



P-1200

OWNERS MANUAL

300 Watt Powered Subwoofer

12" EXTRALONG-THROW
Heavy Duty Woofer

FREE-STANDING
POWERED SUBWOOFER

Preference[®]

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged 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.
- **WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
- The mains plug of the power supply cord shall remain readily operable.

WARNING



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.

CAUTION



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.

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YOUR P-1200 POWERED SUBWOOFER

Thank you for purchasing the P-1200 powered subwoofer. Your subwoofer has been developed to provide you with pleasing accurate bass in your music system or home theater sound system.

This manual covers operating procedures, general setup, and technical specifications for your P-1200. We recommend that you thoroughly read through the material contained in this manual before connecting your subwoofer. This will ensure that you have a complete understanding of how to setup and operate your subwoofer properly for optimum performance. Thank you again for choosing the P-1200, and we hope that you enjoy the enhanced dimension that a fine subwoofer adds to the sonic experience.

Box Contents:



Subwoofer



(4) Spiked Feet



(4) Knurled Lock Nuts



(4) Rubber Feet



Power Cord



Manual

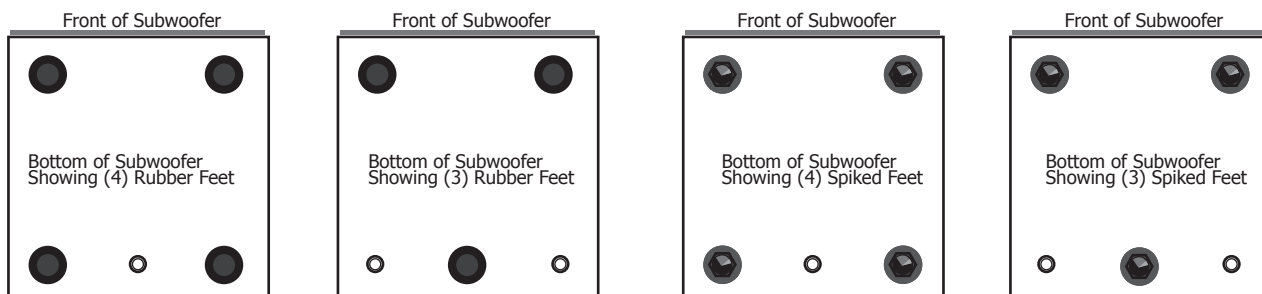
ATTACHING THE FEET

After reviewing the manual and unpacking your P-1200 subwoofer, we suggest that the four rubber feet be installed on the bottom of the enclosure to protect the subwoofer and your floor or cabinetry from damage during installation and setup. These feet can be replaced by the spikes, or removed if desired, after the final location is determined. Here are some guidelines for using the feet.

- DO NOT try to slide your subwoofer with the feet installed. This will damage the foot supports or the feet.
- If the P-1200 is placed on carpet, the spikes are likely the best choice since they will penetrate the carpet and provide a solid and stable footing for the subwoofer.
- If the unit is placed on a hard surface then the rubber feet should be used.
- You may elect to use only three feet especially if the surface on which you are placing the subwoofer is uneven, such as a stone or tile floor. See diagram for details.

