There are two setting range for surrounding speaker L15:

- “OMNI” Setups; For a traditional use of the subwoofer in omnidirectional radiation (require at least one subwoofer and a channel of amplifier).
  - Omnidirectional Main setup, with low-pass at 85 or 120 Hz.
  - Omnidirectional Monitor setup, with low-pass at 85 or 120 Hz.
- “CARDIO” Setups; For a directional use (cardioid) of subwoofers (require at least two subwoofers and two channels of amplifier).
  - Cardioid back and front setups, with low-pass at 85 or 120 Hz.
    - Setup « FR » (Front) for the subwoofer pointed at the audience.
    - Setup « BA » (Back) for the subwoofer turned around.
  - The ideal ratio for a directional use is 2x L15 in CARDIO FRONT mode on top of 1x Reversed L15 in CARDIO BACK mode. From 1:1 to 3:1 ratio can be used.



**With P12 in stage monitor**

Stage monitor applications with Subs (OMNI or CARDIO modes)

**With P12 in front of house**

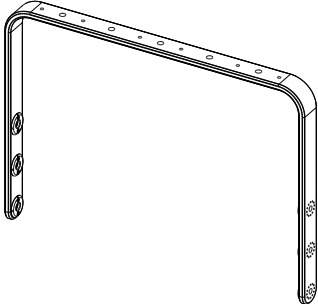
Front of house applications with Subs (OMNI or CARDIO modes)

ACCESSORIES

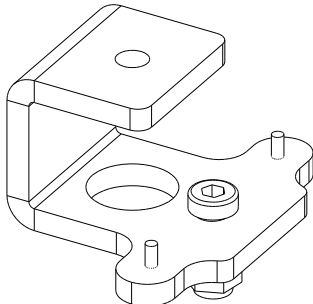
WARNINGS

All L15 accessories are specifically rated in agreement with structural computations.  
Never use other accessories – including push-pins – when assembling L15 cabinets than the ones provided by NEXO: NEXO will decline responsibility over the entire L15 accessory range if any component is purchased from different supplier.  
All GEOM12 accessories have been designed so that cabinet are arrayed vertically.  
**PROHIBITED: L15 below L15 or P12 below L15 without dedicated accessory**

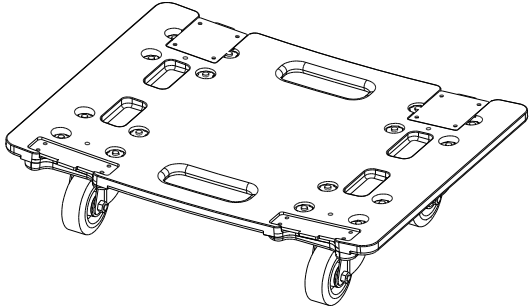
LNT-HBRK15

|  |  |
|--|--|
| Horizontal cradle, use with L15, CLADAPT |  |
|--|--|

PNI-CLADAPT

|                                  |   |
|----------------------------------|---|
| Ceiling Adapter, use with HBRK15 |  |
|----------------------------------|---|

LNT-WB15

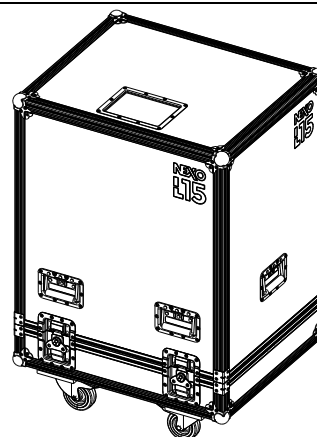
|            |  |
|------------|--|
| Wheelboard |  |
|------------|--|

