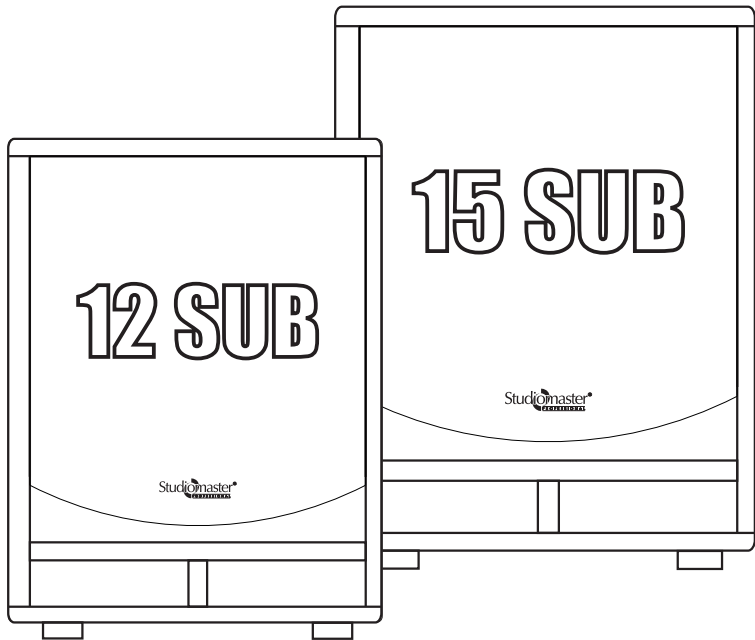


# StuDiomaster<sup>®</sup>

PROFESSIONAL

## A-12SUB/ A-15SUB



### Professional Speaker Active



- Thank you for purchasing the StudioMaster Professional Sub Woofer A Series Speaker Active.
- To ensure optimum performance and safety, please follow this instruction manual carefully.
- Please retain this manual for future reference.
- For any complaint, feedback or testimonials please contact our distributor / dealer.

#### **Index**

1. Warranty Information
2. Introduction
3. Features
4. Panel Description
5. Block Diagram
6. Linking Multiple A Series
7. Cable Connections
8. Suspended Mounting
9. Connector Details
10. Technical Specifications

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

### Explanation of Graphical Symbols




The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## IMPORTANT SAFETY INSTRUCTIONS

<p><b>WARNING</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.</p>
<p><b>IMPORTANT NOTICE</b> Connecting the Plug and Cord</p>
<p><b>WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT.</b> The wires in this mains lead are coloured in accordance with the following code:          GREEN: EARTH          BLUE: NEUTRAL          BROWN: LIVE</p> <p>As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:          The wire which is coloured GREEN must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN.          The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.          The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.</p>

- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10 Only use attachments/accessories specified by the manufacturer.
- 11 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 12 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13 Refer all servicing to qualified service personnel. Servicing in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 1 Read the instructions carefully.
- 2 Keep this instructions manual handy for reference.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.

## PRECAUTIONS FOR SAFE OPERATION

### WARNING

#### Installation

- Connect this unit's power cord only to an AC outlet of the type stated in this Owner's Manual or as marked on the unit. Failure to do so is a fire and electrical shock hazard.
- Do not allow water to enter this unit or allow the unit to become wet. Fire or electrical shock may result.
- Do not place a container with liquid or small metal objects on top of this unit. Liquid or metal objects inside this unit are a fire and electrical shock hazard.
- Do not place heavy objects, including this unit, on top of the power cord. A damaged power cord is a fire and electrical shock hazard. In particular, be careful not to place heavy objects on a power cord covered by a carpet.

#### Operation

- Do not scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard.
- Do not modify the unit. Doing so is a fire and electrical shock hazard.

- Do not remove the unit's cover. You could receive an electrical shock. If you think internal inspection, maintenance, or repair is necessary, contact your dealer.
- If lightning begins to occur, turn off the unit as soon as possible, and unplug the power cable from the electrical outlet.
- If there is a possibility of lightning, do not touch the power cable plug if it is still connected. Doing so may be an electrical shock hazard.

#### In case an abnormality occurs during operation

- Should this unit be dropped or the cabinet be damaged, turn the power switch off, remove the power plug from the AC outlet, & contact your dealer. If you continue using the unit without heeding this instruction, fire or electrical shock may result.
- If you notice any abnormality, such as smoke, odor, or noise, or if a foreign object or liquid gets inside the unit, turn it off immediately. Remove the power cord from the AC outlet. Consult your dealer for repair. Using the unit in this condition is a fire and electrical shock hazard.