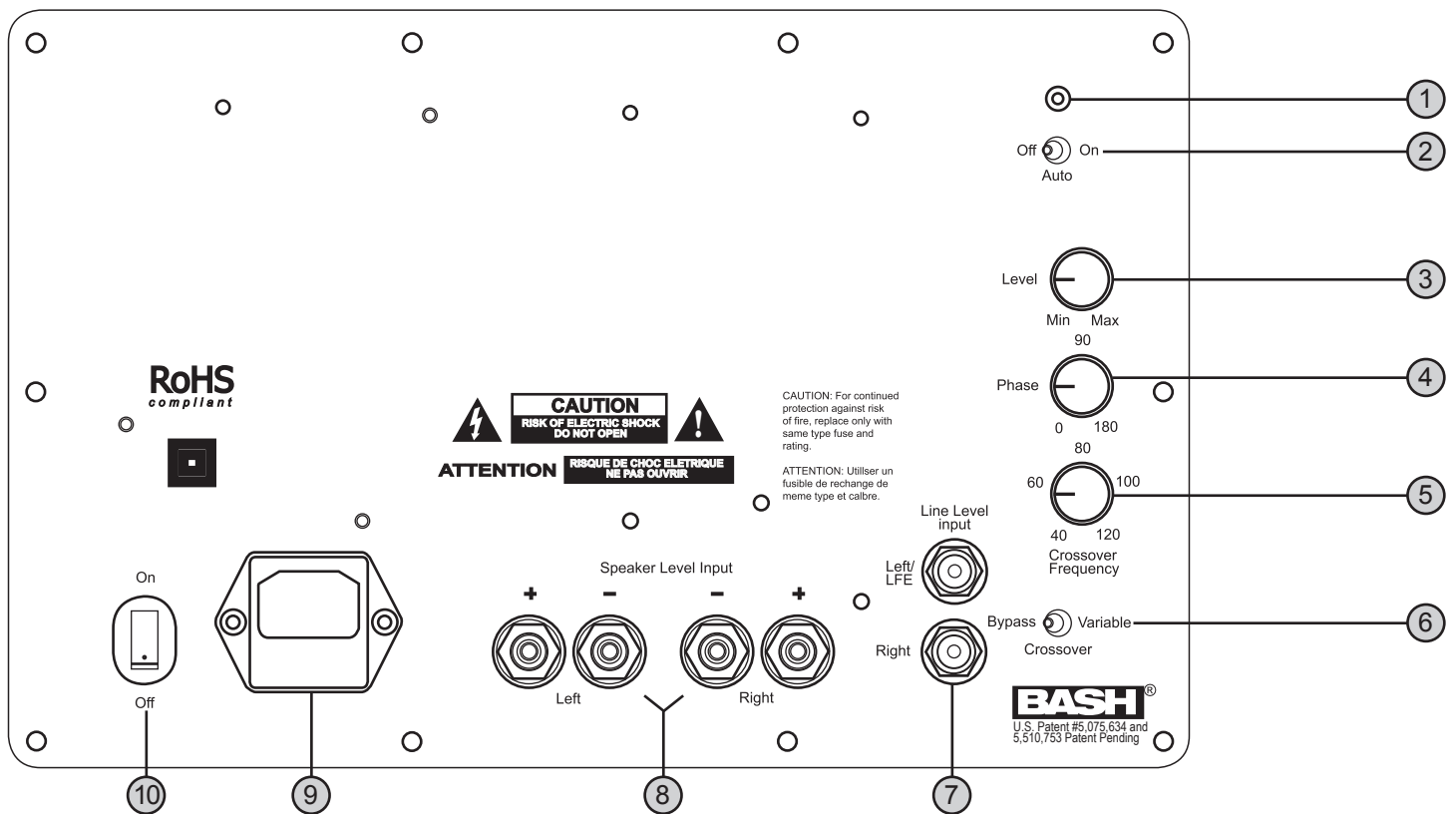
To install the feet:

Thread the knurled jam nuts onto the desired feet and then screw the feet into the appropriate holes on the bottom of the P-1200 enclosure. Begin with the feet screwed all the way into the enclosure. Rotate the enclosure into its upright position and lower the appropriate feet to level the subwoofer and prevent it from rocking. Finger tighten the knurled jam nuts against the bottom of the enclosure to secure the feet and prevent them from moving. Use care not to over-tighten the knurled jam nuts as they will be difficult to loosen.