LNT-COV15: COVER FOR L15 ON WHEELBOARD

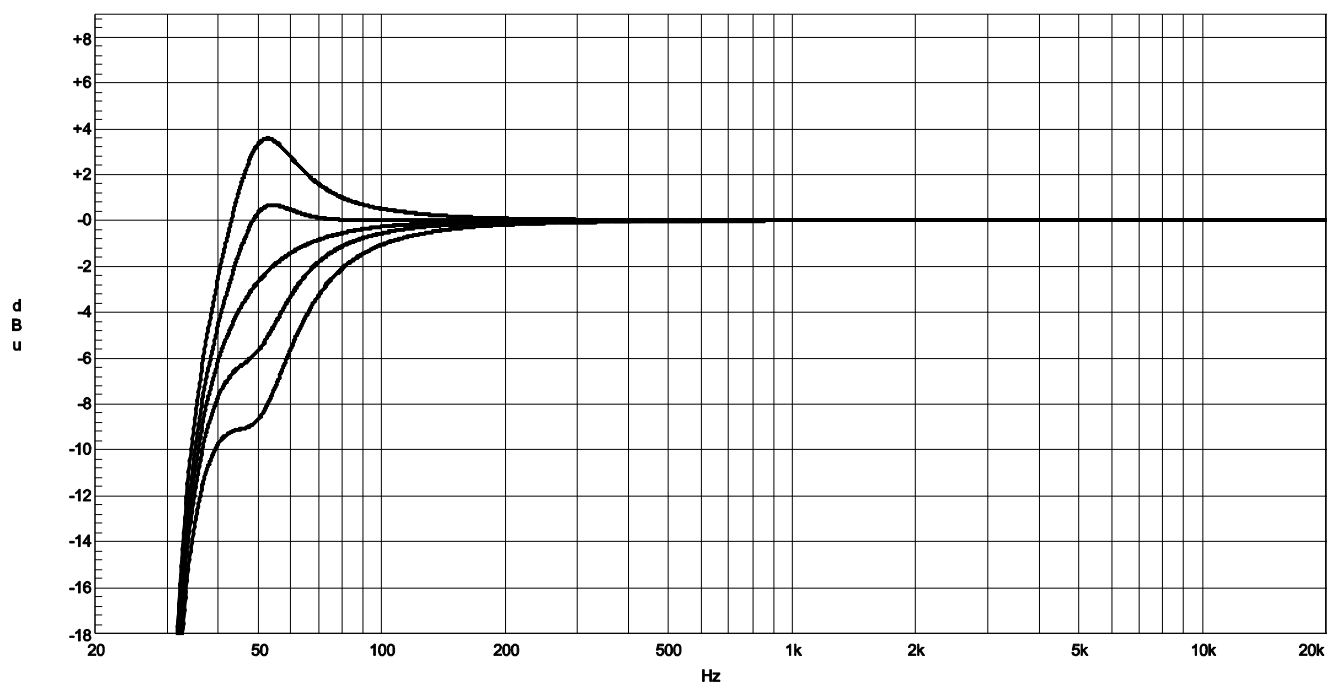


## LNT-2CASE15

Flight case for 2x L15

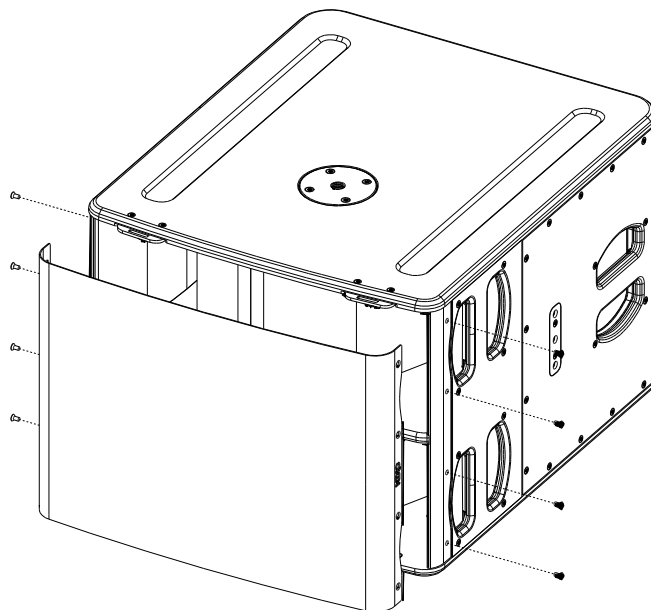
**ARRAY EQ**

The ArrayEQ allows to adjust the system frequency response in its lower range  
(see curves below, with different ArrayEq values):



