



MAILA[®] SUB 15 F

15" FLYABLE POWERED BASS REFLEX PA SUBWOOFER

LDMAILASUB15F;

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1 DOCUMENT VERSION AND REVISIONS

Version	Date	Implemented changes
V1.0	05/2026	Original version

2 INTRODUCTION

2.1 YOU MADE THE RIGHT CHOICE!

This product has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Find further information about LD Systems on our website:

<https://www.ld-systems.com/>

2.2 CONTACTS

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2.3 LINK TO THE DOWNLOAD CENTRE



You can download some information, such as CAD data or technical data, from the Download Centre. Scan the QR code or click the link to download this information:

2.4

VISUALISATION CONVENTIONS IN THIS USER MANUAL

In this manual we use graphical symbols and icons in certain contexts. Find below a table with explanations and use cases of the graphical symbols and icons.

Icon / Symbol	Designation	Context	Explanation / Example
✓	Prerequisite	Tasks	Used in task topics to indicate a prerequisite that must be met before beginning the task.
⇒	Result / Intermediate Result	Tasks	Used in task topics to indicate a result or intermediate result of an action step.
1 Step a) Substep	1 Action Step a) Substep	Tasks	Used in task topics to indicate action steps and substeps.
1	Callout	Graphics; tasks	Text-image reference or labeling of certain functions on the device
[...]	Value range indicator	Technical data; paragraphs; lists	Indicates the range of a value, such as "Compressor ratio: 1:1...20:1 ". Mostly used in tables or callouts.
*	Asterisk	Paragraphs; tables	Indicates additional information in a footnote.
The LIM LED lights up	General User Interface element	Paragraphs; tasks; tables; lists	The words presented in this way represent graphic user interface elements on the device.
PAGE button	Key / Button	Paragraphs; tasks; tables; lists	The words presented in this way represent user interface controls on the device.
<name>	User input	Paragraphs; tasks; tables; lists	The words presented in this way represent required user inputs.
<u>https://adamhall.com</u>	Weblink	Paragraphs; tables; lists	External link to a website

3 PRODUCT COMPLIANCE

3.1 MANUFACTURER'S DECLARATION

Adam Hall offers a voluntary, EU-wide manufacturer's guarantee of 2 years. The statutory warranty period is not affected by this voluntary guarantee.

Visit the Adam Hall Service Portal to access the **Download Centre**:

<https://portal.adamhall.com/>

Under the **Service & Regulations** section, you find our current detailed manufacturer's declarations, warranty conditions, and limitation of liability.

To request warranty for a product, please contact:

Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu-Anspach

customerservice@adamhall.com

0049 (0)6081 / 9419-1000

3.2 DECLARATION OF CONFORMITY

UK
CA

Hereby, Adam Hall Ltd. declares that this product meets the following guidelines (where applicable)

- Electrical Equipment (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2012 (SI 2012/3032)
- Radio Equipment Regulations 2017 (SI 2016/2015)

Products that are subject to Electrical Equipment(Safety)Regulation 2016, EMC Regulation 2016 or RoHS Regulation can be requested at info@adamhall.com. Products that are subject to the Radio Equipments Regulations 2017 (SI2017/1206) can be downloaded at <http://www.adamhall.com/compliance>.

FCC STATEMENT



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

⚠ CAUTION! RF Exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

⚠ CAUTION! Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

ISED STATEMENT

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-003 (B)/NMB-003(B).

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

4 SAFETY INSTRUCTIONS

4.1 INTENDED USE

The **MAILA® SUB 15 F** is a flyable active 15" subwoofer with app control, intended as sound reinforcement. This product has been developed for the professional use in the field of event technology. Furthermore it is intended for qualified users with specialist knowledge of event technology only.

This product is intended for both mobile applications and fixed installations.

This product is intended for indoor use only.

This product is not suitable for domestic use.

Do not use the product outside the operating conditions as stated in the user manual under Technical Data. Liability for damage and third-party damage to persons and property due to inappropriate use is excluded.

This product is not suitable for children and persons with limited physical, sensory, or mental capabilities or lack of experience and knowledge.

4.2 EXPLANATION OF SAFETY AND WARNING SYMBOLS

Find the following safety and warning symbols on the device, the user manual, or the packaging:



This symbol indicates that you must read the complete user manual before using the product.



This symbol indicates a general hazardous situation.



This symbol indicates hazards that can cause electric shock.



This symbol indicates tripping hazards.



This symbol indicates high sound pressure levels.



This symbol indicates pinching hazards.



This symbol indicates hazards due to overhead loads.



This symbol indicates that the product is for indoor use only.



This symbol indicates that the product is not suitable for household use.



This symbol indicates helpful hints or additional information.

4.3

STRUCTURE OF WARNING MESSAGES

In this user manual, warning messages are structured with a safety symbol, a signal word, a hazard description, and instructions on how to avoid injuries or death.

**DANGER**

Indicates a hazardous situation which will result in death or serious injury.

**WARNING**

Indicates a hazardous situation which could result in death or serious injury

**CAUTION**

Indicates a hazardous situation which could result in minor or moderate injury.

**NOTICE**

Indicates situations or conditions that could result in damage to property and/or the environment.

4.4

GENERAL SAFETY



- Read this document carefully.



- Keep this document for later reference.



- Follow closely the instructions in this document.
- This document is an integral part of the product. If you sell or pass on the product, you must include this document.
- Only use this product according to its intended use.
- Risk of choking. Keep small parts away from children and individuals with impaired physical, sensory, or mental capabilities.
- Risk of suffocation. Keep plastic bags away from children and individuals with impaired physical, sensory, or mental capabilities.
- Observe all safety instructions and warning messages in this document, on the device, and on the packaging.
- Products are subject to continuous further development. If you find discrepancies between this document and the product labeling, the information on the product always takes priority.
- Do not remove safety instructions or warning messages from the product.
- Do not open the device.
- Do not modify the product.
- If the product shows any sign of damage, do not use it.
- Do not operate the product with removed or missing covers.

- Do not expose the product to direct sunlight.
- If not further specified in the user manual under Technical Data, do not use the product in ambient temperatures that exceed 40 °C / 104 °F or fall below 0 °C / 32 °F
- Do not use the product in tropical climate.
- Do not use the product above 2000 metres of altitude.
- Unless otherwise stated, do not use the product under marine conditions.
- Use only accessories specified by the manufacturer.
- Maintenance and repairs may only be carried out by authorized service personnel.
- Store and transport the product in a dry and safe environment.
- Clean the product on a regular basis. If applicable, see the user manual for maintenance intervals.
- If the device was exposed to strong temperature changes, such as during transport, do not switch it on immediately. Wait until the device has reached ambient temperature.
- High sound pressure levels may cause hearing damage. Avoid prolonged exposure to high sound pressure levels. Wear hearing protection.
- Risk of hearing damage. Plugging or unplugging devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.
- Risk of hearing damage. Switching on or off other devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.

4.5

ELECTRICAL SAFETY



- This is an electrical device in protection class I. Make sure that the protective conductor is connected to electrical earth. Do not disconnect the protective conductor.
- Do not bypass the mains fuse.
- Use only mains fuses as specified by the manufacturer.
- Do not use kinked or otherwise damaged power cables.
- Only operate the device on compliant, tested and intact mains power outlets.
- Do not use the device in the vicinity of water. Keep the device away from splashing or dripping water.
- Make sure that the voltage and frequency of the mains power match the values specified by the manufacturer.
- Take suitable measures against overvoltage, such as lightning strikes.
- For devices with a power out connector, make sure the total current consumption of all connected devices does not exceed the value specified by the manufacturer.
- This device is suitable for continuous current.
- Disconnect the device from all poles before maintenance, repair or extend periods of non-use.
- Permanently connected power cables may only be replaced by a qualified service technician.

4.6**PHYSICAL SAFETY**

- Make sure that all mounting connections are adequately dimensioned. Observe the relevant regional safety guidelines when mounting the device.



- Make sure that the device and any accessories are securely positioned. Secure against unintentional movement.



- Check all load-bearing screw connections regularly and replace them if necessary.



- Check all cable routes to prevent tripping accidents.
- Moving components, such as mounting brackets, pose a risk of pinching injuries.

4.7**THERMAL SAFETY**

- Do not install the device near heat sources, such as radiators or ovens.
- Do not block any ventilation openings.
- Unless otherwise stated, keep a minimum clearance of at least 20 centimetres around the device.
- Unless otherwise stated, keep flammable materials, such as paper or wood, at least 50 centimetres away from the device

4.8**WIRELESS SAFETY**

Radio transmitter operation is subject to official regulations. Make sure you adhere to regional guidelines before commissioning.

Radio operation can lead to potentially dangerous effects. Do not use this device in sensitive areas such as:

- Hospitals, health centres or other healthcare facilities that provide patient treatment with skilled personnel and equipment
- Explosive atmospheres, including:
 - ATEX zones (Zone 0, 1, 2, 20, 21, 22) (EU)
 - Hazardous Locations Class I, II and III (US/Canada)
- Restricted areas
- Military facilities
- Areas where the use of mobile phones is prohibited, such as aircrafts.



Quality and performance of wireless signal transmissions is dependent on the environmental conditions. All range specifications refer to free-field application with visual contact without interference. Range and signal stability may be influenced by:

- Shielding, such as masonry, metal buildings, or water
- Interference
- High radio traffic, such as strong W-LAN networks
- Electromagnetic radiation, such as LED video walls or dimmers

4.9**DEVICE SAFETY**

- Do not switch the device on and off in quick succession, because this will shorten the device lifetime.
- Loudspeakers generate a magnetic field, even when they are not in use. Devices, such as hard disk drives or cheque cards may be affected by the loudspeaker's magnetic field. Do not set up or transport these devices near the loudspeaker.

5 PRODUCT DESCRIPTION

5.1 PRODUCT VARIANTS

The **MAILA® SUB 15** is available in 6 variants:

- **MAILA® SUB 15** - 15" Powered Bass Reflex PA Subwoofer
- **MAILA® SUB 15 F** - 15" Flyable Powered Bass Reflex PA Subwoofer
- **MAILA® SUB 15 P** - 15" Passive Bass Reflex PA Subwoofer
- **MAILA® SUB 15 P W** - 15" Passive Bass Reflex PA Subwoofer, white
- **MAILA® SUB 15 F P** - 15" Flyable Passive Bass Reflex PA Subwoofer
- **MAILA® SUB 15 F P W** - 15" Flyable Passive Bass Reflex PA Subwoofer, white

5.2 OPTIONAL ACCESSORIES

Find various accessories for your product in the Adam Hall Shop:

<https://www.adamhall.com/shop>

Accessory	Article Number
MAILA SUB 15 PC Padded protective cover for MAILA SUB 15	LDMAILASUB15PC
MAILA SUB 15 CB Castor board for MAILA SUB 15	LDMAILASUB15CB
MAILA DB Speaker pole for MAILA SPA	LDMAILADB
MAILA SUB 15 FB Flying Bracket for MAILA SUB 15 F (P)	LDMAILASUB15FB

5.3

TECHNICAL DATA

GENERAL

Parameter	Value
Article number	LDMAILASUB15F
RMS output power	1,250 W
Amp class	Class D
Max. SPL peak (sine burst, halfspace / 1 m, THD ≤ 10 %)	126 dB
Max. SPL peak (pink noise, halfspace/1 m, CF 4)	132 dB
Max. SPL average (sine burst, BW, halfspace / 1 m, THD ≤ 10 %)	124 dB
Low frequency limit (-3 dB, rel. Avg.)	37 Hz
Low frequency limit (-6 dB, rel. Avg.)	34 Hz
Low frequency limit (-10 dB, rel. Avg.)	31 Hz
Number of inputs	1
Input connector types	XLR 3-pole female
Number of outputs	1
Output connector types	XLR 3-pole male
Protection features	Limiter, Overheating, Overload
Colour	Black

