

User's Manual

PS 5H/5HA



www.altoproaudio.com
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— English —

SAFETY INSTRUCTIONS



▲ "Electric discharge"

This symbol, alert you to the presence of uninsulated dangerous voltage inside the product enclosure, which constitutes a risk of electric shock.

▲ "Exclamatory point"

This symbol, alert the user to the presence of important operating and maintenance instructions in the owner's manual included to the product.



Disposing of this product should not be placed in municipal waste and should be Separate collection.

1. Read Instructions

All the safety and operation instructions should be read before using the product and retain them for future reference.

2. Water & Moisture

This product should not be used near water and will be protect from atmospheric agents in fixed or temporary installations.

3. Heat

This product should be situated away from heat sources such as radiators, or other devices which produce heat.

4. Liquid Entry

Care should be taken so that liquids are not spilled into the product and that objects do not fall on.

5. Service Assistance

This product should be serviced only by qualified service personnel when :

- a. Liquids has spilled or objects have fallen into this product, or
- b. This product has been exposed to rain, or
- c. This product does not appear to operate normally or exhibits change in performance, or has been dropped or its cabinet / chassis damaged.

6. Package

The package of this product has been tested, inspect the package before open, if any damage is found, notify to your dealer.

7. Hearing

This product produce high acoustic levels may cause permanent hearing loss, (SPL in for a defined period of time).

8. Installations

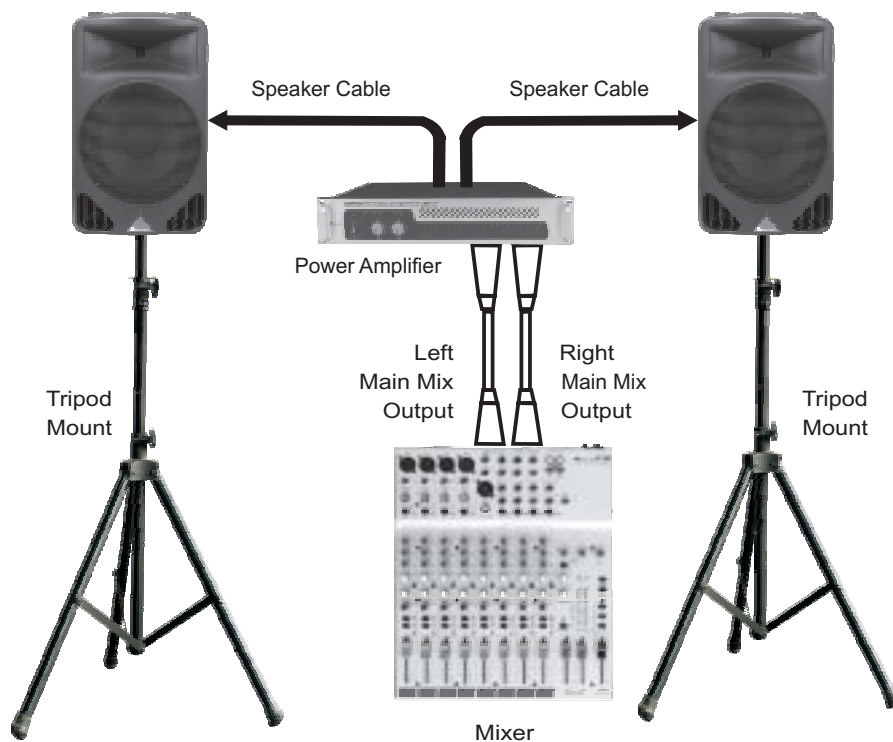
This product should be installed on the floor with a specific stand, according to the max weight, or in suspension with a five points included in the cabinet (M10 × 1.5PH Length 30mm).

The suspension of more speaker cabinet in a vertical array is NOT advised.

1. PS 5H PASSIVE SPEAKER CABINET QUICK START

Make all initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

- 1). Connect one side of the speaker cable to the output CHA/CHB or Binding Post of your stereo power amplifier and the other side to the input socket of your speaker cabinet.
- 2). Complete other connections as illustrated.
- 3). Turn on your mixer first, then the stereo power amplifier.
- 4). Turn up the volume controls of your amplifier to about 70%.
- 5). Use PFL function to get the proper input level for the mixer, and adjust the main mix level control to manipulate the output level.
- 6). After using, turn off your stereo power amplifier first, then the mixer.