FEATURES

- The P-1200 subwoofer was designed for exceptional performance and value. It features a 12" extra-long excursion woofer with high BI motor. The bass reflex enclosure ensures extended bass response and high acoustic efficiency.
- The woofer is driven with an integral 300W class A/B amplifier utilizing the patented BASH technology for high electrical efficiency.
- The integral rear-mounted 300 watt amplifier includes several essential controls to contour the subwoofer's output to blend with virtually all loudspeakers and room environments. These controls, their operation, and their adjustment are described in a later section of this manual.
- An integral low pass crossover network is continuously-variable from 40Hz to 120Hz and can be bypassed if it is preferable to use an external crossover located in an outboard receiver or processor.
- The P-1200's integral amplifier incorporates a defeatable signal-sensing circuit that automatically powers up the amplifier when a signal is detected.
- A double-insulated isolated-ground electrical supply prevents electrical ground loops and reduces the noise floor of the entire audio system.
- The P-1200 is shipped with 8 adjustable feet, (4 spiked and 4 rubber) with tool-less knurled jam nuts. These feet can be installed in the bottom of the enclosure in either a three-point triangular pattern or more traditional 4 point square pattern. The bottom of the enclosure has 5 threaded inserts arranged to accept either pattern.



- ① **Power and Standby Mode Indicator** – Off=No Power; Green=On; Red=Standby
- ② **Auto Power Mode Switch** – Selects if amplifier power is signal activated; On=Signal Sensing, Off=Bypassed (Amp ON)
- ③ **Level Control** – Adjusts output level of subwoofer
- ④ **Phase Control** – Adjusts relative alignment of output signal with respect to the input; 0°=In Phase, 180°=Out of Phase
- ⑤ **Crossover Frequency Control** – Adjusts low pass filter cutoff frequency
- ⑥ **Crossover Bypass Switch** – Selects if internal crossover (low pass filter) is active; Variable=Active, Bypass=Inactive
- ⑦ **Line Level Input** – Input connection for RCA Line Level signals from processor or preamp; Includes LFE & Sub signals
- ⑧ **Speaker Level Input** – Input connection for High Level signals from amplifier
- ⑨ **Power Input Receptacle and Fuse Holder** – IEC 2-conductor 120V receptacle accepts supplied IEC power cord
- ⑩ **Master (Main) Power Switch** – Primary power; On=Power Enabled; OFF=Power disconnected from amplifier circuit

CONNECTION

No signal connection cable is provided with the P-1200 subwoofer since the type and length of cable is installation specific. A shielded RCA type coaxial cable, a shielded two-conductor wire with RCA type connectors, or a 2-channel speaker cable is required for connection of the P-1200 to the audio system. Ensure sufficient length to reach from the system source to the subwoofer's line or speaker level input. If you are uncertain about the type and length of wire to purchase after reading this section and the section on Placement then please contact your dealer for assistance.

Before making any connections, ensure that power cord is disconnected or that the main power switch is switched to the off position.

Input Signal: Follow the diagram on page 7 for connecting the subwoofer to your audio system. Use the option that best suits your installation. **WARNING: Use only one of the three options, (Do Not Combine Options).** The information below will aid in determining which option to use.

Note: The best performance can be achieved using the line level inputs (**OPTION 2** or **OPTION 3**) as opposed to the speaker level inputs (**OPTION 1**).

OPTION 1

If a Line Level signal, (Stereo Left/Right, LFE, Sub Out, etc) is available then skip to options 2 and 3 to see if they are more appropriate for your installation.

If no line level output signal is available then the subwoofer should be connected in parallel with the main speakers per the Option 1 drawing. A description is provided below.

- Per the Option 1 drawing on the adjacent page, use two 2-conductor speaker cables and connect the left and right front speaker outputs of your receiver or amplifier to the Speaker Level inputs of the P-1200 as you would connect a pair of speakers. Use care to ensure that the proper polarity is observed (R+ is connected to R+ of P-1200, R- is connected to R- of P-1200, etc). Failure to do so will result in little to no subwoofer output or erratic output.
- If a (B) speaker output is available (unutilized) it can be used in place of making a parallel connection at the receiver but this will only work if the amplifier utilizes an internal parallel connection of the (A) and (B) speaker pairs. Use the following test to determine if this is the case.

