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# I. GETTING STARTED

## I.1. Important Safety Symbols



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

**ON**

Denotes the apparatus is turned on

**OFF**

Denotes the apparatus is turned off

**WARNING:** Describes precautions that should be observed to prevent the danger of injury or death to the operator.

**CAUTION:** Describes precautions that should be observed to prevent danger of the apparatus.

## I.2. Important Safety Instructions

- ▶ Read these instructions
- ▶ Keep these instructions
- ▶ Heed all warning
- ▶ Follow all instructions

### **WATER / MOISTURE**

This product is intended to indoor use only. To prevent risk of fire or shock, do not expose it to rain or moisture. Make sure there are no flammable, explosive or corrosive materials surrounded in 10 meters while operating.

## **HEAT**

The apparatus should be located away from heat sources such as radiators, stoves or other appliances that produce heat. It may carry high heat, do not aim at objective exceeding 2 minutes.

## **VENTILATION**

The unit must be installed in a location with adequate ventilation, at least 5m away from adjacent surfaces. Be sure that no ventilation slots are blocked.

## **OBJECT AND LIQUID ENTRY**

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

## **INSTALLATION**

Always secure speaker using a safety chain and carrying handles. Never carry the unit by its cord.

## **POWER CORD AND PLUG**

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two poles; a grounding-type plug has two poles and a third grounding terminal. The third prong is provided for your safety. If the provided plug does not fit into your outlet, refer to an electrician for replacement.

## **POWER SUPPLY**

Always make sure that you are connecting to the proper voltage and the line voltage not higher than stated on the decal or rear panel of the unit. Unplug this apparatus during lightning storms or when unused for long periods of time.

## **FUSE**

To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

## **ELECTRICAL CONNECTION**

Always disconnect from the power source before servicing or replacing fuse/lamp and be sure to replace with same fuse/lamp size and type. Cut off power before moving, repairing and cleaning the unit. Improper electrical wiring may invalidate the product warranty.

To avoid electric shock, all units must be connected to circuits with a suitable ground. Do not power on and power off the apparatus in a short time.

## **CLEANING**

Clean only with a dry cloth. Do not use any solvents such as benzol or alcohol.

## **SERVICING**

In case of failure or malfunction occurred, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Buy the same spare parts/components from manufacturer directly.

Any damage that caused by violating this manual is out of insurance, our company will not take the responsibility.

## **WARNING**

In case of lighting products, avoid direct eye exposure to the light source while it is on. In case of audio products, please remember the high sound pressure do not only temporarily damage your sense of hearing, but can also cause permanent damage. Be careful to select a suitable volume.

## **1.3. Before You Start**

### **1.3.1 UNPACKING**

Thank you for purchasing HYPER BASS Series active subwoofer. Each unit has been well tested and shipped in perfect operating conditions. Carefully unpack the carton and check the contents to ensure that all parts are present and in good conditions:


- 1 Loudspeaker
- 1 Power cable
- 1 User manual

If anything damaged during transport, notify the shipper immediately and keep packing material for inspection. Again, please save the carton and all the packing materials. If the unit must be returned to the manufacturer, it is important that the unit is returned in the original manufacturer's packing. Please do not take any action without first contacting us.

### **1.3.2 GETTING STARTED**

HYPER BASS Series subwoofer are part of a wider range of SOUNDSATION Pro Audio product line. These active subwoofers are compact, light weight and very easy to use. They are ideal for any live music or fixed installation purpose. Make sure there is enough space around the unit for proper ventilation and prevent overheating; do not place the unit on top of hot devices such as radiators or power amplifiers. The speaker is connected to mains through the supplied cable. The product meets the required safety standards. Blown fuses

must be replaced with fuses of the same type and specification.

 **Make sure that all units must be properly grounded. For your safety, you should never remove any ground connector from electrical devices or power cables, or make them inoperative.**

Our products are subject to a process of continual further development. Therefore modifications to the technical features remain subject to change without further notice.

## 2. SOUNDSATION HYPER TOP SERIES

HYPER series is the result of years of experience accumulated by SOUND-SATION in Portable Sound systems, a segment where quality, versatility and value for money are absolutely essential.

It consists of 5 two-way polypropylene active speakers with woofers from 6" to 15" - called HYPER TOP Series - and 3 bass-reflex active subwoofers from 1x12 "to 1x18" with birch plywood enclosures - called HYPER BASS Series.

The HYPER BASS series features 3 powered models with Class-D amplifiers - from 900W to 1200W - driving 12" to 18" high-performance woofers.

All models have got a sturdy, lightweight and stylish multiplex birch plywood enclosure with full metal grille and acoustic foam to protect the transducers inside and give a pleasant look. Furthermore, they feature a different number of recessed handles (from 1 on each side on 12" and 15" to two on each side on 18" model) and a standard M20 pole mount hole, in order to allow any fixed installation or portable applications as well as easily move them everywhere.