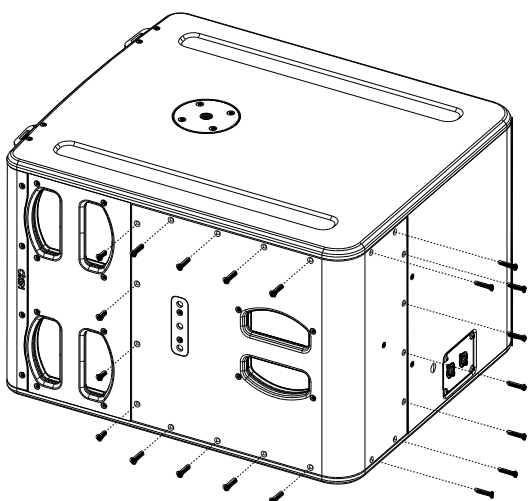
## MAINTENANCE

### Grille Changing: Remove 8 screws

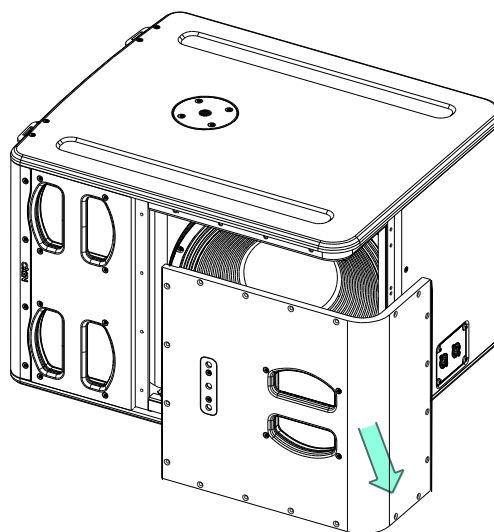


### 15" Driver

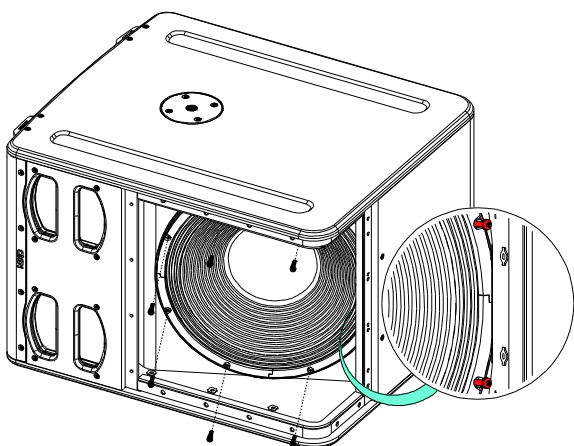
**1** Remove 20 screws



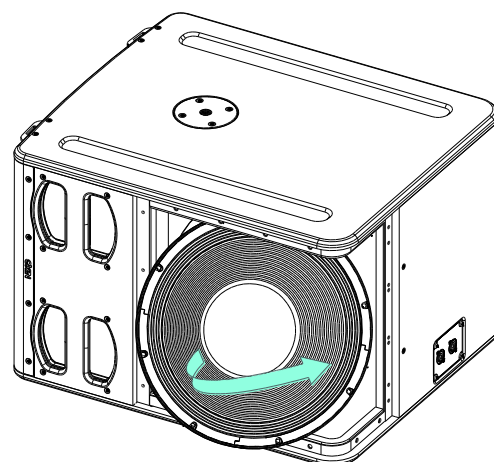
**2** Remove the trap



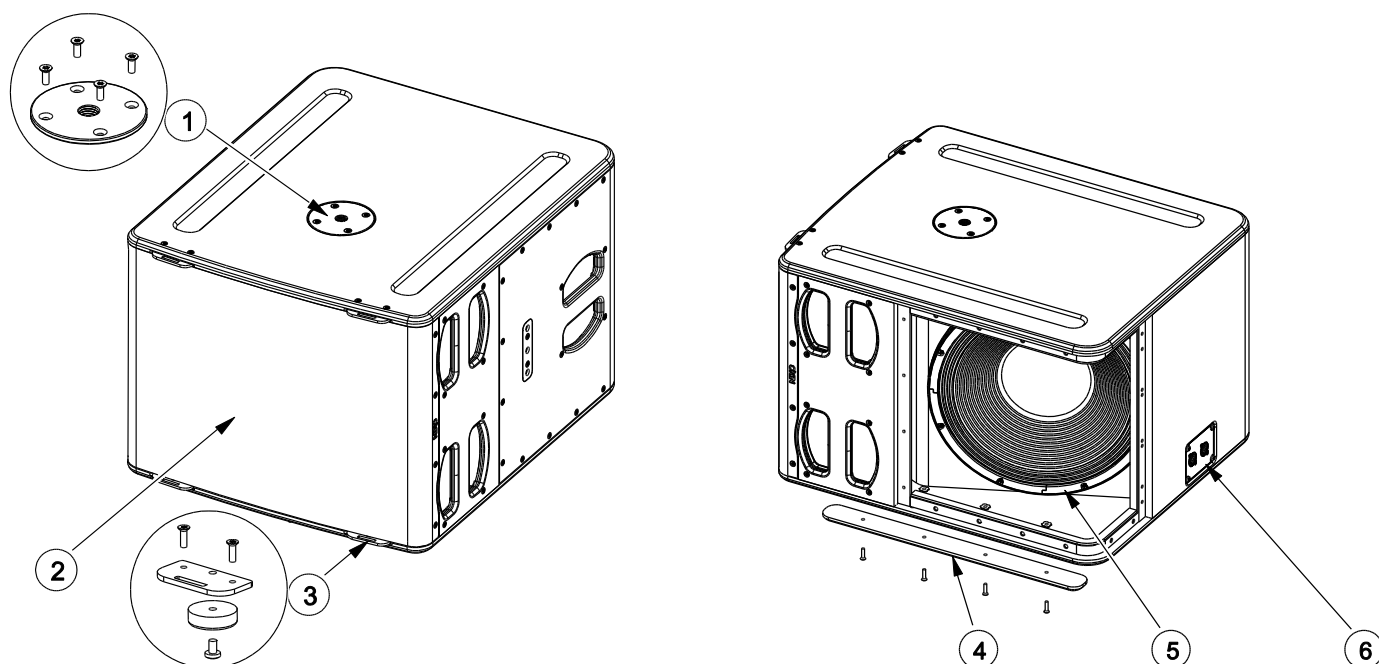
**3** Remove 8 screws, 2 inside with a curved screwdriver.