BLUETOOTH®

Parameter	Value
Bluetooth® version	Bluetooth® 4.2
Features	App Control

LINE INPUT PERFORMANCE

Parameter	Value
Input impedance (balanced)	20 kΩ

SIGNAL PROCESSING

Parameter	Value
Audio processing	Fully parametric 10-band EQ, Delay Line, Presets
AD/DA converter bit depth	24 Bit
AD/DA converter sampling rate	48 kHz

BASS DRIVER

Parameter	Value
Size	15"
Magnet	Neodym
Voice coil	4"

MAINS OPERATION

Parameter	Value
Operation voltage	100 V AC - 240 V AC / 50 Hz - 60 Hz
Power consumption (max.)	750 W
Power supply type	Switched-mode power supply (SMPS)
Mains connector	Mains socket indoor power in male & powerCON®

HOUSING

Parameter	Value
Design	Bass reflex
Number of handles	3
Chassis material	Birch multiplex
Coating	Polyurea

COOLING

Parameter	Value
Cooling system	Convection cooling

ENVIRONMENTAL

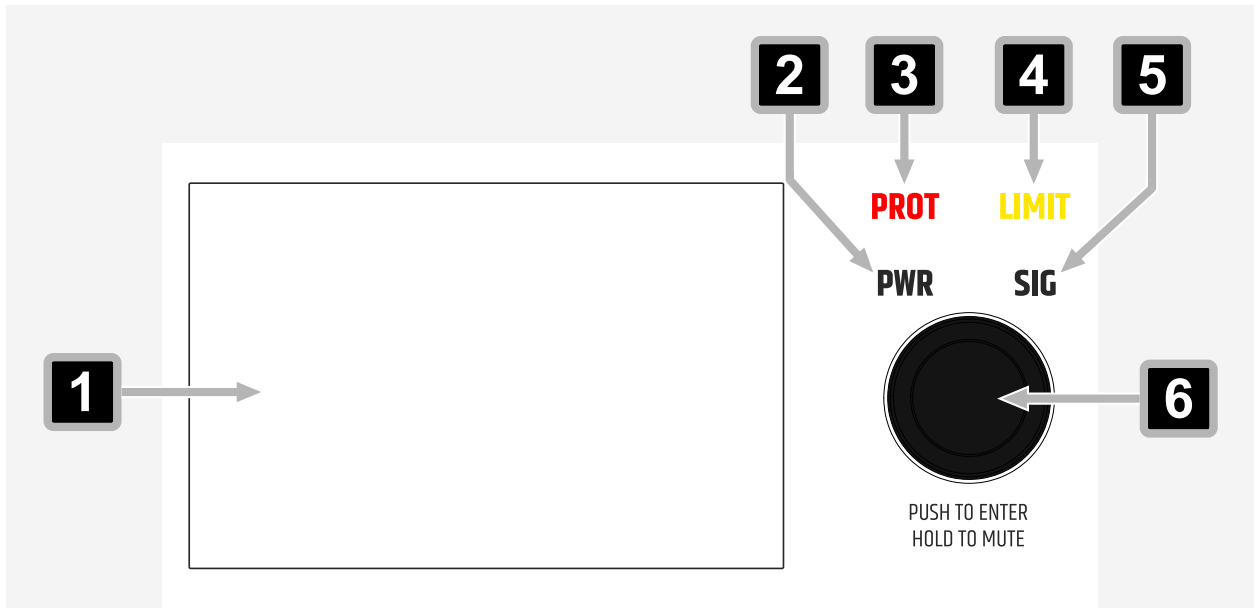
Parameter	Value
Ambient temperature	0 ... 40 °C
Maximum air humidity (non-condensing)	80 %

DIMENSIONS AND WEIGHT

Parameter	Value
Width	540mm
Height	474mm
Depth	761mm
Weight	46.3 kg

5.4

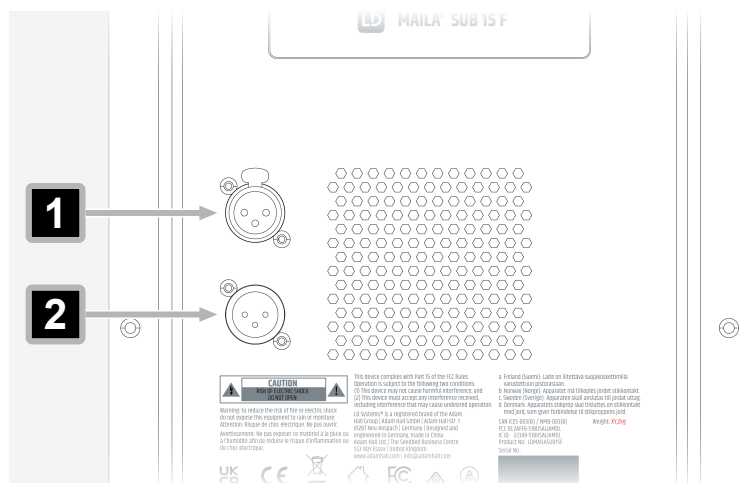
USER INTERFACE



- 1** **LC Display** - Main graphic colour display
- 2** **PWR LED** - Indicates whether the device is on or off.
- 3** **PROT LED** - Indicates whether the protection is active. The device is overloaded or overheated. The device returns to normal operation after a few minutes when normal operating conditions are reached.
- 4** **LIMIT LED** - Indicates whether the limiter is active.
Brief illumination of the **LIMIT LED** is not critical.
Longer or permanent illumination of the **LIMIT LED**: Reduce the volume of the device or reduce the volume of the input signal.
- 5** **SIG LED** - Indicates that an audio signal is present at the **INPUT**.
- 6** **Rotary-Push Encoder (RPE)** - Controls the display menu items. Press and hold 2 seconds to mute or unmute the device.

5.5

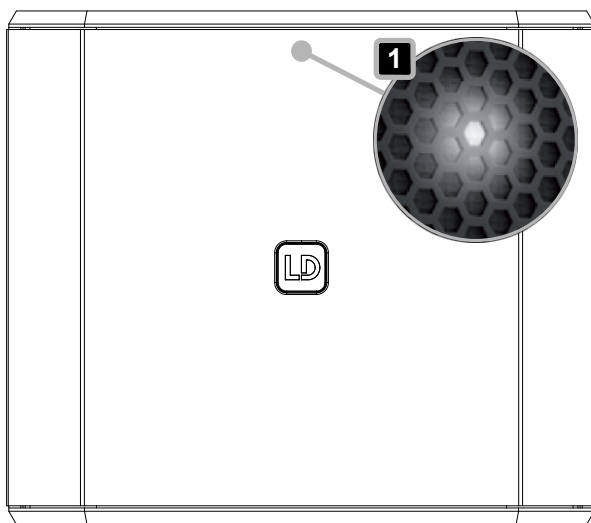
AUDIO CONNECTIONS



- 1** INPUT - Line input socket (balanced 3-pin XLR)
- 2** THRU - Line output socket (balanced 3-pin XLR). Outputs the line input signal.

5.6

IDENTIFICATION LED



Activate an LED **1** for easy identification of the device when configuring with the **MAILA** app.



When using the subwoofer in a cardioid setup, the LC display on the rear of the device serves as an additional identification LED.

6 PREPARATION

6.1 SCOPE OF DELIVERY

- Device
- Mains power cable
- Safety Compliance Information
- Quick Start Guide

7 INSTALLATION

7.1

ATTACHING A SPEAKER POLE

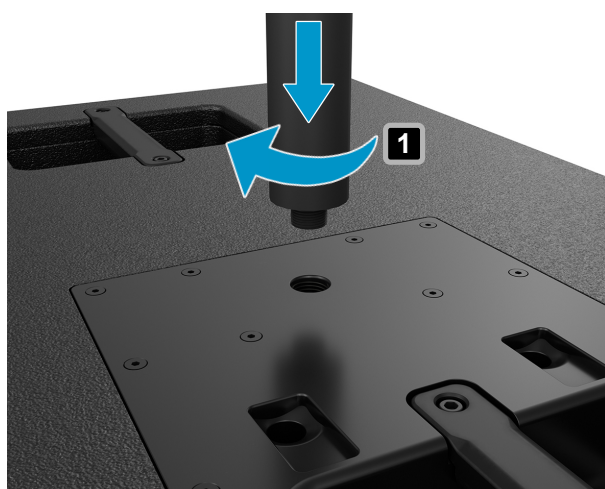


WARNING

Falling object

Risk of serious injury

- a. Observe all regional safety regulations concerning overhead loads.
- b. Use only speaker poles with a suitable tube diameter.
- c. Make sure that the speaker pole supports the weight of the device.
- d. Make sure that the device with attached speaker pole is securely positioned on a level surface.

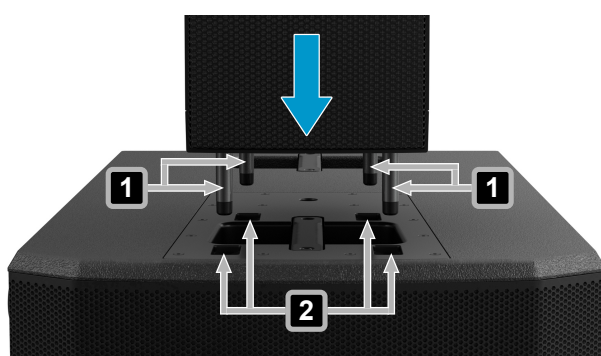


✓ You have securely placed the **MAILA SUB 15** on a stable and level surface.

- 1 Screw in the **MAILA DB** speaker pole. **1**

7.2

ATTACHING THE MAILA COL (P) TO A MAILA SUBWOOFER



✓ You have securely placed the **MAILA** subwoofer on a stable and level surface.

- 1 Insert the 4 steel bolts **1** of the **MAILA COL (P)** into the 4 retaining sockets **2** of the **MAILA** subwoofer connecting plate.
- 2 Move the **MAILA COL (P)** as far down as possible.



- 3** Tighten the screw on the back of the MAILA COL (P). **3**

7.3

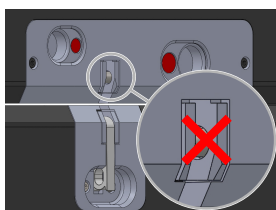
MECHANICAL JOINING OF 2 SUBWOOFERS

**WARNING**

Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

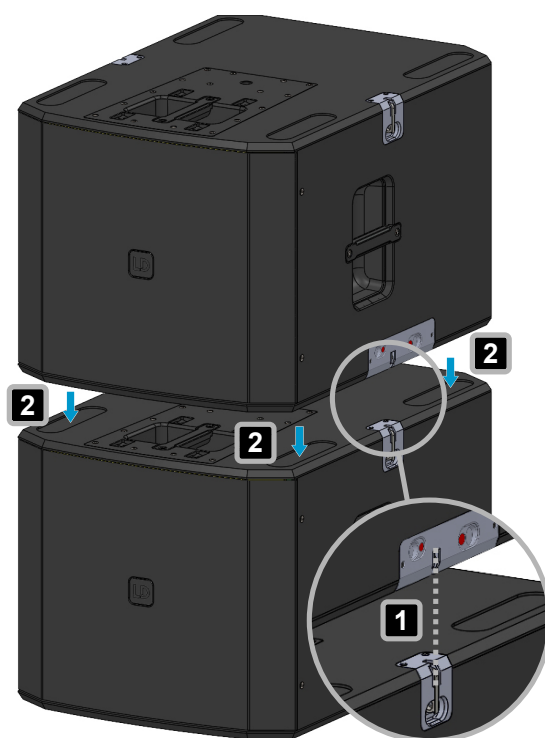
Serious injury or damage can be caused by falling, shifting, or unsecured components.