### 3.1. Connections

#### 3.1.1 MAINS CONNECTIONS

Connect the device to the mains with the power-plug. The wire corresponden-  
ce is as follow:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⊕

 **The earth must to be connected! Pay attention to the safety!**

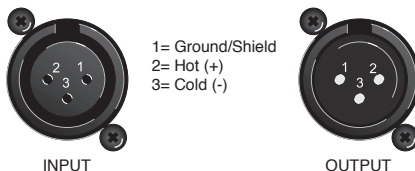
Before taking into operation for the first time, the installation has to be appro-  
ved by an expert.

#### 3.1.2 AUDIO CONNECTIONS

You will need several cables for the various connections to and from the  
speaker. See the pictures below that show the internal wiring of these cables.  
Be sure to use only high quality cables.

HYPER BASS speakers use balanced connections for both inputs and out-  
puts; you can, of course, also connect unbalanced equipment to balanced  
inputs by connecting pins 1 & 3 as shown below.

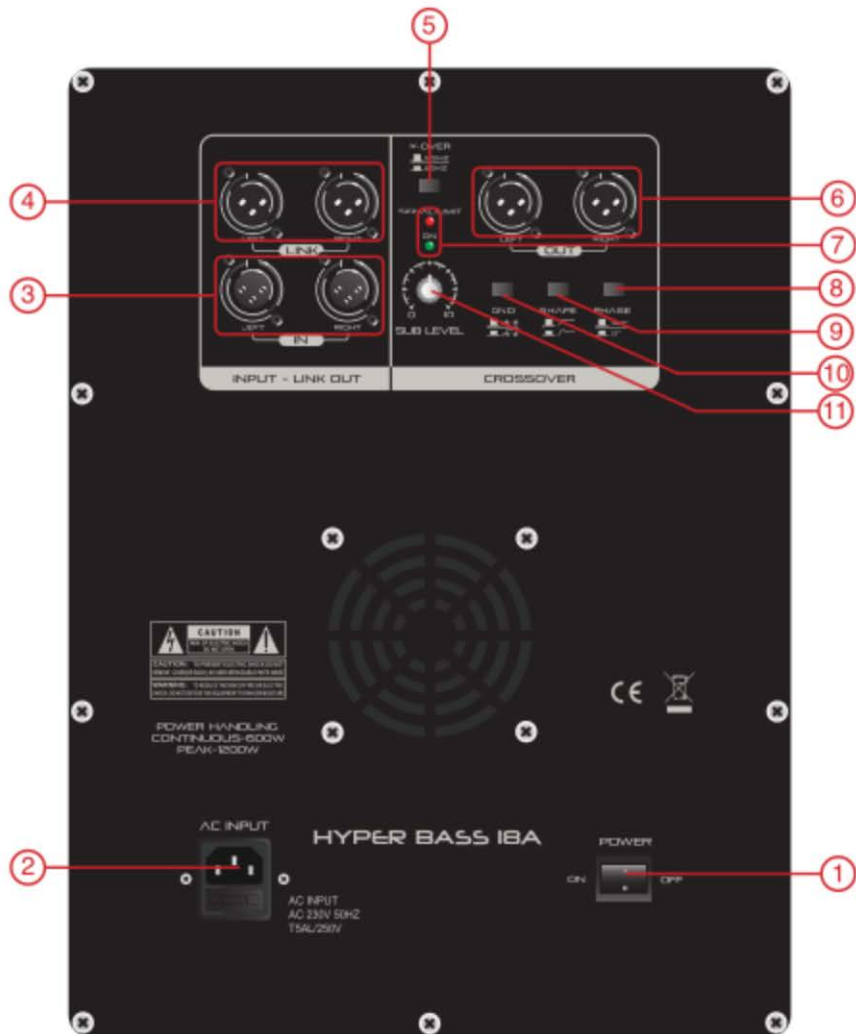
#### Balanced use of XLR connectors



In case of unbalanced use Pins 1 and 3 will be jumped

### 3.3. Rear Panel Description

HYPER BASS Series active subwoofers have several connectors, controls, and indicators the use of which you should understand.



#### 1) POWER SWITCH

Switch up to turn the speaker on, and switch down to turn it off. Make sure the level control is down before you turn it on.

## **2) IEC SOCKET WITH FUSE HOLDER**

Plug the linecord into an AC socket properly configured for your particular model. In case of fuse burn, to prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

 **Note: If you happen to lose the AC linecord, always use a three-pin plug with a ground pin.**

## **3) STEREO BALANCED LINE INPUTS**

This pair of female XLR-type connectors accept a balanced line-level signal. Connect these inputs to your mixer; do not connect dynamic or condenser microphones.