# **1. Warranty Information**

## **Unpacking**

As part of our system of quality control, every Studiomaster Professional product is carefully inspected before leaving the factory to ensure flawless Product quality. After unpacking, please inspect for any physical damage. In the event that damage has occurred, immediately notify your Studiomaster Professional dealer.

Retain the cartons for future use should the product require servicing / maintenance.

## **2. Introduction**

The Sub Woofer "A" Series from Studiomaster Professional is compact Loudspeaker designed to deliver excellent sound even at extreme sound pressure levels.

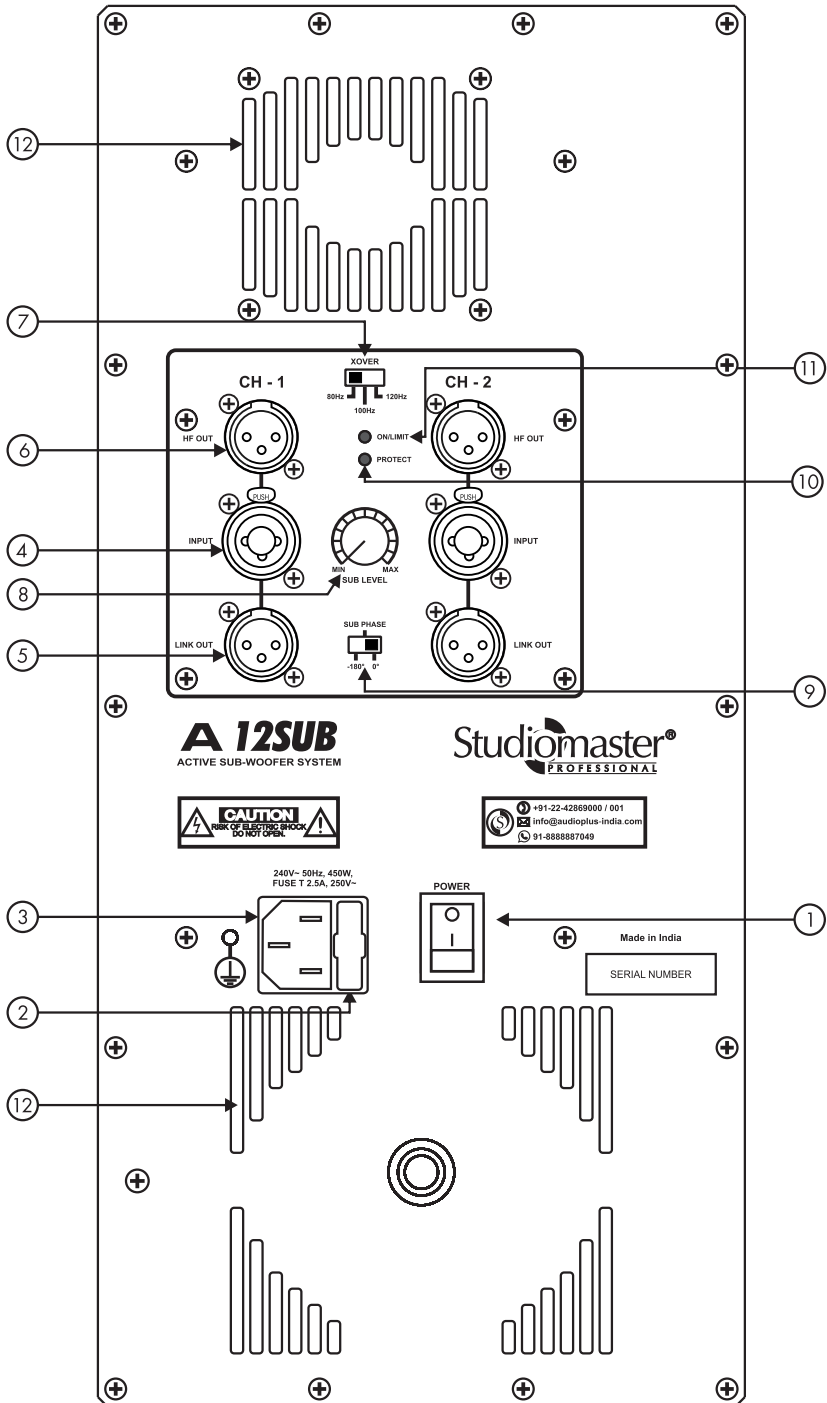
## **3. Features**

- 2 Line Inputs.
- Balance Input & HF Out on both CH1 & CH2.
- Built-in soft clip limiter.
- Link out to link to other speaker.
- Crossover frequency selection switch.
- Sub phase switching between -180° & 0°.