- a. Only qualified personnel shall carry out the work.
- b. Secure all components to prevent movement and falling loads.
- c. Follow all applicable safety regulations and specifications.

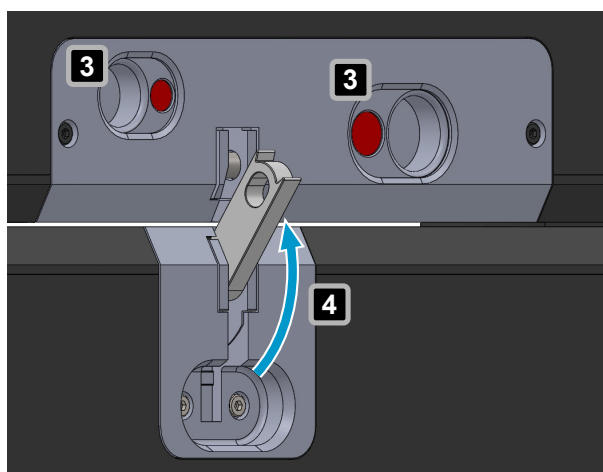
**WARNING****Reaching into the FastRig locking mechanism.**

Crushing hazard from moving parts.

- a. Do not reach into the locking mechanism.

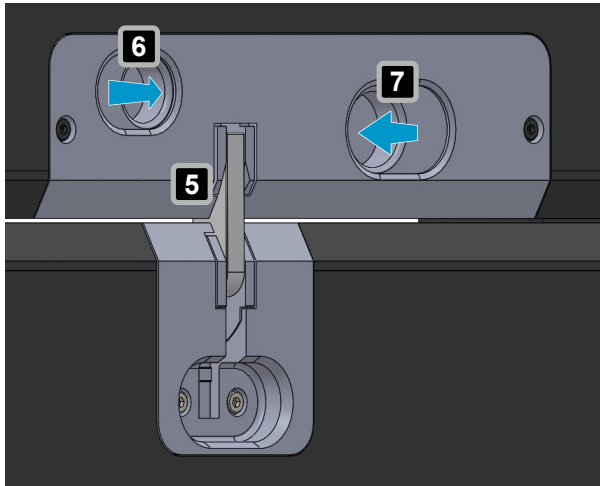


- 1 Place the subwoofer on top of the other one. Make sure the locking bar and the lock are aligned on both sides of the subwoofer **1** and the feet sit exactly in the recesses **2**.



✓ Both **FastRig®** sliders are locked in the open position. **3**

- 2 Fold the locking tab upwards **4** and press it into the lock.



⇒ The locking tab locks into place. **5**

⇒ Both **FastRig®** sliders lock into place.

- 3** Make sure that both **FastRig®** sliders are fully closed by pushing them to the right **6** and left **7** respectively.

⇒ Both **FastRig®** sliders are fully closed, and the red markings are not visible.

- 4** Repeat the procedure on the opposite side of the subwoofers.

⇒ The subwoofers are physically connected to one another.

7.4

MECHANICAL SEPARATION OF 2 SUBWOOFERS



WARNING

Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

Serious injury or damage can be caused by falling, shifting, or unsecured components.

- a. Only qualified personnel shall carry out the work.
- b. Secure all components to prevent movement and falling loads.
- c. Follow all applicable safety regulations and specifications.

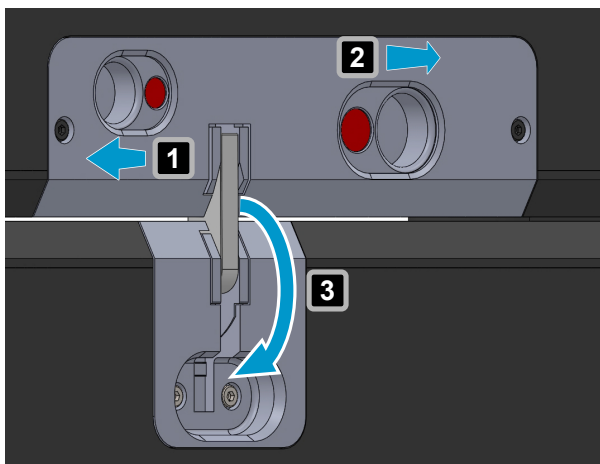


WARNING

Detaching components under load.

Risk of serious injury or damage from falling components.

- a. Do not detach components under load.
- b. Support and secure all loads before detaching components.
- c. Keep clear of suspended components.



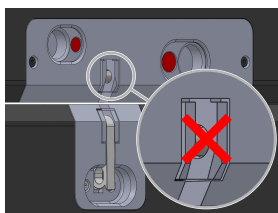
- 1** Slide the left **FastRig®** slider as far to the left as possible and hold it. **1**

- 2** Slide the right **FastRig®** slider as far to the right as possible and hold it. **2**

- 3** Release the left **FastRig®** slider. **1**

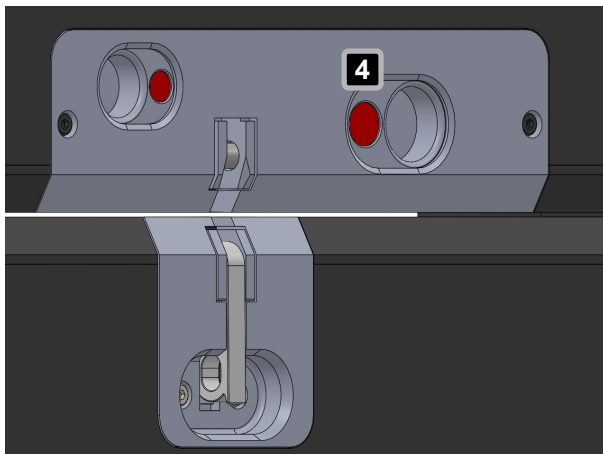
⇒ The **FastRig®** slider locks into place.

- 4** Fold out the locking tab. **3**

**WARNING****Reaching into the FastRig locking mechanism.**

Crushing hazard from moving parts.

- a. Do not reach into the locking mechanism.



- 5** Release the right **FastRig®** slider. **4**

⇒ The **FastRig®** slider locks into place.

- 6** Repeat the procedure on the opposite side of the subwoofers.

⇒ The subwoofers are separate from one another.

7.5 ATTACHING THE MAILA SUB 15 FLYING BRACKET TO A MAILA SUBWOOFER

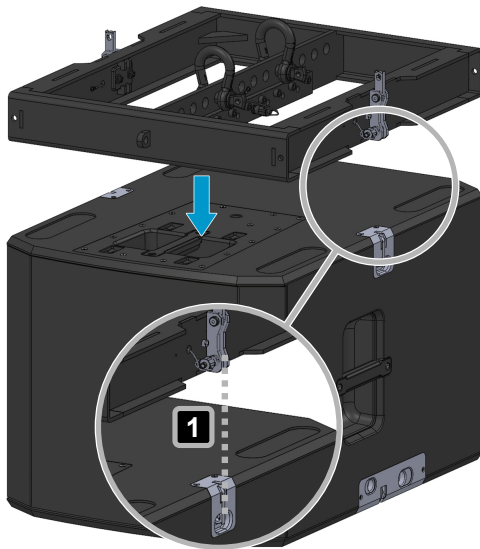
7.5.1 ATTACHING THE MAILA SUB 15 FLYING BRACKET TO THE TOP SIDE OF THE SUBWOOFER



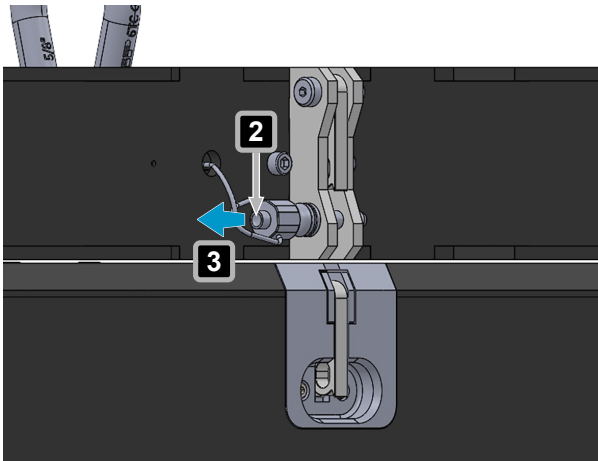
Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

Serious injury or damage can be caused by falling, shifting, or unsecured components.

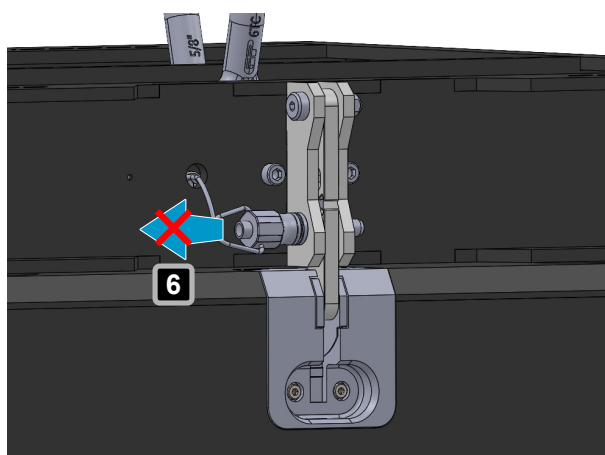
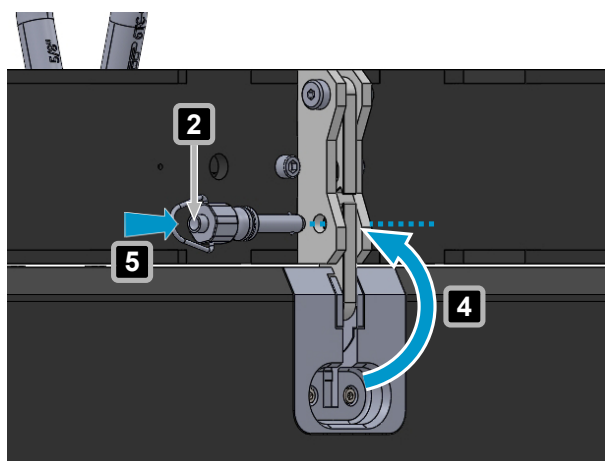
- a. Only qualified personnel shall carry out the work.
- b. Secure all components to prevent movement and falling loads.
- c. Follow all applicable safety regulations and specifications.



- 1** Place the flying bracket on the subwoofer. Make sure the locking bar and the clevis are aligned on both sides of the subwoofer. **1**



- 2** Remove the ball-lock pin from the clevis.
 - a)** Press and hold the button on the end of the ball-lock pin. **2**
 - b)** Pull the ball-lock pin out of the clevis. **3**



- 3** Fold the tab of the subwoofer upwards. **4**
- 4** Make sure that the holes of the clevis and the tab of the subwoofer are properly aligned.
- 5** Insert the ball-lock pin.
 - a)** Press and hold the button on the end of the ball-lock pin. **2**
 - b)** Insert the ball-lock pin fully. **5**
 - c)** Release the button on the end of the ball-lock pin. **2**
- 6** Pull the ball-lock pin and check that it is securely locked. **6**
- 7** Repeat the procedure on the opposite side of the subwoofer.

⇒ The subwoofer and the flying bracket are physically connected to each other.

