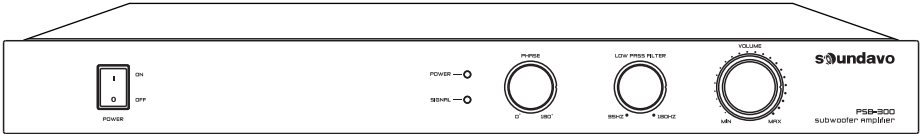




PSB-300

SUBWOOFER
AMPLIFIER



DEAR CUSTOMER


Thank you for purchased **Soundavo** product. Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

WARNING



- 1. Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- 2. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.
- 3. Do not install near any source of heat, including other units that may produce heat.
- 4. Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight
- 5. Do not touch the device, the power cord, or any other connected cables with wet hands.
- 6. This device ventilates excessive heat through the slots and openings in the case. Do not block or cover these openings. Ensure that the device is in an open area where it can get sufficient airflow to keep from overheating.
- 7. Only clean unit with a dry cloth.
- 8. Unplug unit during lightning storms or when not used for an extended period of time.
- 9. Protect the power cord from being walked on or pinched, particularly at the plugs.
- 10. Use unit only with accessories specified by the manufacturer.
- 11. Refer all servicing to qualified personnel.

CAUTION

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.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



INSTALLATION

Please use Diagram 1. to familiarize yourself the amplifiers rear panel.

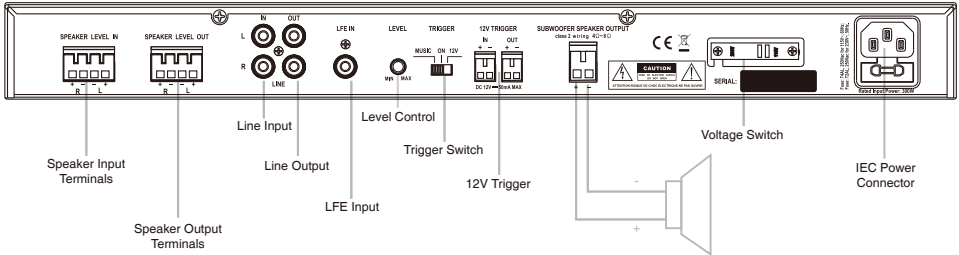


Diagram 1
Amplifier Rear Panel

INSTALLATION

1. Connecting the Subwoofer to the Amplifier

CAUTION: Only make connections when the amplifier power is off.

There are two output terminals on the back of the amplifier, one positive and one negative. (Diagram 1). 3 way binding post output terminals allow for a variety of ways to connect a subwoofer to the amplifier, including stripped wire, spade connectors, etc. Subwoofer must be connected with a minimum of 14-gauge speaker wire. Be sure all connections are secure.

2. Connecting the Audio Inputs

CAUTION: To avoid possible damage to the Amplifier or Subwoofer, only make connections when the amplifier is turned off.

LFE (Low Frequency Effects) Input - If your preamplifier or receiver has a Sub output or LFE output you can connect it to the LFE input. Be aware that using the LFE input bypasses the PSB-300 low frequency (low pass) crossover.

Line Level Inputs (Left & Right) - The line outputs from a preamplifier or receiver can be connected to the line level inputs of the PSB-300 amplifier with RCA cables. If the line level signal is also required by other equipment, you can connect the line level outs to another device. (See the Line Level Outputs section below.)

Speaker Level Inputs (Left & Right) - These inputs can be used if your receiver does not have a subwoofer output or a set of amplifier line level output jacks. Be sure to observe proper polarity, connect the left and right pair of main speaker output wires from your amplifier or receiver to the speaker level input terminals of the PSB-300 amplifier. Then connect a left and right pair of speaker wires from the PSB-300 amplifiers speaker level output to your main speaker terminals. (See Speaker Level Output Section below)

3. Connecting the Audio Outputs (optional)

Line Level Outputs (Left & Right) - Sources connected to the line level inputs can be forwarded to other receivers or amplifiers line level inputs. By doing this you can pass-on the audio signal for use by another component. Connect RCA cables to the line level output sections of the PSB-300 and the line level inputs of a receiver or amplifier.

Speaker Level Outputs (Left & Right) - Connect a left and right pair of speaker wires from the PSB-300 speaker output terminals to your main speakers. The main speakers will still be powered by your systems receiver or amplifier.

4. Dual Voltage Switch

(See Diagram 2) For use in the U.S., The PSB-300 comes preset from the factory at 115V. For use in other countries, the voltage switch may need to be changed to 230V. (Please note that a plug adapter or alternate power cord may be required.)