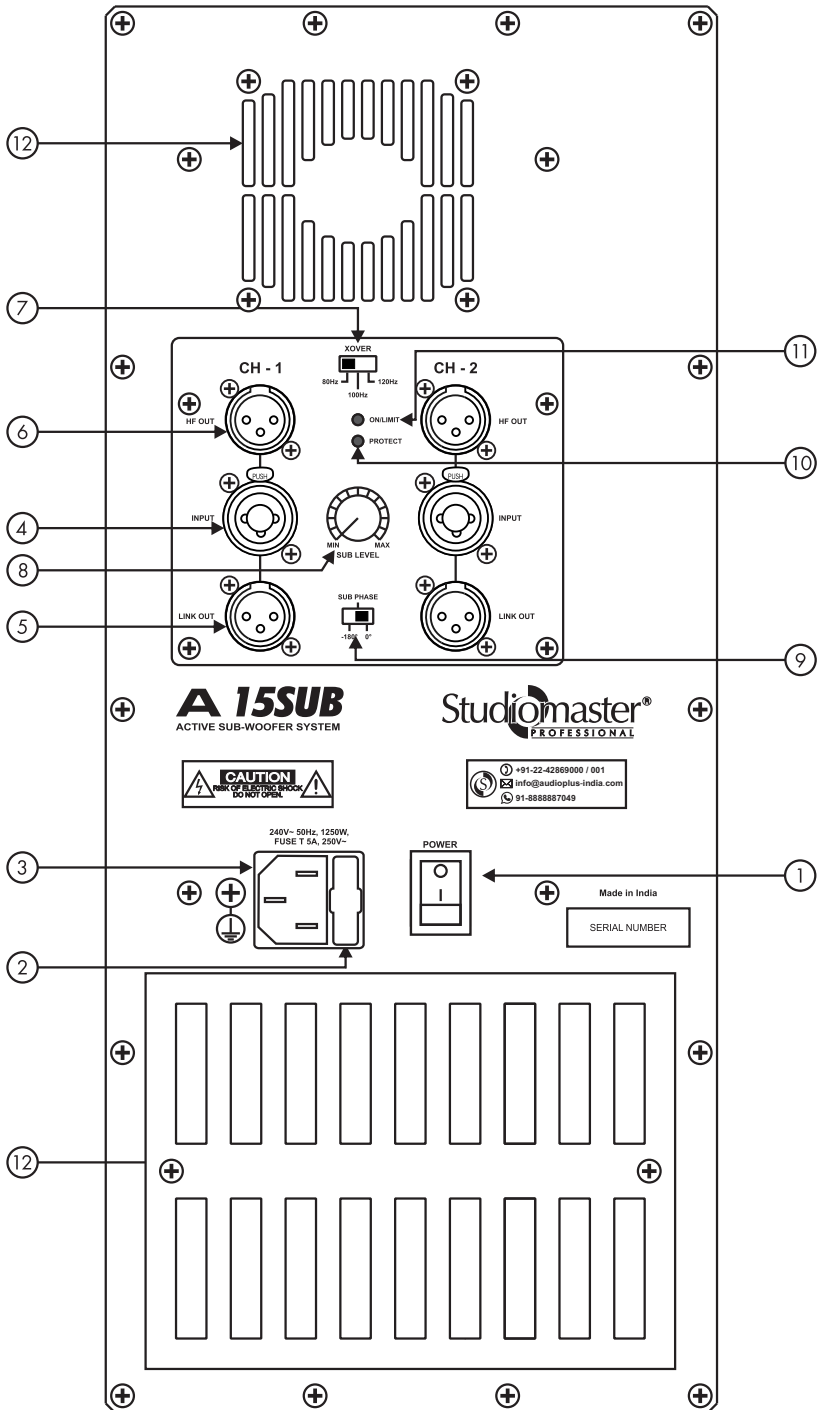
## **4. Panel Description**

- 1) **POWER SWITCH:** Used for switching the unit on and off.
- 2) **FUSE CARRIER "FUSE":** Mains fuse housing.
- 3) **POWER AC INLET SOCKET :** Used for connecting the power cable supplied with the speaker.
- 4) **Main Input Connectors (CH1 - CH2):** Main input connectors for connecting balanced or unbalanced audio sources. it is combi jack connector which accepts "XLR" sockets & also 1/4" jacks (6.3mm) also.
- 5) **"Link" Output Connectors (CH1 - CH2):** The "XLR" connectors connected in parallel with the inputs (4) can be used to send input audio signals to other A 15SUB or powered speakers.
- 6) **"HF Outputs" Output Connector (CH1 - CH2):** Internal crossover balanced outputs. These signals must be sent to other type amplified speakers. The crossover frequency can be selected by means of the XOVER switch (7).
- 7) **"Xover" Crossover Frequency Switch:** This 3-position switch permits selecting the crossover frequency [80Hz, 100Hz, 120Hz] between the subwoofer and the speakers connected to the HF outputs.
- 8) **"Sub Level" Volume Control:** This control regulates only the volume of the subwoofer.
- 9) **"Sub Phase" Switch:** This switch is used to change signal phase by 180°.
- 10) **"Protect" Indicator Light:** This Red Led indicator glow when amplifier goes in to protect mode. Amplifier has thermal output DC Voltage & short circuit protection.
- 11) **"LIMITER-PROTECTION" INDICATOR LIGHT:** The "LIMITER-PROTECTION" indicator light comes on red during start (for a few seconds) when the internal audio limiter operates. This avoids the amplifier's distortion and protects the loudspeakers against overload.
- 12) **Cooling Grille:** These grill permit cooling the amplifier during operation. Do not block accesses .  
To ensure correct air circulation, inside grill, there is air filter which can be removed and cleaned.