Test for Parallel (A) and (B) connection:

Ensure that a pair of speakers is connected to the (A) output and that nothing is connected to the (B) speakers. Engage the (B) speaker button while an audio source is playing through the (A) speakers. If the (A) speakers continue to play then the connections are parallel and you may use the (B) output for the subwoofer. If the (A) speakers discontinue playing when the (B) button is engaged then you will need to connect the subwoofer in parallel to the (A) speaker outputs.

OPTION 2

If an LFE (Low Frequency Effect) or Subwoofer output is available then skip to Option 3 since it will likely produce the best results. If no LFE output is available and a line level Front Channel Output or Preamp Output is available, then this (Option 2) is the preferred method of connection.

- Per the Option 2 drawing on the adjacent page, use a stereo RCA style (patch) cable and connect the left and right line level (RCA style) front channel outputs of your receiver or preamplifier/processor to the Left/Right Line Level inputs of the P-1200.

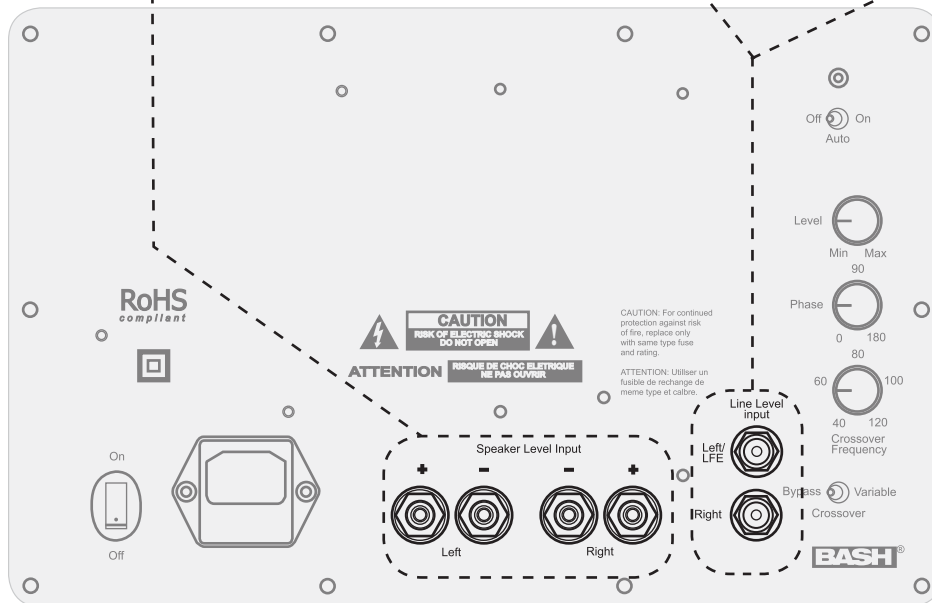
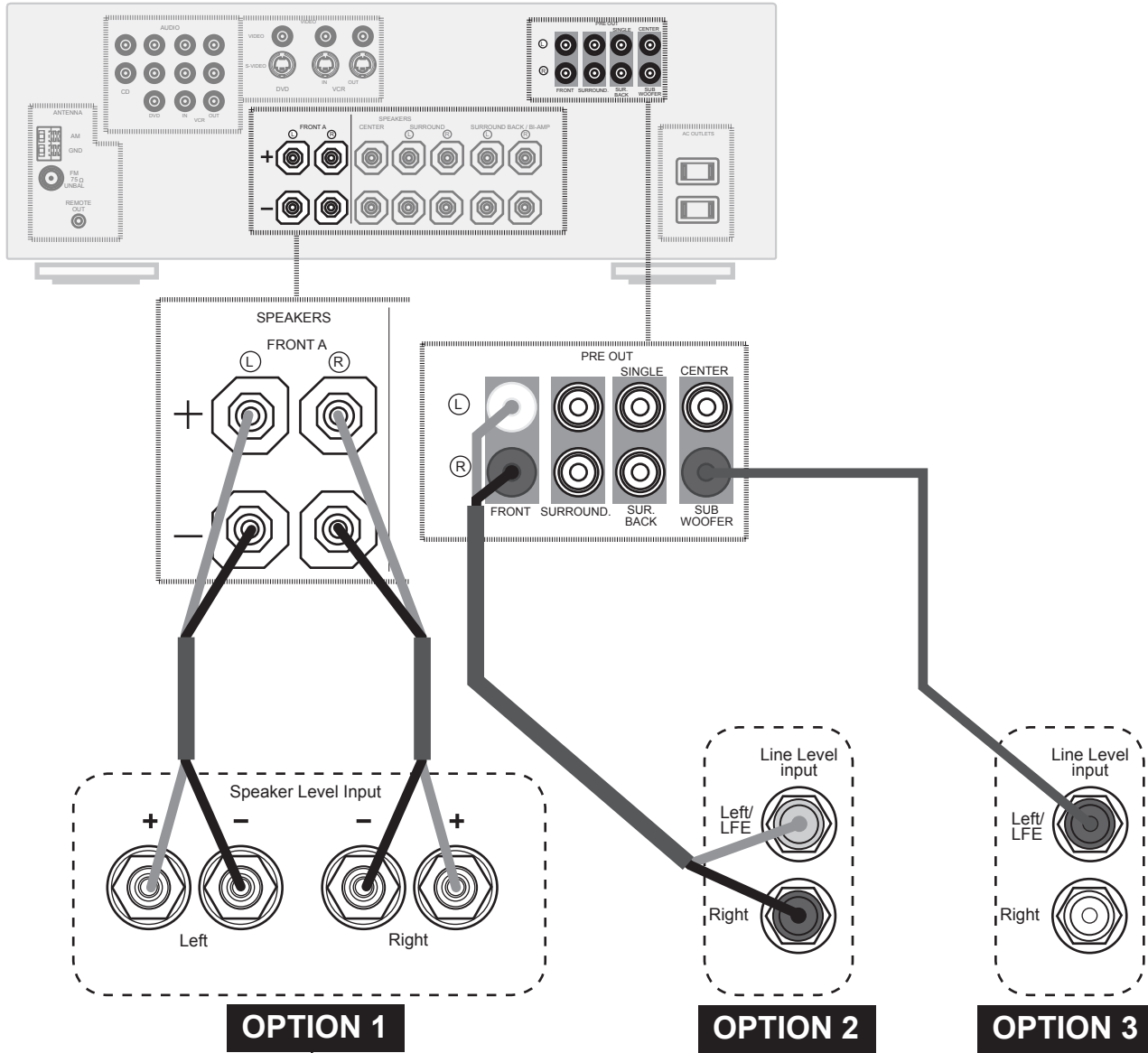
OPTION 3

If the subwoofer is connected to a modern home theater receiver or processor with an available LFE or Subwoofer output then this option will likely produce the best results. If no LFE or Subwoofer output is available but a line level Front Channel Output or Preamp Output is available, then use Option 2.

- Per the Option 3 drawing on the adjacent page, use a single RCA style (patch) cable and connect the line level (RCA style) LFE or Subwoofer output of your receiver or preamplifier/processor to the Left/LFE Line Level input of the P-1200.

AC Power: The unit is shipped with a standard IEC AC cable. Remove this cable from its packaging and insert the cord into the IEC receptacle on the back of the subwoofer. It is best to connect power only after all other connections are made. Connect the power cord to an AC wall receptacle or similar.