- CONNECTION PLATE

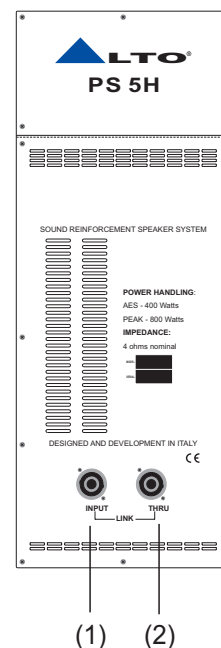
(1) INPUT

Receive the power coming from an external power amplifier.
(SPK +1/-1 connected; +2/-2 not connected)

(2) THRU

Direct LINK for connect in parallel a second speaker cabinet.
(SPK +1/-1 connected; +2/-2 not connected)

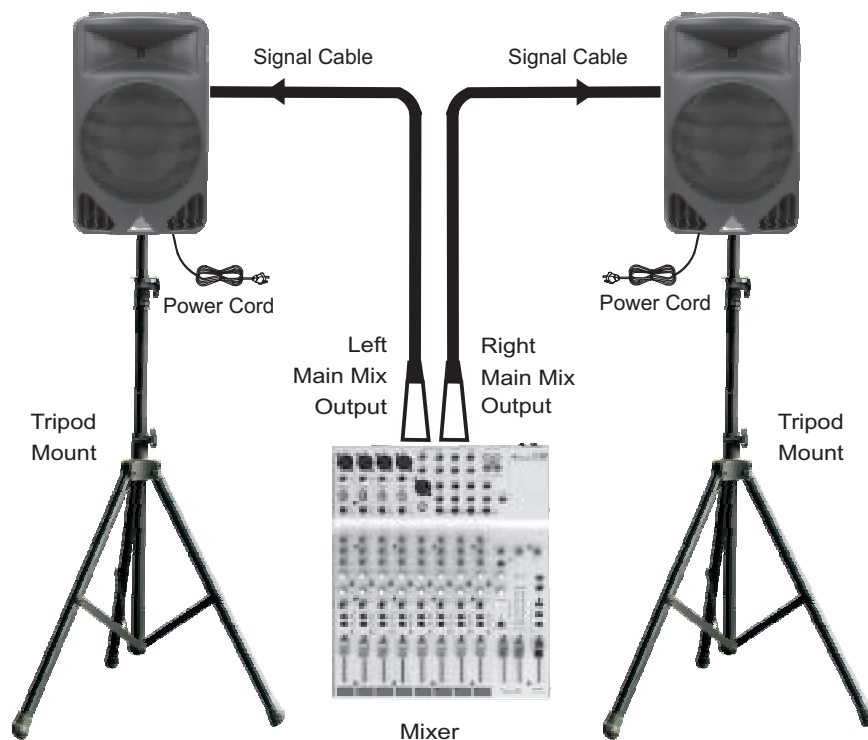
Besides, the passive crossover included the electronic protection on the driver.



2. PS 5HA ACTIVE SPEAKER CABINET QUICK START

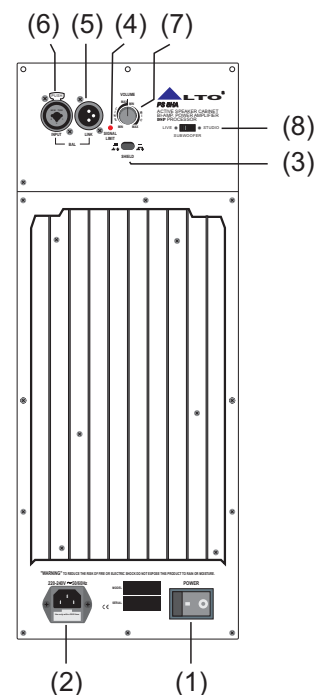
Make all initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

- 1). Connect one side of the signal cable at your audio mixer into output left /right (with Stereo-Jack or XLR) and the other side of the cable into the line input (COMBO) of your active speaker cabinet (with Stereo-Jack or XLR).
- 2). Connect the power cord to mains.
- 3). Turn on your mixer first, then the active speaker cabinets.
- 4). Turn up the volume control of the active speaker cabinets.
- 5). The PS 5HA is supplied with 3 presets, select your favourite between LIVE - SUBWOOFER - STUDIO. STUDIO preset is extremely flat with a natural bass response, like a studio monitor. LIVE is the default preset with 6dB bass boost. The SUBWOOFER preset is perfect for matching PS 5HA with an SR500SA subwoofer.
- 6). After using, turn off your active speaker cabinets first, then the mixer.