# Panel A 12SUB

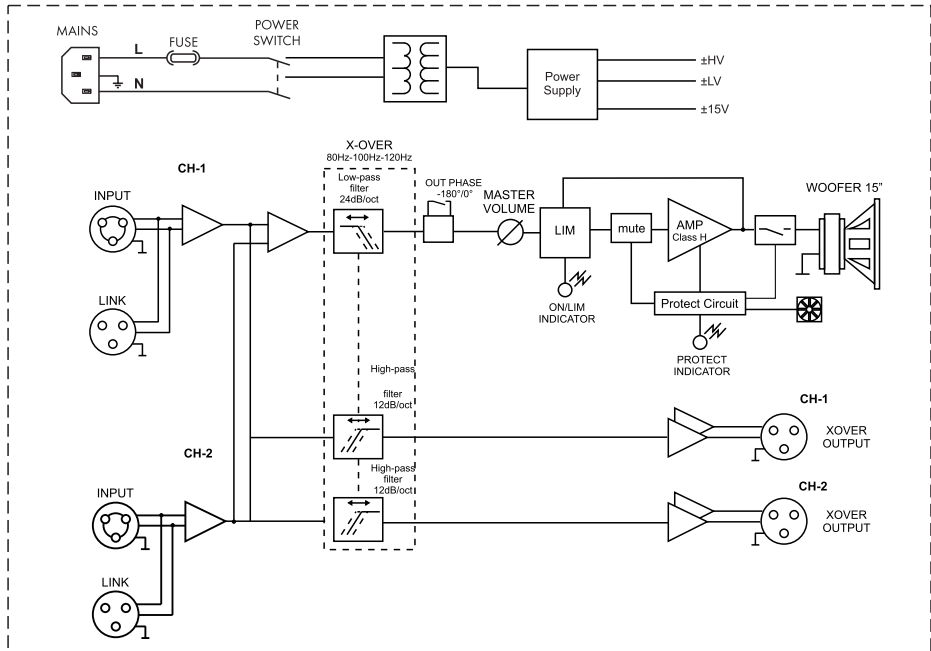


# Panel A 15SUB



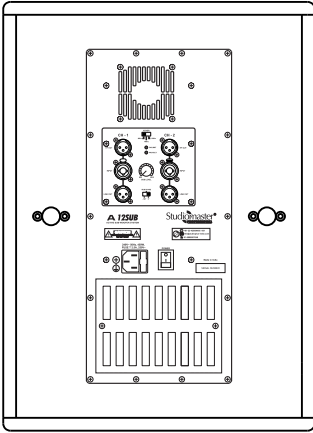
# Block Diagram

## A 12SUB & A 15SUB

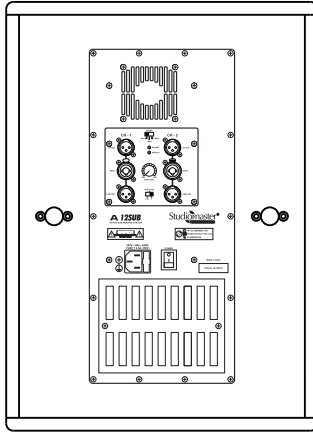


## 6. Linking Multiple A Series

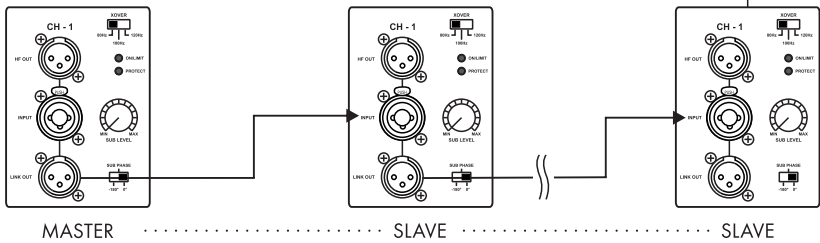
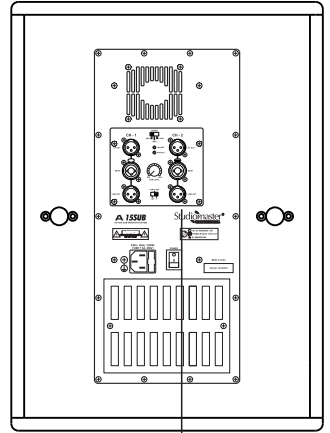
A12SUB