CONNECTION (continued)



Placement

There are a number of factors, both acoustic and aesthetic, that ultimately determine the best loudspeaker placement. Subwoofers, by nature of the frequency range in which they operate, have their own challenges, which have as much to do with the room acoustics and listening position as anything else. In many cases the designated location may already be chosen and the only available adjustments may be the subwoofer's controls. The P-1200 controls will allow you to make the best of virtually any installation. If you feel uncomfortable with setting up your P-1200 after reading through this section then you should consider enlisting the help of an experienced person or contacting your dealer.

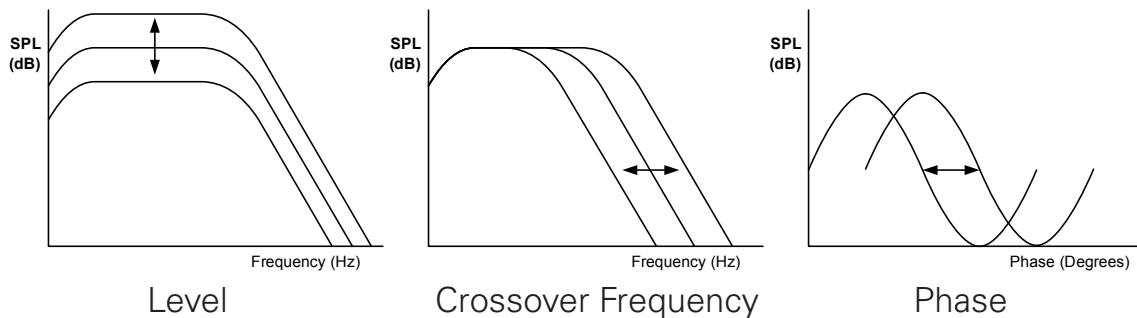
Below are a few generalized rules for understanding the acoustic nature of low frequency sound reproduction in an average residential listening room. These rules will aid in understanding the best placement of and tuning of your P-1200 subwoofer. If possible, experiment with the placement of your P-1200 to determine what works best in your listening room.

- Virtually all rooms have significant resonant modes. The listener will experience these resonant modes as an acoustic increase or decrease in intensity at certain frequencies. These resonant modes are a result of reflected acoustic energy within the room interacting with other acoustic energy, either reflected or direct. These frequency dependent nodes or antinodes, as they are called, are different for every listening position within the room. Equalization cannot simultaneously compensate for all locations within a room. Only physical elements within or at the room's boundaries can effectively alter the room's behavior. These resonant modes can produce large errors in the frequency response and reduce the overall enjoyment of the audio reproduction. Subwoofer placement has some effect on the location of the resonant modes. One should contact an expert in the field of acoustics if one finds that the low frequency reproduction in their room is unsatisfactory.
- Placing the subwoofer near a wall will substantially increase its effective radiating power, especially at very low frequencies. Placing the subwoofer near the intersection of two walls (a corner) will substantially increase it even more. Corner loading, as it is called, is an excellent way to get bass extension and greater acoustic output from your subwoofer and can increase the listening pleasure.
- Placing the subwoofer close to the listening/sitting position will increase the intensity of the transients and reduce the acoustic power demands from the subwoofer. The listener will hear more direct sound from the subwoofer and less reflected sound.
- Bass frequencies are generally considered to be omnidirectional and tend to have no localization. That is to say that it is difficult to determine their place of origin. For this reason, placement of most subwoofers is not limited to the front of the room. However, in practice this is not the case. There are cues such as tactile vibration and higher frequency signal components that can suggest the direction of the source. For this reason it may be desirable to locate the subwoofer at the front of the room near the main speakers. It may also be necessary to reduce the crossover frequency if one finds that the bass sounds too detached from the other sound sources.
- If placement of the woofer at the front of the room is not an option, consider placing the subwoofer at the back of the room. Placement directly behind the listening position can produce very good results as well as corner loading in the back of the room.
- Using multiple woofers at opposite corners of the room can be done to balance the localization of the sound.
- It is not necessary to direct the front of the subwoofer at the listening position.
- The vent at the back of the enclosure must not be blocked. It is advisable to leave at least 3 to 6 inches of space behind the vent. If necessary, turn the cabinet so that the back of the subwoofer does not back up directly to a wall.