See also:
Optional Accessories [17]

7.5.2 ATTACHING THE MAILA SUB 15 FLYING BRACKET TO THE UNDERSIDE OF THE SUBWOOFER

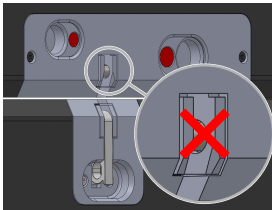


WARNING

Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

Serious injury or damage can be caused by falling, shifting, or unsecured components.

- a. Only qualified personnel shall carry out the work.
- b. Secure all components to prevent movement and falling loads.
- c. Follow all applicable safety regulations and specifications.

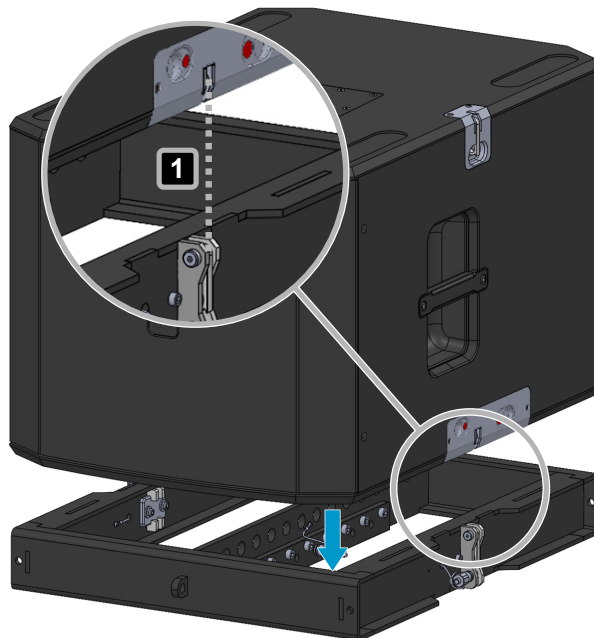


WARNING

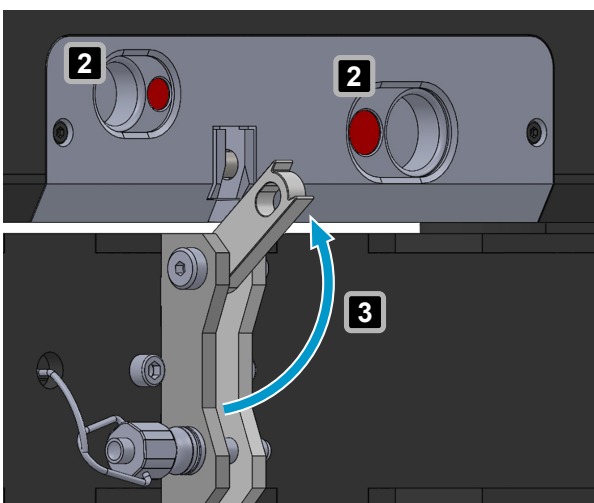
Reaching into the FastRig locking mechanism.

Crushing hazard from moving parts.

- a. Do not reach into the locking mechanism.

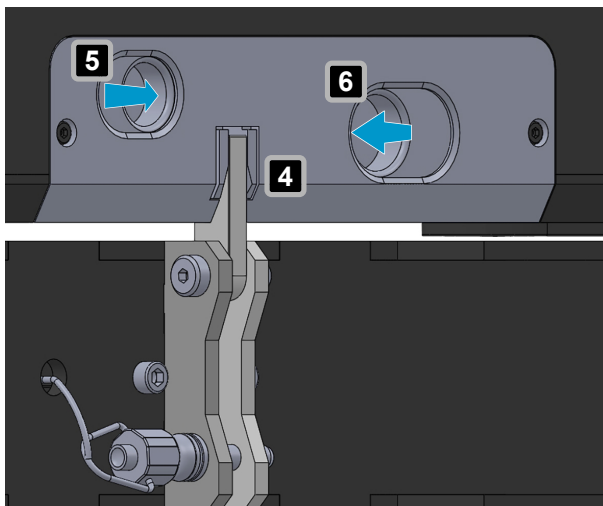


- 1** Place the subwoofer on the flying bracket. Make sure the locking bar and the lock are aligned on both sides of the subwoofer. **1**



✓ Both **FastRig®** sliders are locked in the open position. **2**

- 2** Fold the locking tab upwards **3** and press it into the lock.



⇒ The locking tab locks into place. **4**

⇒ Both **FastRig**® sliders lock into place.

- 3** Make sure that both **FastRig**® sliders are fully closed by pushing them to the right **5** and left **6** respectively.

⇒ Both **FastRig**® sliders are fully closed, and the red markings are not visible.

- 4** Repeat the procedure on the opposite side of the subwoofer.

⇒ The subwoofer and the flying bracket are physically connected to each other.

See also:

Optional Accessories [17]

7.6

DETACHING THE MAILA SUB 15 FLYING BRACKET FROM A MAILA SUBWOOFER

7.6.1

DETACHING THE MAILA SUB 15 FLYING BRACKET FROM THE TOP SIDE OF THE SUBWOOFER



Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

Serious injury or damage can be caused by falling, shifting, or unsecured components.

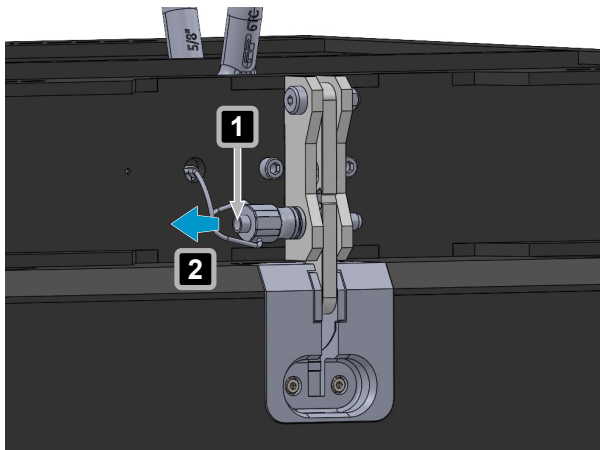
- a. Only qualified personnel shall carry out the work.
- b. Secure all components to prevent movement and falling loads.
- c. Follow all applicable safety regulations and specifications.



Detaching components under load.

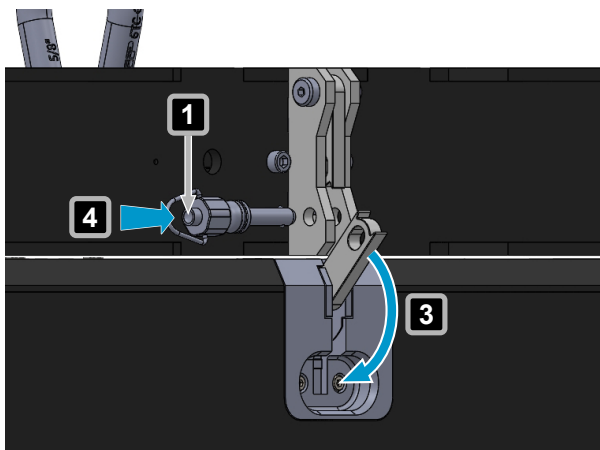
Risk of serious injury or damage from falling components.

- a. Do not detach components under load.
- b. Support and secure all loads before detaching components.
- c. Keep clear of suspended components.



- ✓ The flying bracket and the subwoofer are standing securely on a flat surface and are not under any load.

- 1 Remove the ball-lock pin from the clevis.
 - a) Press and hold the button on the end of the ball-lock pin. **1**
 - b) Pull the ball-lock pin out of the clevis. **2**



- 2 Fold out the locking tab. **3**
- 3 Insert the ball-lock pin.
 - a) Press and hold the button on the end of the ball-lock pin. **1**
 - b) Insert the ball-lock pin fully. **4**
 - c) Release the button on the end of the ball-lock pin. **1**
- 4 Repeat the procedure on the opposite side of the subwoofer.
 - ⇒ The subwoofer and the flying bracket are physically separate from one another.

7.6.2 DETACHING THE MAILA SUB 15 FLYING BRACKET FROM THE UNDERSIDE OF THE SUBWOOFER



WARNING

Mechanical hazards, including crushing and shearing, can occur during incorrect attaching or detaching of load-bearing components.

Serious injury or damage can be caused by falling, shifting, or unsecured components.

- Only qualified personnel shall carry out the work.
- Secure all components to prevent movement and falling loads.
- Follow all applicable safety regulations and specifications.

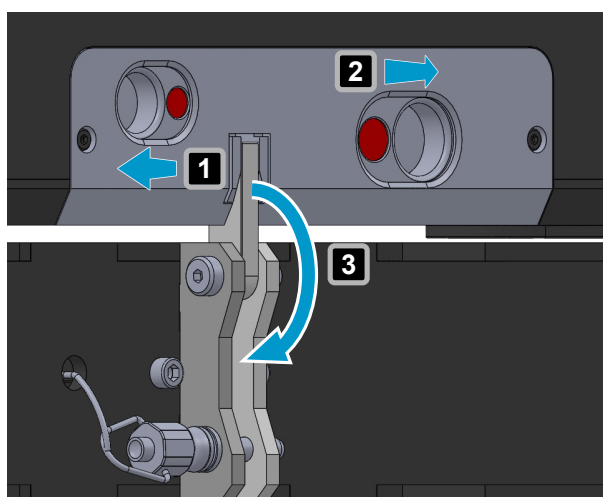


WARNING

Detaching components under load.

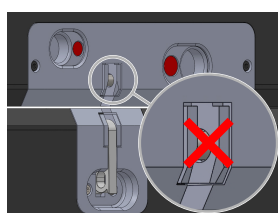
Risk of serious injury or damage from falling components.

- Do not detach components under load.
- Support and secure all loads before detaching components.
- Keep clear of suspended components.



- ✓ The flying bracket and the subwoofer are standing securely on a flat surface and are not under any load.

- Slide the left **FastRig®** slider as far to the left as possible. **1**
⇒ The **FastRig®** slider locks into place.
- Slide the right **FastRig®** slider as far to the right as possible and hold it. **2**
- Fold out the locking tab. **3**

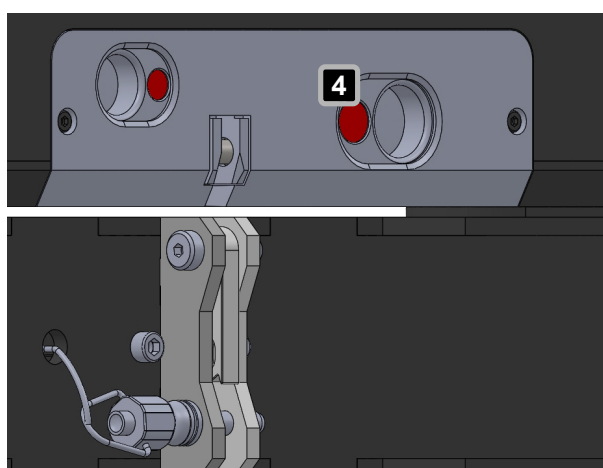


WARNING

Reaching into the FastRig locking mechanism.

Crushing hazard from moving parts.

- Do not reach into the locking mechanism.