A12SUB



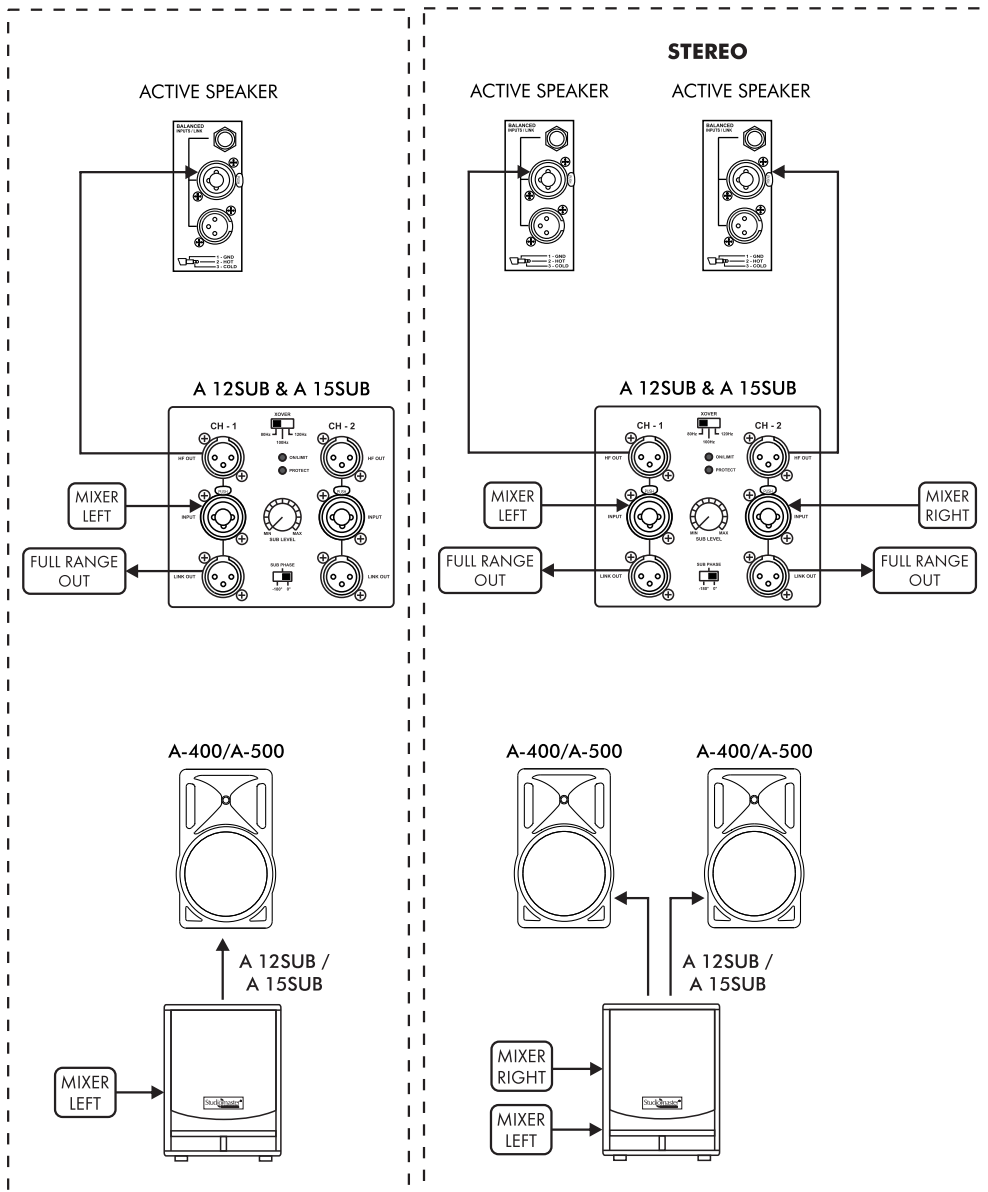
A15SUB



A 12SUB/A 15SUB can be connected in daisy chain as shown above.

- Connect the link output of first A 12SUB/A 15SUB amplifier to the input of other A 12SUB/A 15SUB amplifier & again the Line-out can be connected to the input of further amplifiers.
- Keep the volume control of cascaded amplifiers at maximum position.
- You can connect same models (A 12SUB & A 15SUB) in a daisy chain or in combination as per availability & requirement.