Diagram 2
Voltage Switch

OPERATION

Please use diagrams 1 & 3 to familiarize yourself with the front and rear panels of the PSB-300.

CAUTION: Please read all of the following instructions to prevent causing damage to your system.

FRONT PANEL CONTROLS

• Power Switch

The switch marked “power” on the front panel of the amplifier will turn off all amplifier circuitry including Auto Sense circuitry.

• Volume Controls

Use this to match the output level of the subwoofer to that of the main speakers in the system. We recommend that you play a variety of material before selecting a setting. Start with the control turned completely counterclockwise (off) and slowly turn it up. **NOTE:** Turning the volume up slowly will prevent possible damage to the woofer from the system being run too “hot”. Very little movement of the knob is needed.

CAUTION: If a popping sound (clipping) is audible through the subwoofer, it is being overdriven, reduce the volume on the SMP300, or speaker damage may occur! (See Volume Limit Control for proper adjustment of volume settings to avoid distortion damage.)

• Low Pass Filter

Use this control to adjust the upper frequency limit of the subwoofer. The purpose is to control the overlap of the subwoofers upper frequencies and the main speakers lower frequencies. If adjusted properly this will provide seamless blending of the subwoofer and the main speakers.

• Phase Control

This control allows you to match the arrival times of the sound waves from the subwoofer and the main speakers to your listening area. While the system is playing flip the switch to the 180° setting and back to 0° until the bass sounds louder or less boomy. Depending on the subwoofers placement and room acoustics, this control may have little or no effect.

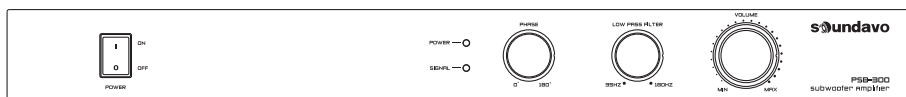


Diagram 3
Amplifier Front Panel

REAR PANEL CONTROL

• Volume Limit Control

(See diagram 1) Use this control to adjust the maximum volume setting for your subwoofer system. With the level control and the front panel volume turned all the way down (counterclockwise), turn the subwoofer on and with audio playing through the system adjust the maximum volume level desired. Setting a max volume level will ensure that no clipping or damage will occur even when the front panel volume control is turned all the way up.

TROUBLESHOOTING

Problem	Possible Causes and Solutions
No sound is heard	<p>a. Audio to the amplifier is not connected properly. Check this and other system component manuals to ensure proper connection.</p> <p>b. The cable is bad. Use another cable that you know is good.</p> <p>c. Loose or frayed wires. Check for secure clean connections on all speaker wire terminals.</p> <p>d. Volume Limit Control is set too low. See Volume Limit Control for adjustment procedure.</p>
A hum or buzzing sound is heard	<p>a. The sound may be caused by a ground loop in the system. Try to eliminate this by reversing the AC plugs of other components in the system.</p> <p>b. Try plugging the PSB-300 into another outlet.</p> <p>c. Other causes may include faulty cables.</p>
The Amplifier will not turn on	<p>a. There may be AC power problems. Check the AC circuit and plugs. Make sure power switch is turned on.</p> <p>b. Audio cable to the amplifier is not connected properly. Check this and other system component manuals to ensure proper connection.</p> <p>c. The cable is bad. Use another cable that you know is good.</p> <p>d. Loose or frayed wires. Check for secure clean connections on all speaker wire terminals.</p>
The Protection Circuit cuts in momentarily and then returns to normal	The circuitry in the amplifier has detected that the amplifier is in danger of overheating. Normally, this would happen infrequently and momentarily. If this persists, the amplifier may need more adequate ventilation.
Protection Circuit cuts in and does not return to normal	There may be a fault in the wiring with the speaker or the amplifier. Turn the power switch off then on again. If the amplifier immediately returns to protection mode, turn it off and check all of the wiring including connections at the amplifier, subwoofer and any connections made to the terminals on a wall plate.

SPECIFICATIONS

Type:	Mono Subwoofer Amplifier
Power Output:	<p>150W RMS @ 8 Ohm (4 Ohm Stable)</p> <p>300W Peak @ 8 Ohm (4 Ohm Stable)</p>
Crossover:	Variable Low Pass Crossover 35Hz - 180Hz
Auto Off Time:	5 min.
Auto On Sensitivity:	5mV
Dual Voltage	115V - 230V
Dimensions (DxWxH)	9¼" x 16¼" x 3" (235mm x 413mm x 76mm)
Warranty:	Limited 2 Year