## **4) LINK OUTPUTS**

This is a pair male XLR-type connectors that route stereo input signals without affecting to the audio content. It is used to link the unit to another speaker or subwoofer.

## **5) X-OVER**

This switch toggles between 80Hz and 120Hz crossover frequency. It has to be set depending on speakers used for reproduction of mid-high frequencies. For speakers with 12" woofers or lower, it is normally set to 120Hz position; while in case of 15" it is normally set to 80Hz.


## **6) OUTPUTS**

This is a pair male XLR-type connectors containing filtered stereo signals. Connect them to a pair of full-range active speakers of a power amplifier in order to amplify the mid-high part of frequency range.

## **7) POWER AND CLIP INDICATORS**

When POWER switch is turned on, and linecord is connected to an active AC Mains supply, this POWER indicator is lit.

CLIP LED lights up only when the input signal is too high and limiter operates in order to prevent unwanted damage to amplifier or transducers.

 **NOTE: To better adjust levels and avoid limiter to intervene and cut signals, once connected the desired sound source slowly turn up MIC/LINE or LINE LEVEL controls until the desired volume is reached (and the CLIP light comes on occasionally). Always protect your ears if you are close when it is playing at high levels.**

## **8) PHASE**



This two-position switch turns the audio signal reproduced by the subwoofer by 180°. Phase rotation helps the optimization of low frequency reproduction even under the most difficult installation situations. After completing the installation, play a known track and press the button to get the best bass reproduction.

### 9) SHAPE

When pressed, this switch changes the impulse response of the subwoofer, making it punchy and thumping. It is suggested especially in DJ applications or with dance music.

### 10) GND

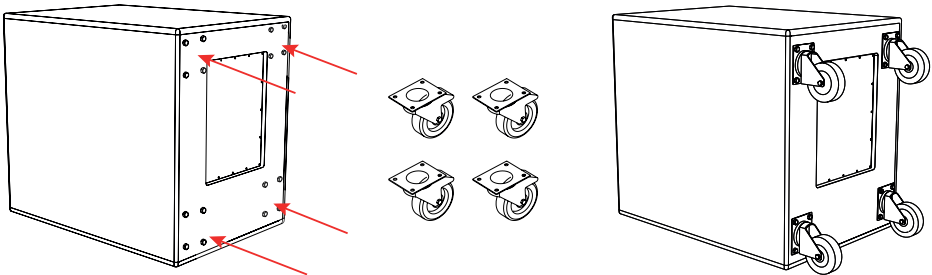
By leaving this switch un-pressed ( $\neq$ ) you can reduce or eliminate the interference which is sometimes caused by connecting signal lines between two or more pieces of equipment. It interrupts the ground line at some point. It is particularly effective at eliminating ground loops, but it may also increase or decrease noise from other sources.

### 11) SUB LEVEL

This knob adjusts subwoofer level.

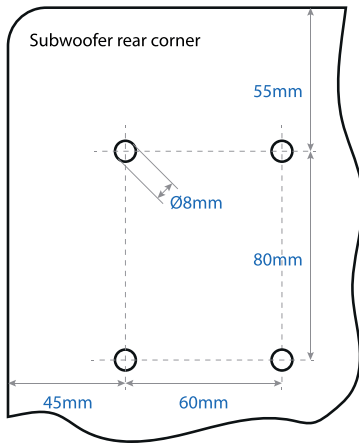
## 4. INSTALLING WHEELS ON HYPER BASS 15A / 18A

To facilitate the transport of 15" and 18" subwoofers, we predisposed 16 x M8 holes on the rear side for four wheels.