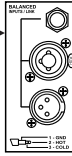
## 7. Cable Connections



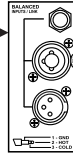


# MONOLINK

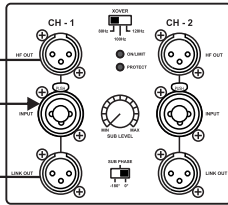
ACTIVE SPEAKER



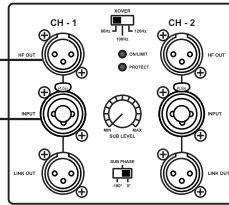
ACTIVE SPEAKER



A 12SUB & A 15SUB



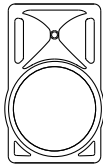
A 12SUB & A 15SUB



MIXER

MIXER

A-400/A-500

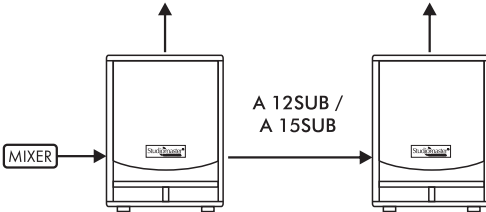


A-400/A-500

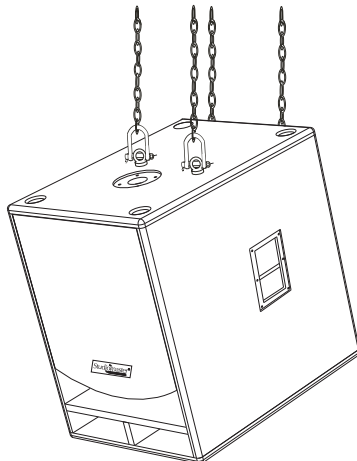
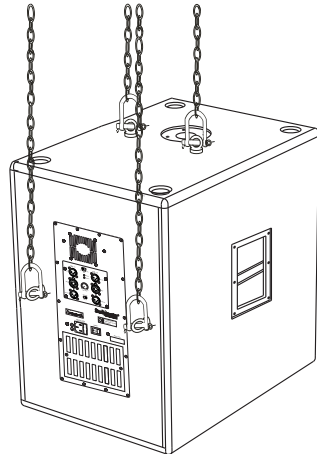
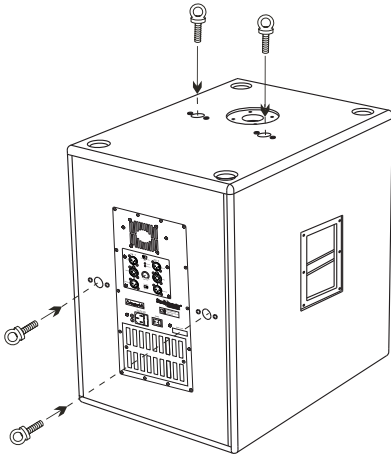
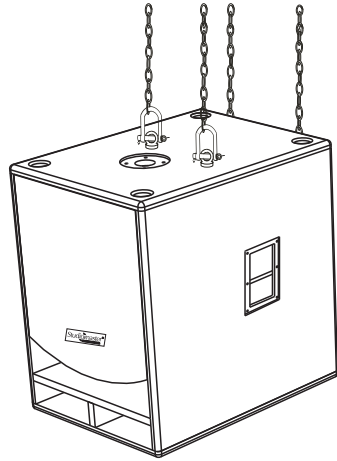
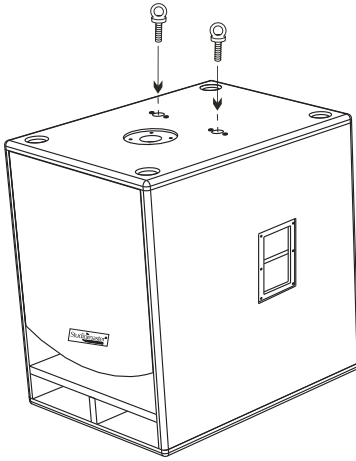


MIXER

A 12SUB /  
A 15SUB

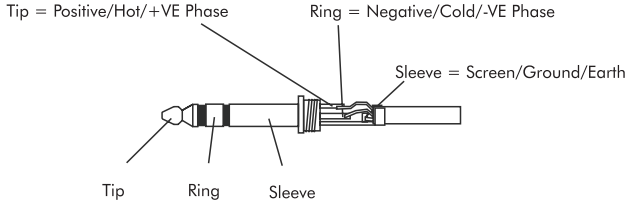


## 8. Suspended Mounting

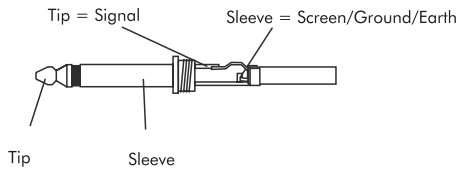


## 9. Connector Details

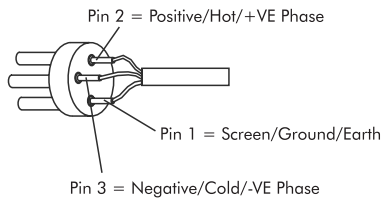
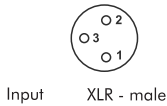