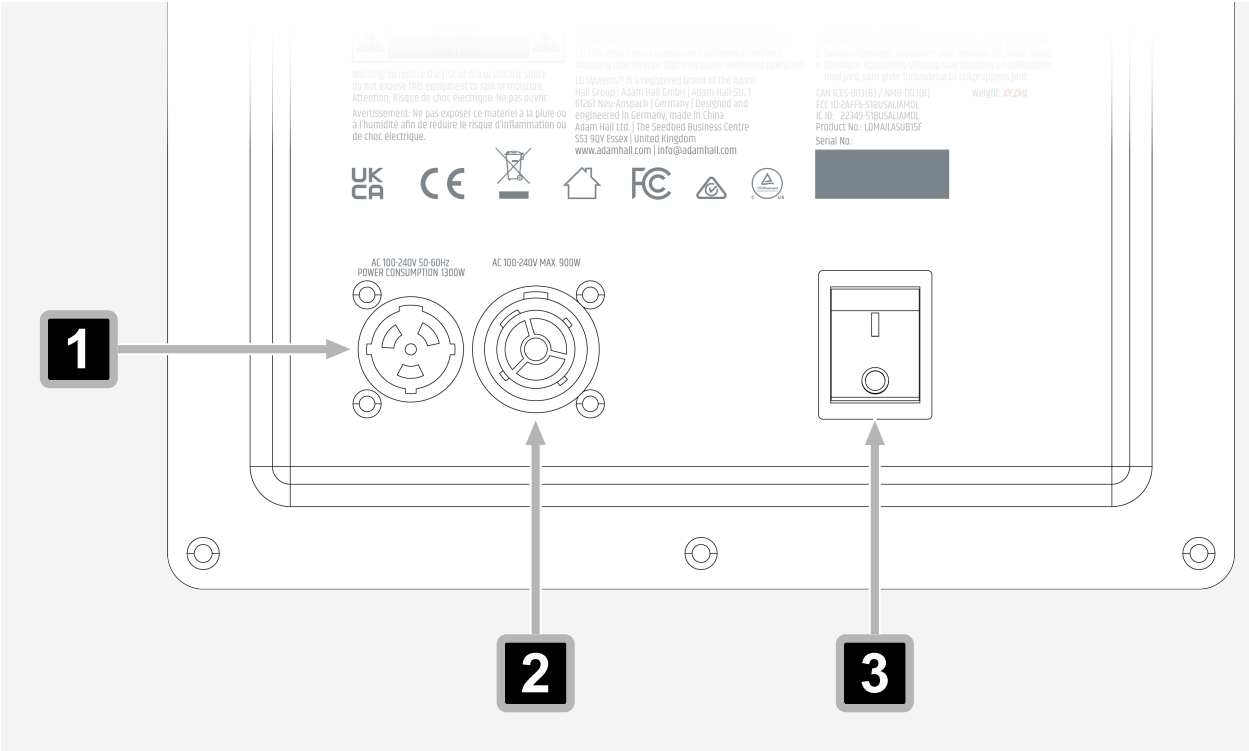


- Release the right **FastRig®** slider. **4**
⇒ The **FastRig®** slider locks into place.
- Repeat the procedure on the opposite side of the subwoofer.
⇒ The subwoofer and the flying bracket are physically separate from one another.

8 OPERATION

8.1 POWER SUPPLY

8.1.1 POWER CONNECTIONS



- 1** POWER INPUT - Device power socket (powerCON® TRUE1 male)
- 2** POWER OUTPUT - Power output socket (powerCON® TRUE1 female)
- 3** POWER - On / Off switch

8.1.2 CONNECTING A MAINS POWER CABLE



WARNING

Mains voltage

Risk of electric shock

- a. Do not use kinked or damaged mains power cables.



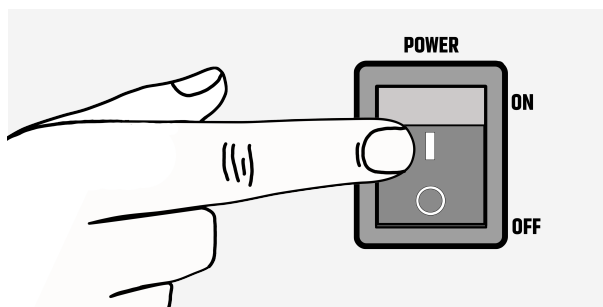
NOTICE

Damage to the Device

- a. Make sure that the voltage of the mains power socket matches the device operating voltage.
- b. Use only supplied power cables or original Neutrik powerCON® TRUE1 cables. Otherwise you must not plug or unplug the device under load.

- 1 Plug the device power connector into the device. Make sure the bayonet connector is positioned correctly.
- 2 Turn the bayonet connector clockwise to lock it.
- 3 Plug the mains power connector into the mains power socket.

8.1.3 TURNING THE DEVICE ON OR OFF



- 1 Flip the switch from the ○ to the ▮ position.
⇒ The display turns on and the device boots.
⇒ After a few seconds, the device is operational.
- 2 Flip the switch from the ▮ to the ○ position.
⇒ The device turns off.

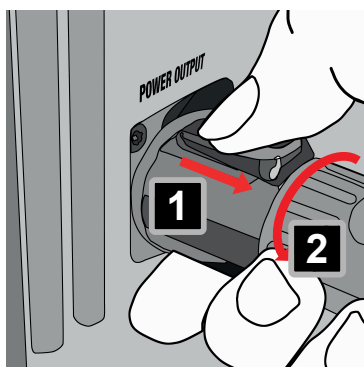
8.1.4 DISCONNECTING A MAINS POWER CABLE



NOTICE

Damage to the Device

- a. Make sure that the voltage of the mains power socket matches the device operating voltage.
- b. Use only supplied power cables or original Neutrik powerCON® TRUE1 cables. Otherwise you must not plug or unplug the device under load.



- 1 Disconnect the mains power connector of the mains power cable from the mains power socket.
- 2 Pull the locking lever of the bayonet connector backwards and hold it. **1**
- 3 Turn the bayonet connector anticlockwise. **2**
- 4 Pull the bayonet connector out of the socket.

8.2 DEVICE NAVIGATION

8.2.1 USING THE ROTARY-PUSH ENCODER

Use the **rotary-push encoder (RPE)** to access all menu items and adjust values.

8.2.1.1 NAVIGATING THE MENU



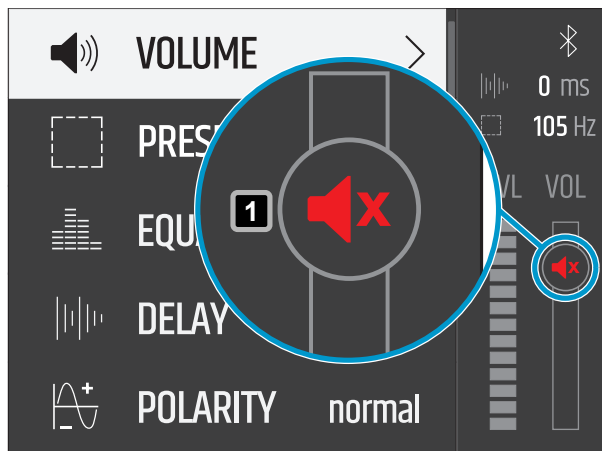
After about 30 seconds of inactivity, the selection returns to the main screen (**VOLUME**).

- 1** If necessary, briefly press the **rotary-push encoder (RPE)** to return to the menu.
- 2** Turn the **RPE** until a corresponding menu item is highlighted.
- 3** Press the **RPE** to access the highlighted menu item.

8.2.1.2 CHANGING VALUES

- 1** Turn the **rotary-push encoder (RPE)** until the corresponding value input is highlighted.
- 2** Press the **RPE** to access the highlighted value input.
- 3** Turn the **RPE** to adjust the value.
- 4** Press the **RPE** to confirm.

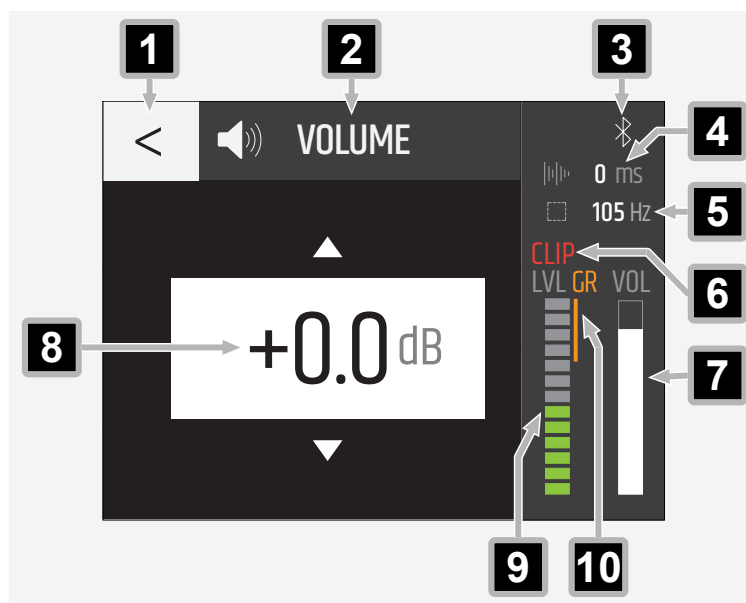
8.2.1.3 HOLDING FOR MUTE



- 1** Press and hold the **rotary-push encoder (RPE)** for about 2 seconds to toggle the mute of the device on / off.
⇒ The red mute icon **1** indicates that mute is activated.

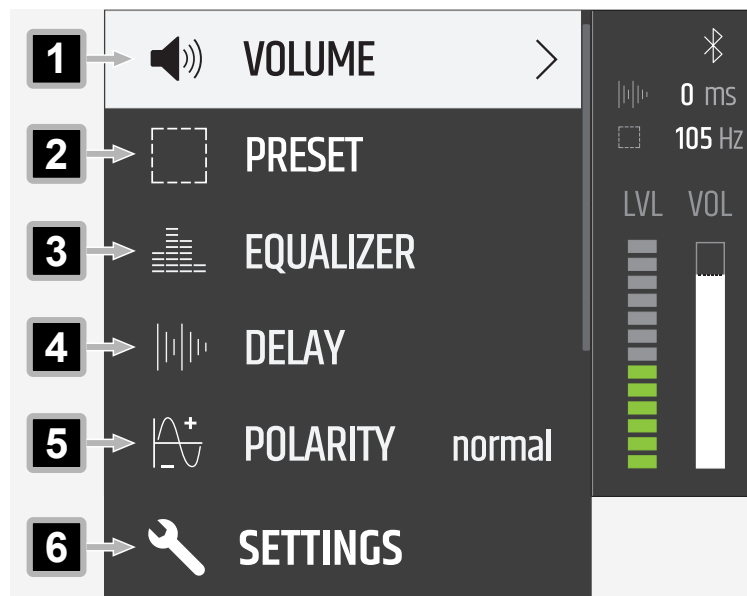
8.3 DEVICE DISPLAY OVERVIEWS

8.3.1 MAIN SCREEN / VOLUME OVERVIEW



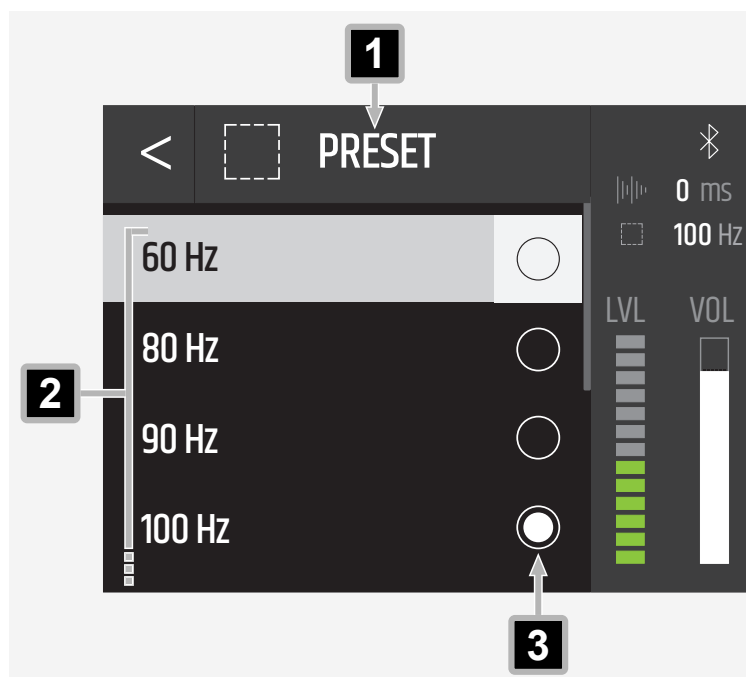
- 1** < - Returns to the menu
- 2** **Menu Item** - Indicates the currently selected menu item.
- 3** - Indicates that Bluetooth® is enabled.
 - Indicates that Bluetooth® is disabled.
- 4** - Indicates the set **DELAY** value in milliseconds.
- 5** - Indicates the name of the currently activated preset.
- 6** **CLIP** - Indicates that the input stage is operated above the distortion limit.
- 7** **VOL** - Indicates the set volume level graphically.
- 8** **Volume Level** - Indicates the set volume level in dB.
- 9** **LVL** - 12-segment signal level metering
- 10** **GR** - Indicates the current gain reduction of the integrated limiter.