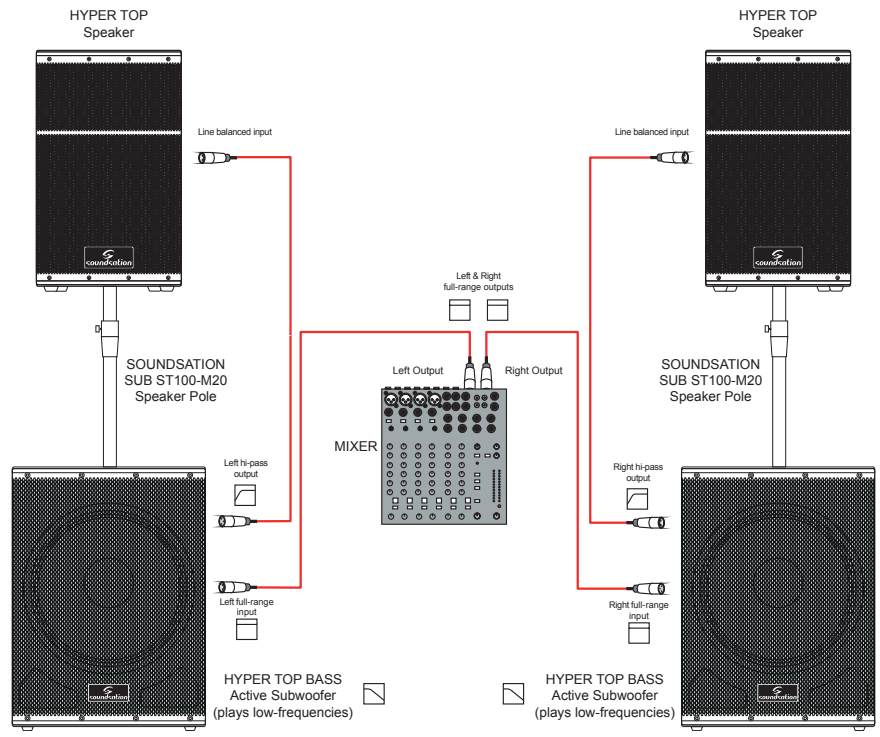
All holes comes with M8 drive-in nut. We suggest to use M8 x 30mm (at least) screws, hexagonal head with washer.

For further information on how to buy these wheels, please contact your nearest Soundsation dealer or refer to following picture to get them from your regular dealer.



## 5. WIRING DIAGRAM

Following a typical wiring scheme with one mixer, two tops and 2 subs.



## 6. SPECIFICATIONS

	<b>HYPER BASS12A</b>	<b>HYPER BASS15A</b>	<b>HYPER BASS18A</b>
Speaker Type	Bass-reflex Active Sub-woofer	Bass-reflex Active Sub-woofer	Bass-reflex Active Sub-woofer
<b>Acoustic Data</b>			
Frequency Resp. (-10 dB)	40 Hz - 150 Hz	35 Hz - 150 Hz	30 Hz - 150 Hz
Frequency Resp. (-3 dB)	50 Hz - 120 Hz	40 Hz - 120 Hz	35 Hz - 120 Hz
MAX SPL(1W@1m)	120 dB	124 dB	126 dB
Crossover	120 Hz (24dB/Octave)	120 Hz (24dB/Octave)	120 Hz (24dB/Octave)
LF	Woofer 12" (3" v.c.)	Woofer 15" (4" v.c.)	Woofer 18" (4" v.c.)
<b>Amplifier</b>			
Amp Class	CLass D	CLass D	Class D
Rated Power	450 W	600 W	600 W
Peak Power	900 W	1200 W	1200 W
Protection	RMS, Overload, Thermal	RMS, Overload, Thermal	RMS, Overload, Thermal
Input	XLR L + R Bal. Line Inputs	XLR L + R Bal. Line Inputs	XLR L + R Bal. Line Inputs
Output	XLR L + R Bal. Filtered Outs, XLR L + R Bal. Link Outs	XLR L + R Bal. Filtered Outs, XLR L + R Bal. Link Outs	XLR L + R Bal. Filtered Outs, XLR L + R Bal. Link Outs
<b>Controls</b>			
Level	Sub Level control	Sub Level control	Sub Level control
X-Over switch	80Hz - 120Hz	80Hz - 120Hz	80Hz - 120Hz
Other Controls	Phase 0° - 180°, Shape, Ground Lift On-Off	Phase 0° - 180°, Shape, Ground Lift On-Off	Phase 0° - 180°, Shape, Ground Lift On-Off
LED	Power On (Green), Signal (Green) / Limit (Red)	Power On (Green), Signal (Green) / Limit (Red)	Power On (Green), Signal (Green) / Limit (Red)
<b>Mains</b>			
Power Requirement	230Vac - 50 Hz	230Vac - 50 Hz	230Vac - 50 Hz
Power Consumption	500W	750W	750W
Power Switch	Yes	Yes	Yes
Connector	VDE	VDE	VDE
Fuse	T5AL - 250V	T5AL - 250V	T5AL - 250V
<b>Mechanics</b>			
Housing	Multiplex Birch plywood	Multiplex Birch plywood	Multiplex Birch plywood
Finish	Painted Black Finish	Painted Black Finish	Painted Black Finish
Grille	1.5mm Metal Grille	1.5mm Metal Grille	1.5mm Metal Grille
Handles	1 recessed handles on each side	1 recessed handles on each side	2 recessed handles on each side
Pole Mount	M20	M20	M20
Speaker Dim. (WxHxD)	420 x 520 x 474 mm	460 x 630 x 565 mm	543 x 678 x 620 mm
Packing Dim. (WxHxD)	490 x 580 x 540 mm	530 x 690 x 640 mm	630 x 750 x 690 mm
Net Weight	17 kg	29 kg	37 kg
Gross Weight	19 kg	31 kg	40 kg