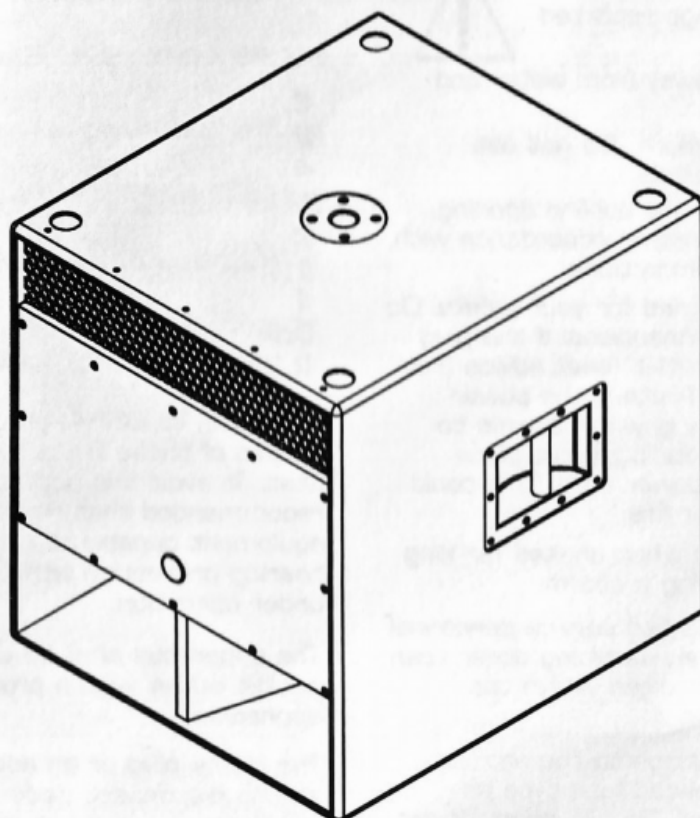


INVO TONE

USER'S MANUAL

ASX18S

PASSIVE BANDPASS SUBWOOFER



IMPORTANT SAFETY INSTRUCTION



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

 This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

 This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

⊕ Protective Ground Terminal

~ AC mains (Alternating Current)

⚡ Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol. 
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart / equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to \ extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level.

These are shown in the following chart:

HOURS X DAY	SPL	EXAMPLE
8	90	Small gig
6	92	train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1,5	102	
1	105	
0,5	110	
0,25 or less	115	Rock concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

IN THIS MANUAL

1. INTRODUCTION	3
2. QUICK START - PASSIVE SPEAKER	4
3. CONNECTIONS	5
4. WIRE CONNECTIONS	6
5. TECHNICAL SPECIFICATION	7

1. INTRODUCTION

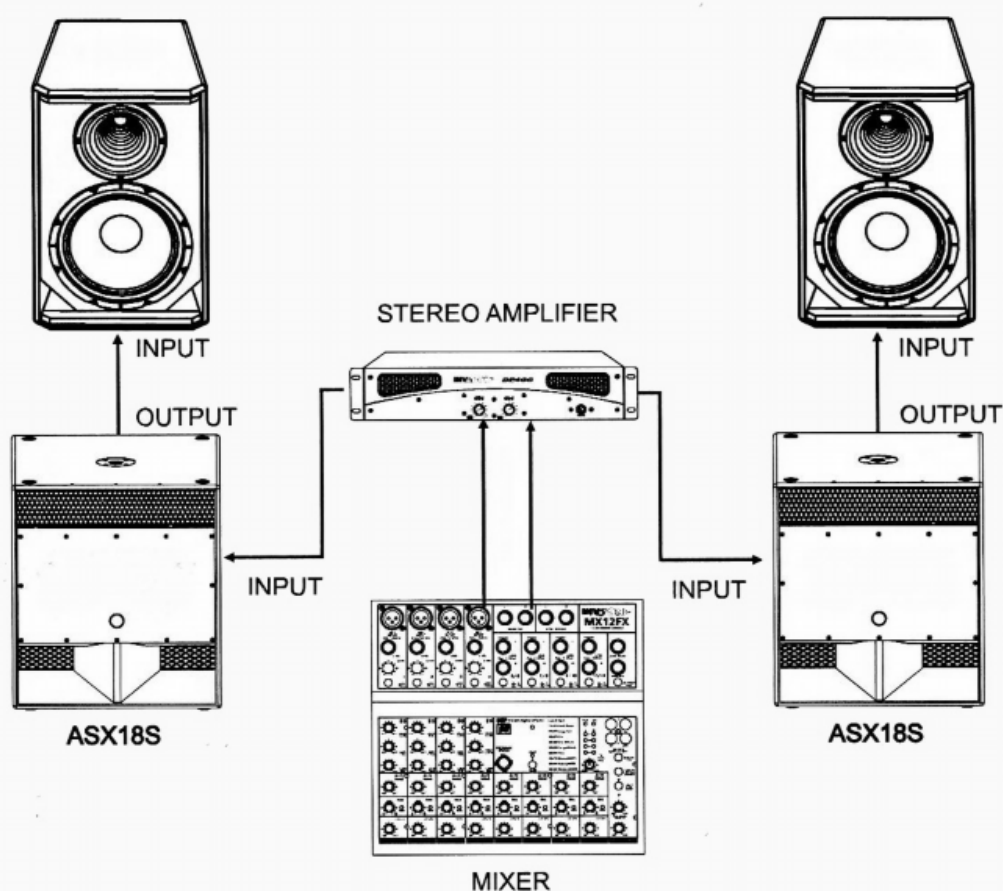
Thank you for your purchasing one of our AS series enclosures. It is just one of the many INVOTONE products that a talented, multinational Team of Audio Engineers and Musicians have developed with their great passion for music. Your ASX18S speaker cabinet is capable of very high sound pressure level and it has been created to give you a performance that is better than any other loudspeaker in this range. They are flexible in their configurations and can be used with single and multiple subwoofers.