8.3.2 MAIN MENU OVERVIEW



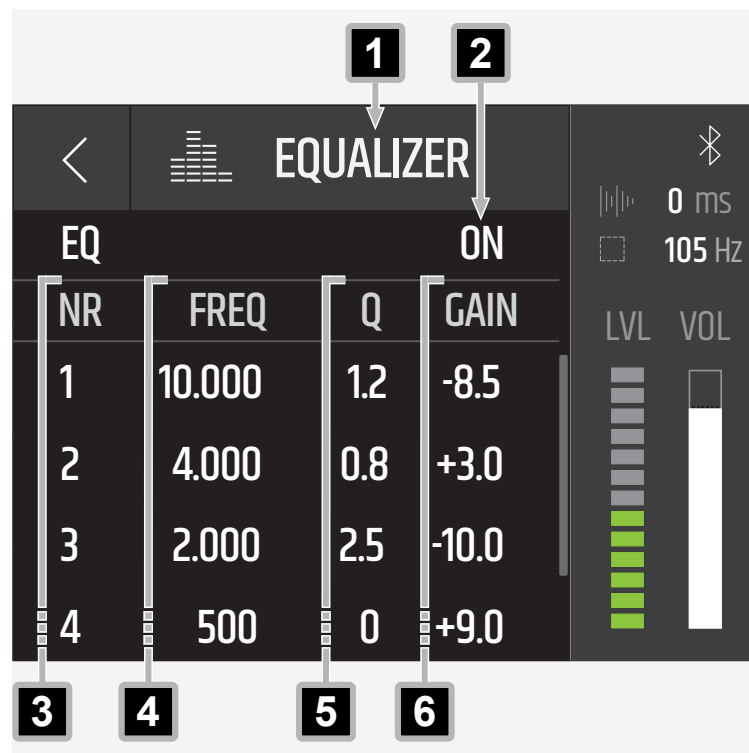
- 1** **VOLUME** - Opens the volume setting
- 2** **PRESET** - Opens the preset selection
- 3** **EQUALIZER** - Opens the equaliser
- 4** **DELAY** - Opens the delay settings
- 5** **POLARITY** - Toggles the polarity to **normal** or **inverted**
- 6** **SETTINGS** - Opens the system settings

8.3.3 PRESET OVERVIEW



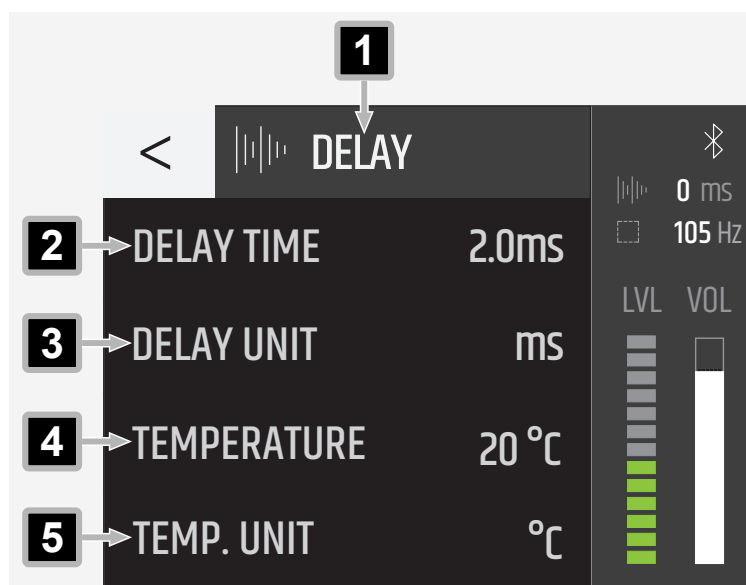
- 1** **Menu Item** - Indicates the currently selected menu item.
- 2** **Preset List** - Displays the available presets.
- 3** ☒ - Indicates the currently selected preset.

8.3.4 EQUALISER OVERVIEW



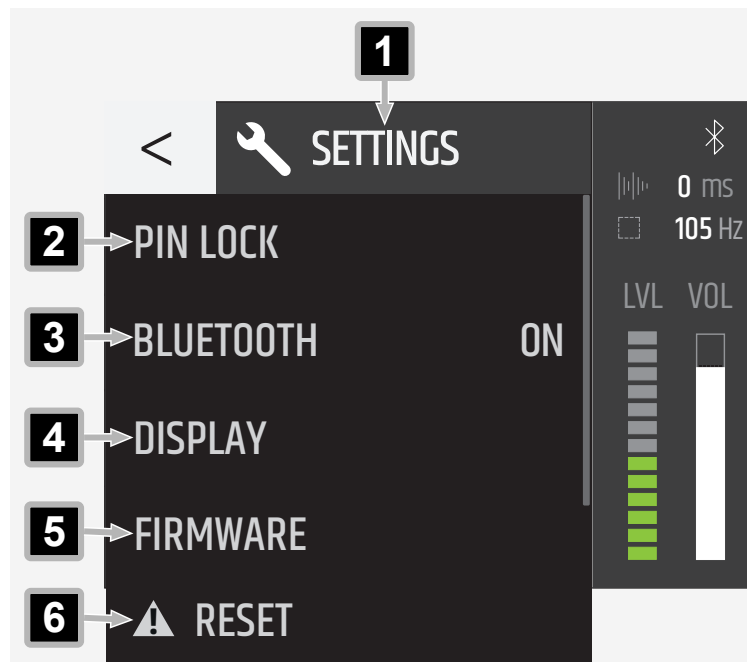
- 1** **Menu Item** - Indicates the currently selected menu item.
- 2** **ON** - Toggles the equaliser on or off.
- 3** **NR** - Indicates the number of the corresponding equaliser band (1 ... 10).
- 4** **FREQ** - Adjusts the frequency for the corresponding equaliser band (30 Hz ... 20,000 Hz).
- 5** **Q** - Adjusts the Q factor for the corresponding equaliser band (0.1 ... 10.0). In addition a low-shelf filter is available for equaliser band 1 and a high-shelf filter is available for equaliser band 10.
- 6** **GAIN** - Adjusts the gain for the corresponding equaliser band (-20 ... +10).

8.3.5 DELAY OVERVIEW



- 1** **Menu Item** - Indicates the currently selected menu item.
- 2** **DELAY TIME** - Adjusts the delay time in the selected **DELAY UNIT** **3**.
- 3** **DELAY UNIT** - Sets the unit for specifying the **DELAY TIME** **2** (**ms**: Milliseconds, **m**: Meter, **feet**)
- 4** **TEMPERATURE** - Sets the ambient temperature in the selected **TEMP. UNIT** **5**.
- 5** **TEMP. UNIT** - Sets the temperature unit for specifying the **TEMPERATURE** **4** (°C, °F).

8.3.6 SETTINGS OVERVIEW



- 1** **Menu Item** - Indicates the currently selected menu item.
- 2** **PIN LOCK** - Opens the PIN lock settings
- 3** **BLUETOOTH** - Toggles Bluetooth® on / off
- 4** **DISPLAY** - Opens the display settings
- 5** **FIRMWARE** - Opens the firmware information
- 6** **RESET** - Opens the reset options

8.4 MOBILE APP

8.4.1 ABOUT THE MAILA APP

Every **MAILA** device can be adjusted in detail and supplied with firmware updates wirelessly via the MAILA App.



Bluetooth® must be enabled in order to access **MAILA** devices via the MAILA App.

8.4.2 DOWNLOADING THE MOBILE APP FOR IPAD



Visit the Apple App Store to download the device app for advanced functionality and features.

8.4.3 UPDATING THE FIRMWARE

To check the firmware version installed on your device and perform a firmware update if necessary, use the **UPDATE MANAGER** in the MAILA App.

8.5 INPUT CONNECTIONS

8.5.1 CONNECTING AN INPUT SOURCE



CAUTION

High Sound Pressure Level

Risk of hearing damage

- a. Make sure that mute is activated before connecting an input source.
- b. Make sure that the input source volume is turned all the way down before connecting it.



NOTICE

High Sound Pressure Level

Damage to the loudspeaker

- a. Connect line level devices, such as mixing consoles, to the line input only.

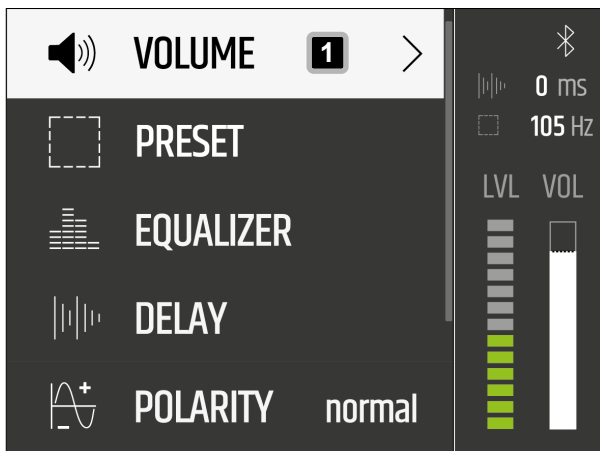
✓ 3-pin XLR cable

- 1 Turn down the input source volume.
- 2 Mute the device.
- 3 Connect the line input source to the **INPUT** socket.
- 4 Unmute the device.
- 5 Turn up the input source volume.

See also:
Holding for Mute [] 36]

8.6 AUDIO PLAYBACK

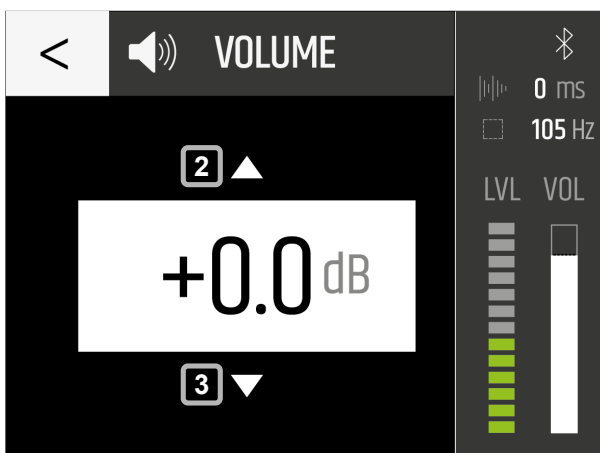
8.6.1 ADJUSTING THE VOLUME



1 Turn the **rotary-push encoder (RPE)** until **VOLUME 1** is highlighted.

2 Press the **RPE**.

⇒ The **VOLUME** screen appears.