P-1200 Controls

The P-1200 subwoofer has three variable controls for tailoring its output to the room and to the primary speakers (also known as satellites). These controls are Level, Crossover Frequency, and Phase. The control with the most audible effect is the Level control, followed by the Crossover Frequency, and then the Phase control, which has the least audible effect.

The following legend shows graphically how each control affects the audio signal.



Fine Tuning the Controls

We recommend the following method as a starting point for fine tuning the P-1200 subwoofer.

Level and Frequency

- A) Begin with the subwoofer's Level control all the way down and the Frequency adjustment set to 120Hz. With the Frequency control in this position the woofer will output higher frequencies that will likely be duplicated by the satellite speakers.
- B) Play some familiar music through the system (music with robust bass content) and increase the Level control until the bass passages sound robust or exaggerated. Then reduce the Frequency control to blend the subwoofer with your main system speakers. We have found that most speakers with 6" to 8" woofers blend well with the crossover set somewhere between 50Hz and 80Hz.
- C) Readjust the Level and the Frequency controls (up or down) as necessary until the bass sounds full, extended, and natural. Use multiple musical pieces to test the system while fine tuning the controls. If it sounds like your subwoofer is always producing the same bass note with different recordings it is possible that the bass level is adjusted too high.

Phase

- A) To adjust the Phase, use music with sustained bass notes.
- B) Rotate the Phase control back and forth across its range and listen for the localization of the bass to become more distinct and also slightly louder. While making this adjustment it is helpful to temporarily adjust the Frequency control to 120Hz. This should provide some overlap of the satellite and subwoofer frequencies and help the ears (brain) to distinguish the two sound sources. Return the Frequency control back to its desired position after performing the phase adjustment.

Fine Tuning the Controls (continued)

Crossover Switch

If you choose to bypass the internal crossover and use an external crossover, such as those located in most modern receivers and processors, then you will need to fine tune the system based on the adjustments provided by the manufacture of your electronics in conjunction with the Level and Phase controls on the P-1200. Note, the Level and Phase adjustments on the P-1200 are not bypassed and will still function as indicated above.

To bypass the internal crossover, move the Crossover switch ⑥ to the Bypass position. The subwoofer will now pass signals up to approximately 300Hz.

Auto Power Mode Switch

The P-1200 contains a circuit that automatically powers up the amplifier when a signal is detected. The same circuit also places the P-1200 into standby mode when no signal has been detected for a period of approximately 10 minutes. This signal sensing circuit can be bypassed by switching the Auto switch ② to the OFF position if it is preferable to control the P-1200's power with a remotely operated power source.

SPECIFICATIONS

- Frequency Response: 28Hz – 300Hz (System Response)
- Crossover Frequency: 40Hz – 120Hz (Low-pass filter with bypass switch)
- Phase Adjustment: 0 – 180 degrees (Continuously variable)
- Amplifier Output Power: 300 watts, with thermal and clipping limiters
- Audio Inputs: Summing stereo line level (RCA x2)
LFE (RCA shared with Left input connector)
Speaker level (Stereo 5-way binding post)
- Input Impedance: Line Level – 20kohms, Unbalanced
Speaker Level – 220 ohms
- Input Power: 120V 60Hz AC
- Input Power Connection: IEC 2-wire receptacle with integral fuse holder
- Power (Mains) Fuse: 3A 250V GMA style Fast Blow
- Power Modes: Auto signal sensing and always on
- Auto Off Delay: ~10 minutes
- Dimensions: 15-3/8"W x 17-5/16"H x 14-3/4"D, (390W x 440H x 375D)mm (without feet)
- Weight: 43lbs (19.5kg)
- Shipping Dimensions: 21"W x 20"H x 20"D, (533W x 508H x 508D)mm
- Shipping Weight: 51lbs (23.2kg)



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