- CONNECTION PLATE

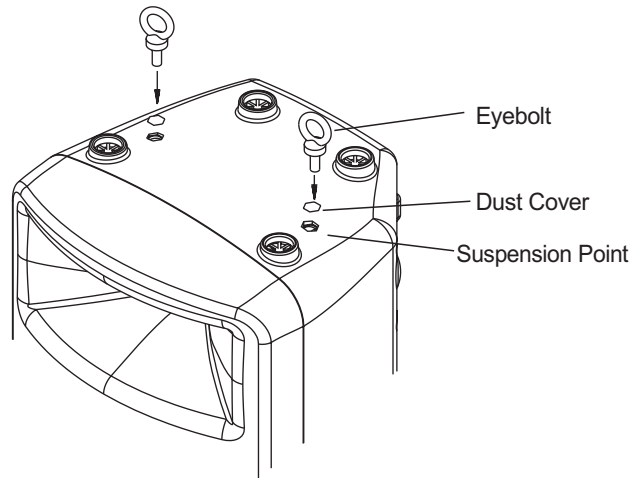
- (1) BI-POLAR MAIN POWER SWITCH
- (2) AC POWER SOCKET WITH MAIN FUSE
- (3) GROUND SWITCH
- (4) SIGNAL LIMIT, GREEN/RED LED
- (5) LINK OUT ON XLR CONNECTOR
- (6) LINE /MIC INPUT ON COMBO CONNECTOR
- (7) MAIN VOLUME CONTROL
- (8) PRESETS SELECTOR FOR LIVE - SUBWOOFER - STUDIO



3. SUSPENSION POINT

The PS 5H/5HA speaker cabinet also provides the suspension points for fixed installation. How to use them?

First, open the dust covers, and the next, mount the flying rings to the suspension points (M10x1.5PH LENGTH: 30mm).
For further details, please refer to the right illustration.



4. TECHNICAL SPECIFICATIONS

Descriptions	PS 5H
System type	2 - way vented box
Continuos Power	400Watt AES Standard
Peak Power Rating	800Watt Peak
Sensitivity at 1W, 1mt	98dB SPL
Max SPL at 1mt	123dB SPL
Frequency Response	55Hz / 20kHz +/-10dB
Impedance	8 or 4ohm nominal
Crossover Frequency	2000Hz at 12dB/Oct
Lower - Frequency	15" / 385mm - 3" voice coil
High - Frequency	1" Comp. Driver - 1.75 voice coil
High Frequency Protection	Electronic Dynamic Protection
Dimensions HxWxD	660mm x396 mm x415 mm (25.98" x 15.59" x 16.34")
Net Weight kg/lbs	24.40kg / 53.79lbs
Gross Weight lbs/kg	30.13kg / 66.43lbs
Shipping Volume	6.72CFT

The AES 2 - 1984 Standard specification by Audio Engineering Society, is representative and commonly used for the measure in Professional Sound Reinforcement.

It is defined as the square of the RMS voltage generated with a pre-defined and band-passed Pink Noise Signal, applied continuously for 2 hours, on the assembled speaker cabinet.

In this way, the declared power of ALTO passive speaker cabinet, is comparable to the RMS voltage value, measured on the equivalent power amplifier for the same value of impedance.

Descriptions	PS 5HA
Powered System type	Bi-Amp. with DSP processor
Total Output Power	284W RMS @8Ohm 453W RMS @4Ohm
LOW Output Power	232W RMS @8Ohm Class H 364W RMS @4Ohm Class H
HIGH Output Power	52W RMS @4Ohm Class AB 89W RMS @4Ohm Class AB
Max SPL at 1m	124dB SPL
Frequency Response	50Hz / 20kHz +/-10dB
Impedance Low - High	Low 40hm - High 80hm
Crossover Frequency	2000Hz - DSP Processor
Protection Low - High	DSP Lim./Comp. each section
Digital Presets	LIVE - SUBWOOFER - STUDIO
Low - Frequency	15" / 385mm - 3" voice coil
High - Frequency	1" Comp. Driver - 1.75 voice coil
Horn Coverage H° x V°	90° H x 45° V
Input Sensitivity	Line + 4dB / 1.23V
Input Impedance	30kohms Balanced - 15kohms Unbalanced
Connectors	Input with Jack / Link with XLR
Plastic Reinforced Cabinet	Trapezoidal & Monitor shape
Hardware Suspension	Six suspension points
Amplifier Protections	Soft Start - Short Circuit - DC voltage - Thermal Protection
External Control	Mic/Line Volume - Preset switch - LED Clip - Ground switch
Power Supply	230Volt / 115Volt - 50Hz / 60Hz
Dimensions HxWxD	660mm x396 mm x415 mm (25.98" x 15.59" x 16.34")
Net Weight kg/lbs	29.3kg / 64.59lbs
Gross Weight lbs/kg	35.03kg / 77.23lbs
Shipping Volume	6.72CFT

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