3 Turn the **RPE** clockwise to increase the volume **2** and anticlockwise to decrease it **3**.

8.7 OUTPUT CONNECTIONS

8.7.1 THRU LINE OUTPUT

The balanced **THRU** line output of the **MAILA SUB 15** forwards the line input signal.

8.7.2 CONNECTING SUBWOOFERS

Find below how to connect 3 subwoofers. Apply the same principle to other configurations.

✓ 3-pin XLR cable(s)

- 1** Connect the **THRU** connector of the subwoofer connected to the input source to the **INPUT** connector of the second subwoofer.
- 2** Connect the **THRU** connector of the second subwoofer to the **INPUT** connector of the third subwoofer.

8.8 PRESETS

8.8.1 LOADING A PRESET



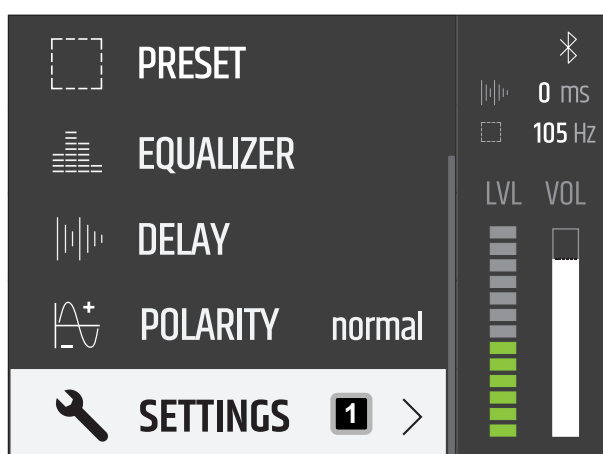
- 1 Turn the **rotary-push encoder (RPE)** until **PRESET** is highlighted. **1**
- 2 Press the **RPE**.



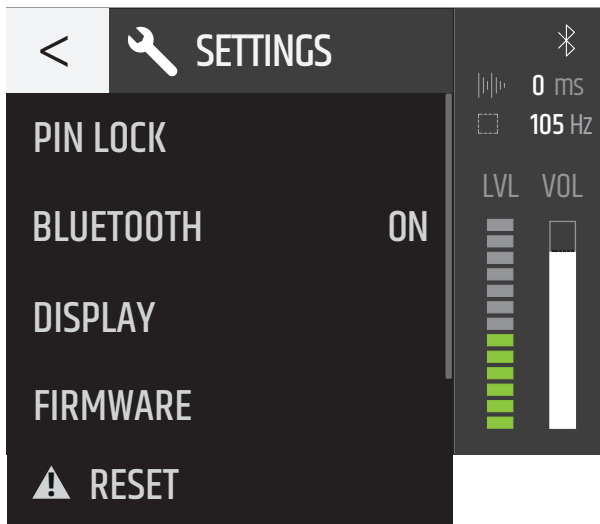
- ⇒ The **PRESET** screen appears.
- 3 Turn the **RPE** until the needed preset is highlighted.
 - 4 Press the **RPE** to confirm.
- ⇒ The preset is activated.

8.9 SYSTEM SETTINGS

8.9.1 ACCESSING THE SETTINGS MENU



- 1 Turn the **rotary-push encoder (RPE)** until **SETTINGS** is highlighted. **1**
- 2 Press the **RPE**.

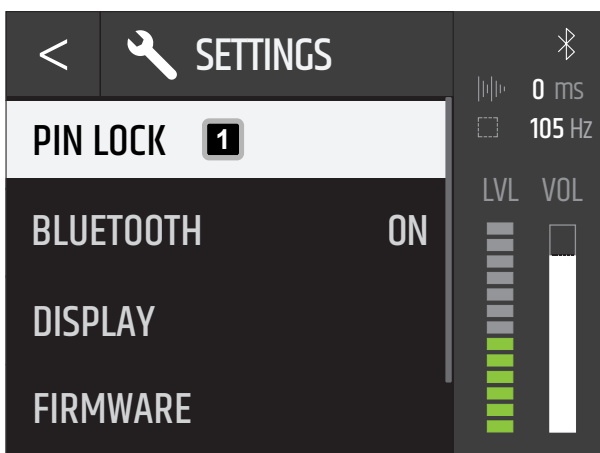


⇒ The **SETTINGS** menu appears.

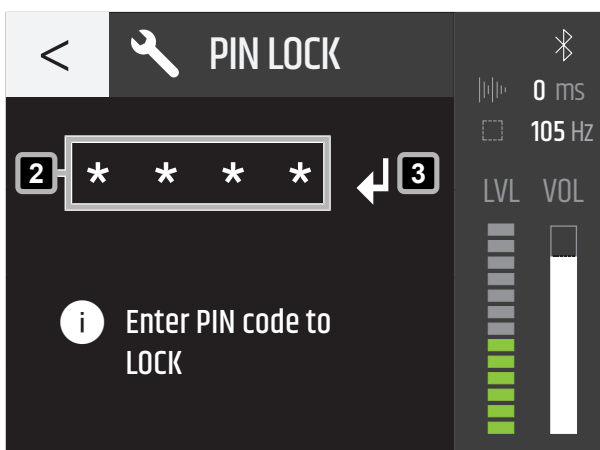
8.9.2 PIN LOCK

Protect the subwoofer from accidental and unauthorized operation by activating the **PIN LOCK**.

8.9.2.1 ACTIVATING PIN LOCK



- 1 In the **SETTINGS** menu turn the **rotary-push encoder (RPE)** until **PIN LOCK** is highlighted. **1**
- 2 Press the **RPE**.



⇒ The **PIN LOCK** screen appears.

- 3 Turn the **RPE** until the first ***** of the four digits **2** is highlighted.
- 4 Press the **RPE**.
- 5 Turn the **RPE** to change the digit (**0 ... 9**).
- 6 Press the **RPE** to confirm the digit.
⇒ The selection jumps to the next digit.
- 7 Repeat the steps above until you have entered and confirmed all 4 digits **2**.
⇒ The selection jumps on **4** **3**.
- 8 Press the **RPE** to confirm the PIN.

See also:

Accessing the SETTINGS Menu [45]

8.9.2.2 RESETTING PIN LOCK

- 1 Switch off the device.
- 2 Press and hold the **rotary-push encoder (RPE)** and switch on the device.
- 3 Hold the **RPE** until the device has booted up.
⇒ **PIN LOCK** has been reset.

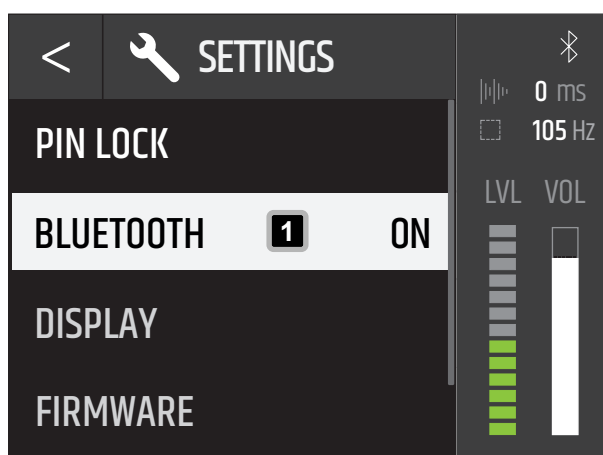
See also:

Accessing the SETTINGS Menu [45]

8.9.3 TURNING BLUETOOTH® ON / OFF



Bluetooth® must be enabled in order to access **MAILA** devices via the MAILA App.



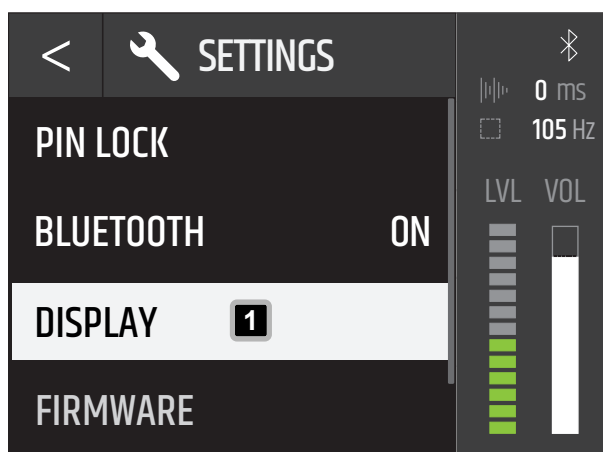
- 1 In the **SETTINGS** menu turn the **rotary-push encoder (RPE)** until **BLUETOOTH** is highlighted. **1**
- 2 Press the **RPE**.
- 3 Turn the **RPE** to toggle Bluetooth® **ON** or **OFF**.

See also:

Accessing the SETTINGS Menu [45]

8.9.4 DISPLAY SETTINGS

8.9.4.1 ACCESSING THE DISPLAY SETTINGS



- 1 In the **SETTINGS** menu turn the **rotary-push encoder (RPE)** until **DISPLAY** is highlighted. **1**
⇒ The **DISPLAY** screen appears.

8.9.4.2 SETTING THE DISPLAY BRIGHTNESS



- 1 In the **DISPLAY** screen turn the **rotary-push encoder (RPE)** until **BRIGHTNESS** is high-lighted. **1**
- 2 Press the **RPE**.
- 3 Turn the **RPE** to adjust the value between 10 % and 100 %.
- 4 Press the **RPE** to confirm.

See also:

Accessing the Display Settings [47]

8.9.4.3 ENABLING OR DISABLING THE SCREENSAVER

When the screensaver is activated, the display will switch off after about 1 minute off inactivity.



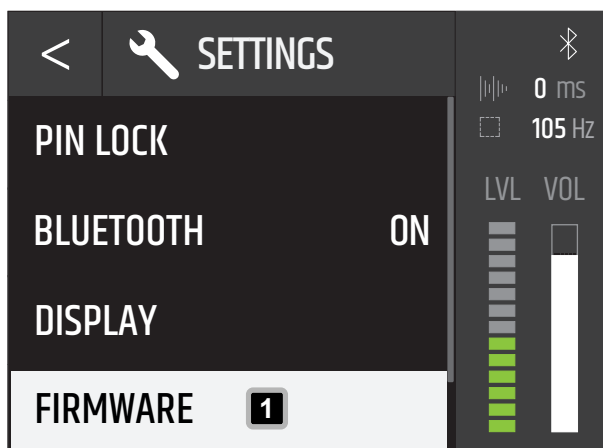
- 1 In the **DISPLAY** screen turn the **rotary-push encoder (RPE)** until **SCREENSAVER** is high-lighted. **1**
- 2 Press the **RPE**.
- 3 Turn the **RPE** to toggle the screensaver on or off (**active, inactive**).
- 4 Press the **RPE** to confirm.

See also:

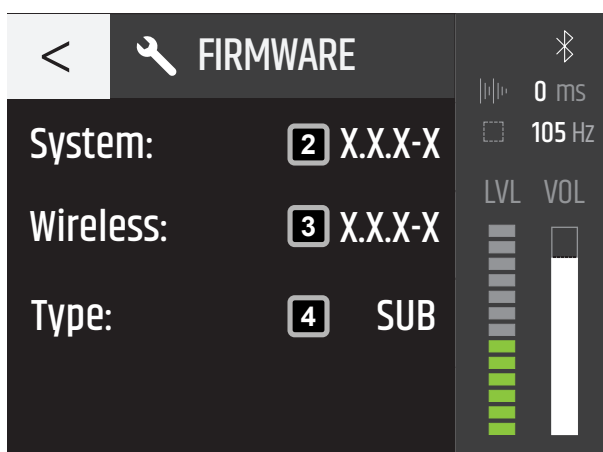
Accessing the Display Settings [47]

8.9.5 FIRMWARE INFORMATION

The **FIRMWARE** screen provides information about the version and the type of the used firmware.