**4** Remove the driver.



# Spare parts



| MARK | QUANTITY | REFERENCE       | DESIGNATION   |
|------|----------|-----------------|---|
| 1    | 1        | 05DOUILM20N     | Connector Plate M20 Black (with fasteners)            |
|      | 1        | 05DOUILM20W     | Connector Plate M20 White (with fasteners)            |
| 2    | 1        | 05L15UA         | Complete grille Black (with fasteners)                |
|      | 1        | 05L15UA-PW      | Complete grille White (with fasteners)                |
| 3    | 4        | 05AMPLAVER02    | Wheelboard attachment Black (with fasteners)          |
|      | 4        | 05AMPLAVER02-PW | Wheelboard attachment White (with fasteners)          |
| 4    | 2        | 05PATIN01       | Rubber Skid Black (with fasteners)                    |
|      | 2        | 05PATIN01-PW    | Rubber Skid White (with fasteners)                    |
| 5    | 1        | 05HPB15-4       | 15" Driver (with fasteners)                           |
|      | 1        | 05HPB15-4R/K    | Recone kit (with fasteners)                           |
| 6    | 1        | 05CNX01         | Connection plate Black without lexan (with fasteners) |
|      | 1        | 05CNX01-PW      | Connection plate White without lexan (with fasteners) |
| 6a   | 1        | 05LEXCNX-L15    | Lexan CNX L15 Black                                   |
|      | 1        | 05LEXCNX-L15PW  | Lexan CNX L15 White                                   |
| 6b   | 2        | 05CNXNL4MDV-1   | Speakon NL4 MDV1                                      |

TECHNICAL SPECIFICATIONS

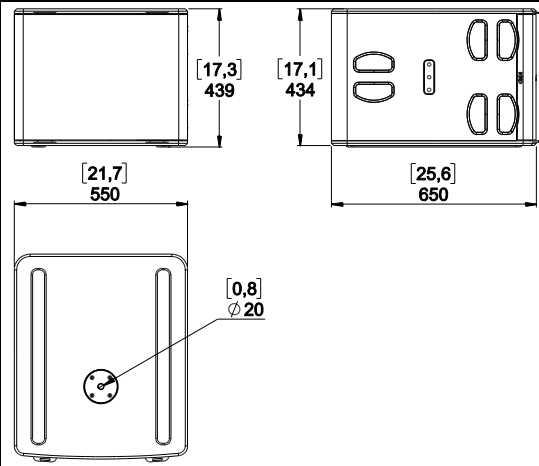
L15 WITH NEXO ELECTRONICS

|                        |                   |
|------------------------|-------------------|
| Model                  | L15               |
| Frequency range (±6dB) | 40Hz – 120Hz      |
| Peak SPL Level (1m)    | 139 dB Peak       |
| Operating voltage      | 55Vrms (150Vpeak) |
| Crossover Frequency    | 85Hz; 120Hz       |
| Nominal Impedance      | 4Ω                |

SPECIFICATIONS

|              |   |
|--------------|---|
| Model        | L15   |
| Components   | 1x 15” – 4 ohms – Long excursion – Neodymium driver   |
| Material     | Baltic birch / Poplar plywood   |
| Finish       | Black or white structural paint   |
| Front finish | Steel front grille  |
| Fittings     | Handles on both sides<br>Threated inserts on both sides for connection of mounting accessories<br>Stand fitting M20 |
| Connector    | 2x NL4, 4 poles connectors  |
| Weight       | 35 kg / 77 lb   |

Dimensions



**USER NOTES**

**NEXO S.A.**

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