### Balanced use of stereo 1/4" jack plug



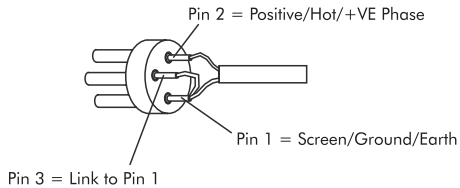
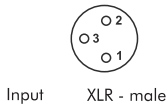
### Unbalanced use of stereo 1/4" jack plug



### Balanced use with XLR connectors



### Unbalanced use with XLR connectors



## 10. Technical Specifications

Models	A 12SUB	A 15SUB
System	Band Pass Active	
Amplifier Type	Class H	
RMS Power	400W LF	800W LF
Peak Power	800W LF	1600W LF
Frequency Response	40Hz - 150Hz	40Hz - 120Hz
Crossover	Ft 80Hz - 100Hz - 120Hz W 24dB/oct	Ft 80Hz - 100Hz - 120Hz W 24dB/oct
Max SPL	127 dB	133 dB
Transducer	1 woofer 12"	1 woofer 15"
Input sensitivity	-6dBu/±1dB (380mV±50mV)	
Impedance Input		
Balanced	> 20KΩ	
Unbalanced	> 10KΩ	
Power Supply	240V/50Hz	
Fuse	T 2.5A/250V	T 5A/250V
Dimension (WxDxH)	360 x 530 x 520	430 x 600 x 600
Net Weight	19.0 Kg	32.0 Kg

\* Design and specification are subject to change without notice

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