- 1 In the **SETTINGS** menu turn the **rotary-push encoder (RPE)** until **FIRMWARE** is highlighted. **1**
- 2 Press the **RPE**.



⇒ The **FIRMWARE** screen appears.

- 2** Firmware version of the system
- 3** Firmware version of the wireless module
- 4** Type of firmware installed

See also:

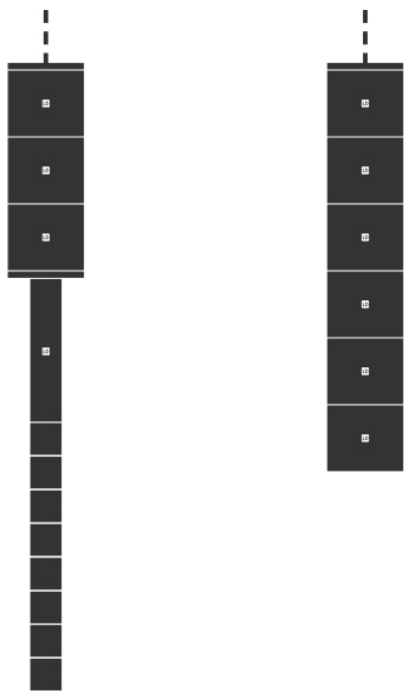
Accessing the SETTINGS Menu [45]

8.10

LOUDSPEAKER SETUPS

8.10.1

MAXIMUM RIGGING CONFIGURATIONS



The **MAILA SUB 15 FB** may be used to fly up to six subwoofers per hang or combined subwoofer and **MAILA** array configurations when used with compatible mounting components. The maximum permitted total load (ELL – Entertainment Load Limit) is 300 kg.

See also:
Optional Accessories [17]

8.10.2 MAXIMUM GROUND STACKING CONFIGURATIONS

To prevent speaker configurations from tipping over in ground stacking operation, observe the maximum permissible configurations.



The same maximum configurations applies when using multiple subwoofers.

8.10.2.1 MAXIMUM CONFIGURATION - MAILA SUB 15 WITH SPEAKER POLE

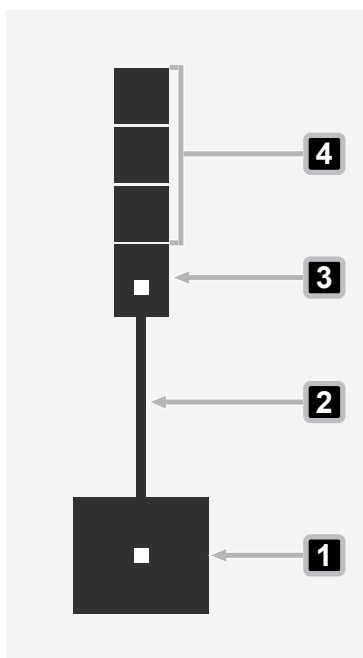


WARNING

Tipping object

Risk of serious injury

- Observe all regional safety regulations.
- Observe the maximum permissible configurations.
- Make sure that the device is securely positioned on a level surface.



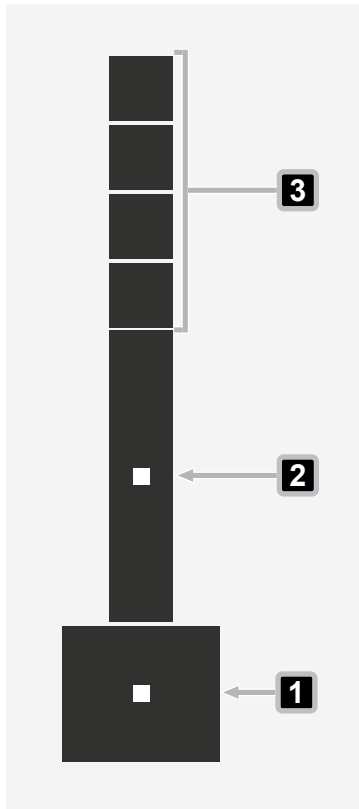
- 1** MAILA SUB 15
- 2** MAILA DB - Speaker pole for MAILA SPA
- 3** MAILA SPA
- 4** Maximum 3 × MAILA SAT

8.10.2.2 MAXIMUM CONFIGURATION - MAILA SUB 15 WITH MAILA COL

**Tipping object**

Risk of serious injury

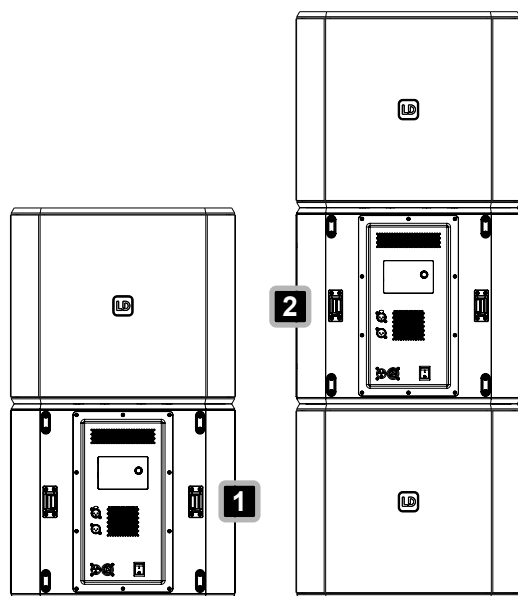
- a. Observe all regional safety regulations.
- b. Observe the maximum permissible configurations.
- c. Make sure that the device is securely positioned on a level surface.



- 1** MAILA SUB 15
- 2** MAILA COL
- 3** Maximum 4 × MAILA SAT

8.10.3 CARDIOID SUBWOOFER SETUP

8.10.3.1 CARDIOID SUBWOOFER CONFIGURATIONS



The **MAILA SUB 15** offers two options for a cardioid subwoofer configuration:

- When using 2 subwoofers, make sure the lower subwoofer **1** is oriented backwards.
- When using 3 subwoofers, make sure the middle subwoofer **2** is oriented backwards.

8.10.3.2 PRESETS FOR THE CARDIOID SETUP

Use the following presets for subwoofers in a cardioid subwoofer setup.

Front-facing subwoofer(s)	105 Hz System
Rear-facing subwoofer	105 Hz Cardioid

See also:
Loading a Preset [45]

9 MAINTENANCE

9.1 TROUBLESHOOTING

Problem	Cause	Solution
Input signal distorted	Defective device connected to the input	Test with another device whether the problem persists.
	Cable defective	Test with another cable whether the problem persists.
Longer or permanent illumination of the LIMIT LED	Input volume is too loud	Reduce the volume of the input device.
		Reduce the VOLUME level.
The PROT LED lights up and the subwoofer is automatically muted	The subwoofer is overloaded or overheating	After reaching normal operating conditions, the unit returns to the normal operating mode after a few minutes.

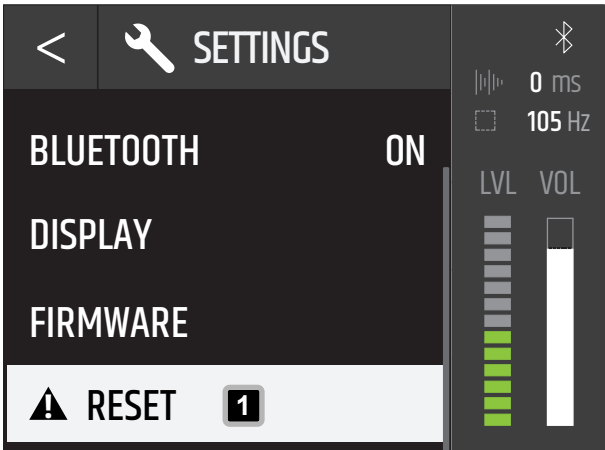
See also:
User Interface [20]
Adjusting the Volume [44]

9.2 RESETTING THE DEVICE

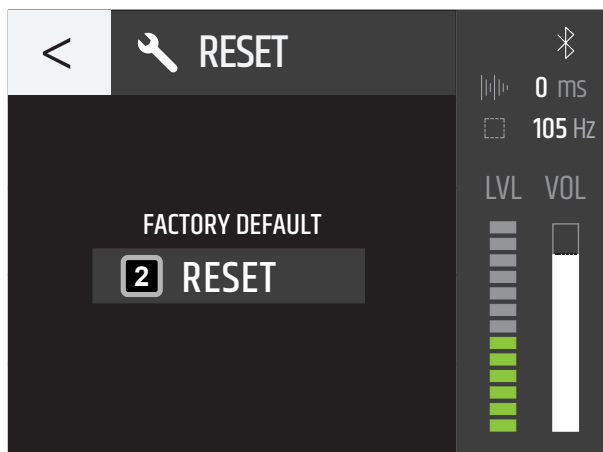


NOTICE

Loss of data
With the reset you will loose all your settings.
a. Only perform the reset if you are aware of the data loss.



- ✓ You want to reset the device and are aware of the data loss.
- 1 In the **SETTINGS** menu turn the **rotary-push encoder (RPE)** until **RESET** is highlighted. **1**



⇒ The **RESET** screen appears.

2 Turn the **rotary-push encoder (RPE)** until **RESET 2** is highlighted.

3 Press the **RPE**.

⇒ The factory reset is executed and the device restarts.

9.3

PRODUCT MAINTENANCE



CAUTION

Mains Voltage

Risk of electric shock

- Before you perform maintenance work on the device, disconnect the device from all poles.



NOTICE

Damage to the device and void of warranty

- Do not use cleaning agents, disinfectants, alcohol, or agents with abrasive effect for cleaning.

Carry out the maintenance measures listed below on a regular basis. The frequency of cleaning depends on the environment in which you use the product. Damp or dirty environments may cause increased soiling and wear.

VISUAL INSPECTION

Check the following points before operating the device.

- **⚠ WARNING! Risk of electric shock.** Check mains power cables for damage or material fatigue.
- Check all air inlets and outlets for damage, dust, or dirt deposits.
- Check all outside screws and covers for corrosion, damage or excessive wear.
- Check all connectors and rubber sealing caps for damage, dust, or dirt deposits.
- **⚠ WARNING! Risk of falling objects.** Check that all screws, fasteners, and rigging points are securely tightened.

CLEANING

- Clean the surface with a clean and damp lint-free cotton cloth. Wipe off all excess moisture.
- **! NOTICE! Do not use compressed air.** Clean any air inlets and outlets of dust and dirt deposits with a clean and damp lint-free cotton cloth.
- Clean all plug contacts from dust and dirt with a dry lint-free cotton cloth.

9.4

STORING THE DEVICE

Store the device only in a dry and clean environment. If you are storing the individual components of the device, use special protective covers, bags, and cases. Find such accessories for your product in the Adam Hall Shop (<https://www.adamhall.com/shop>).

10 DISPOSAL

10.1

PACKAGING DISPOSAL



1. You can feed the packaging into the reusable material cycle using the usual disposal methods.
2. Separate the packaging in accordance with the applicable disposal laws and recycling regulations in your country

10.2

DEVICE DISPOSAL



1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in the household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. Observe the applicable regulations in your country.
2. Observe all disposal laws applicable in your country.
3. As a private customer, you can obtain information on environmentally friendly disposal options from the seller of the product or the appropriate regional authorities.
4. Retailers are often legally obliged to take back items free of charge.
5. Old appliances that contain harmful substances are labelled with the symbol of a crossed-out dustbin.
6. Current information on the collection rate can be found at the following website:
<https://environment.ec.europa.eu/>. Search for the following term: waste-electrical-and-electronic-equipment-weee.

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