Enjoy your ASX18S speaker and make sure to read this Manual carefully before operation!

2. QUICK START - PASSIVE SPEAKER CABINETS

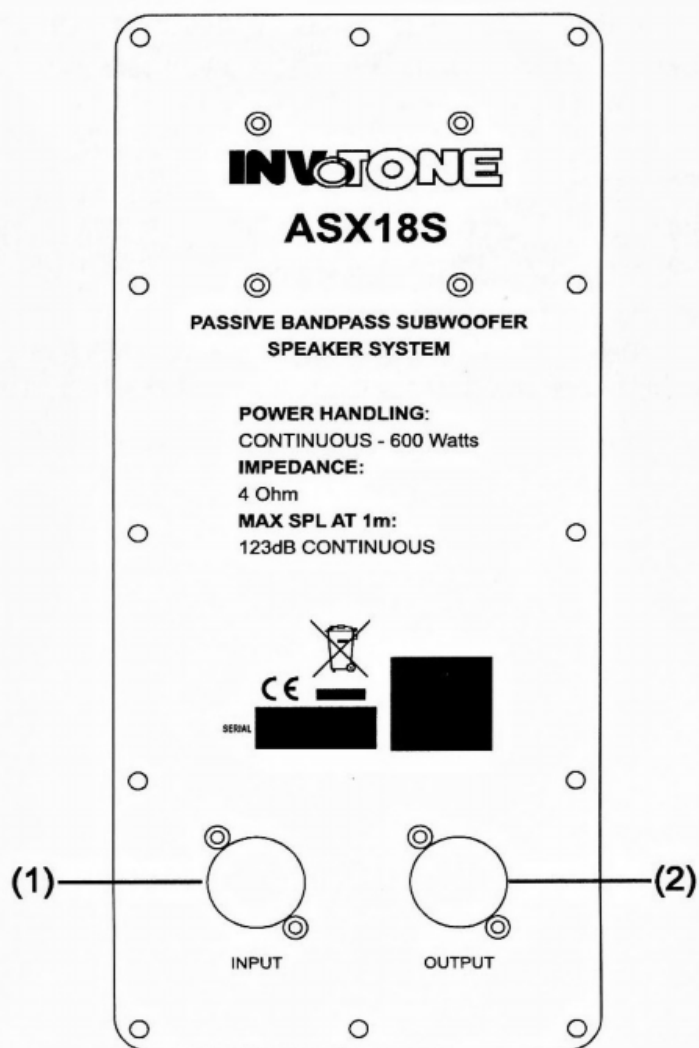
Passive two subwoofers and two satellite speakers. With this example, the stereo amplifier drives both the subwoofers and the satellites. In this case we do not call them full-range anymore because they receive a signal from the subwoofer that is already covered at 180Hz. In this way, the high energetic content of the low frequencies is limited to the subwoofer and the satellite's woofer act like a mid-woofer.

- 1). Connect one side of 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 subwoofer, with the second speaker cable connect the Output of the subwoofer to the Input of satellite.
- 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 use, turn off your stereo power amplifier first, then the mixer.



3. CONNECTIONS

PASSIVE BANDPASS SUBWOOFER: ASX18S



(1) INPUT: Receive the power coming from an external power amplifier.

(SPK +1/-1 connected; +2/-2 not connected).

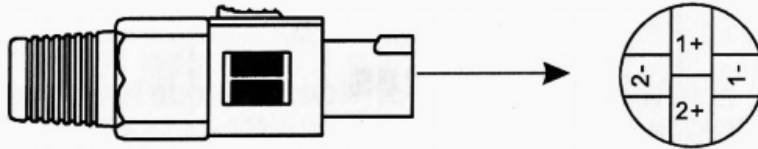
(2) OUTPUT: Power output for satellite speaker, under passive crossover filtered at 180 Hz.

(SPK +1/-1 connected; +2/-2 not connected).

4. WIRE CONNECTIONS

- For Passive Speaker Cabinets

Please only use the power connectors to make connections with other signal source equipment for the passive speaker cabinets. The power connector has four terminals: 1+, 1-, 2+, 2-.



In our cabinets, only 1+/1- are used to connect the Speaker+/Speaker-, and 2+/2- are not used.

5. TECHNICAL SPECIFICATION

ASX18S	
System Type	Passive Bandpass Subwoofer
Impedance Low	4 Ohm
Speaker	18" Ferrite woofer / 3" Voice coil with long excursion
Frequency Response (-10dB)	36Hz-180Hz
Maximum SPL at 1m	123dB Continuous / 126dB Peak
Power System	600Watts RMS
Connectors	2 x SPK4 @Power Input / Output
Enclosure Construction	Plywood cabinet, Metal handles, Resistant black paint, Metal grille and Rubber feet
Mounting	One standard metal pole-mount plus two metal handles
Dimensions (HxWxD)	779mm x 698mm x 752mm (30.7" x 27.5" x 29.6")
Net Weight	36.9kg / 81.3 lbs
Shipping Weight	44.1kg / 97.2 lbs