

S412P II

OWNER'S GUIDE

PRODUCT LINE: STUDIO™ SERIES

DESIGN GOAL: Bring the thrill of live performance and movie sound to the home environment by calling on JBL's professional engineering leadership.

TWEETER TYPE: Pure-titanium dome with EOS™ waveguide

WOOFER TYPE: Cast-aluminum basket with HeatScape™ motor structure

CROSSOVER NETWORK: Straight-Line Signal Path™ (SSP)

PORT DESIGN: FreeFlow™ flared

PROFESSIONAL REFERENCE: Studio Monitor

READ THIS! Important Safety Precautions!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.



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.



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 appliance.

- 1. Read Instructions.** All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions.** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings.** All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions.** All operating and use instructions should be followed.
- 5. Cleaning.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments.** Do not use attachments not recommended by the product manufacturer, as they may cause hazards.
- 7. Water and Moisture.** Do not use this product near water—for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; near a swimming pool; or the like.
- 8. Accessories.** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9. A Product and Cart Combination Should Be Moved with Care.** Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
- 10. Ventilation.** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



11. Power Sources. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Polarization. This product may be equipped with a polarized alternating-current-line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Nonuse Periods. The power cord of the product should be unplugged from the outlet when left unused for long periods of time.

15. Outdoor Antenna Grounding. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

16. Lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17. Power Lines. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

18. Overloading. Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry. Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. Servicing. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Damage Requiring Service. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen onto, or liquid has been spilled into, the product; or
- The product has been exposed to rain or water; or
- The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation; or
- The product has been dropped or damaged in any way; or
- The product exhibits a distinct change in performance; this indicates a need for service.

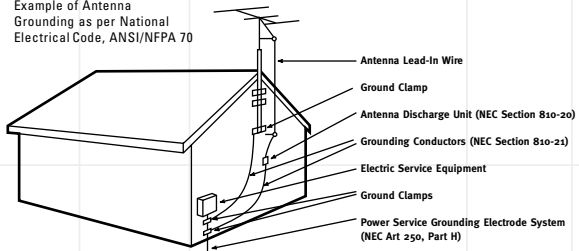
22. Replacement Parts. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

23. Safety Check. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. Wall or Ceiling Mounting. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat. The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Figure 1.
Example of Antenna
Grounding as per National
Electrical Code, ANSI/NFPA 70



THANK YOU FOR CHOOSING JBL

For more than 50 years, JBL has been involved in every aspect of music and film recording and reproduction, from live performances to the recordings you play in your home, car or office.

We're confident that the JBL loudspeakers you have chosen will provide every note of enjoyment that you expected – and that when

you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL.

Please take a moment to complete the enclosed profile card. It enables us to keep you posted on our latest advancements, and helps us to better understand our customers

and build products that meet their needs and expectations.

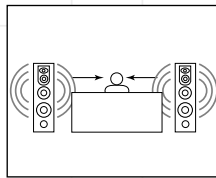
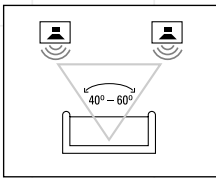
JBL Consumer Products

SPEAKER PLACEMENT

Proper placement of the speakers is an important step in obtaining the most realistic soundstage possible. These recommendations are for the optimal

placement of the loudspeakers. Use them as a guide. Slight variations will not diminish your listening pleasure.

The S412P11 loudspeakers are video-shielded and can safely be placed near a television.



The S412P11 speaker features four rubber feet that enable it to be placed on a smooth-surfaced floor, such as tile or hardwood. Four metal spikes are supplied for use when the speaker is to be placed on a carpeted surface to decouple the speaker from the floor and prevent unwanted damping.

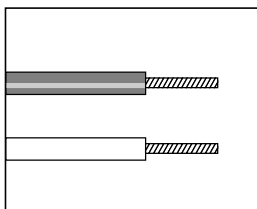
To insert the spikes, gently lay the speaker on its side (not its front or back) on a soft, nonabrasive surface. Each spike screws into the threaded insert in the center of each rubber foot. Make sure all four spikes are screwed in completely for stability.

NEVER drag the speaker to move it, as this will damage the spikes, the feet and/or the wood cabinet itself. Always lift the speaker and carry it to its new location.

CAUTION: Floorstanding (tower) loudspeakers have a high center of gravity and may become unstable and tip over during earthquakes or if rocked, tipped or improperly positioned. If this is a concern, these speakers should be anchored to the wall behind them, using the same procedures and hardware customary for anchoring bookcases and wall units. Customer is responsible for proper installation and proper selection of hardware.

SPEAKER CONNECTIONS

CONNECTION TIPS



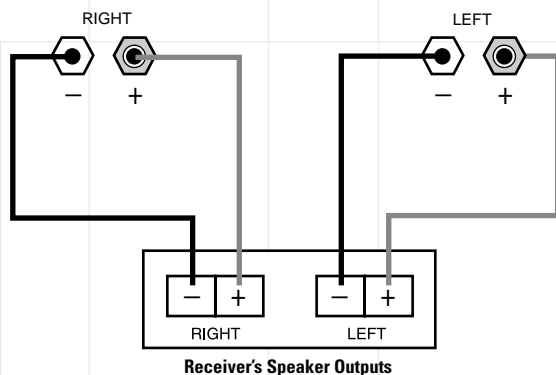
Speakers and electronics terminals have corresponding (+) and (-) terminals. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (-) on the speaker to (-) on the

amplifier. Wiring “out of phase” results in thin sound, weak bass and a poor stereo image.

With the advent of multichannel surround sound systems, connecting all of the speakers in your system with the correct polarity remains equally important in order to preserve the proper ambience and directionality of the program material. To use the binding-post speaker terminals, unscrew the collar until the pass-

through hole in the center post is visible under the collar. Insert the bare end of the wire through this hole; then screw the collar down until the connection is tight. The hole in the center of each collar is intended for use with banana-type connectors.

SPEAKER-LEVEL CONNECTIONS

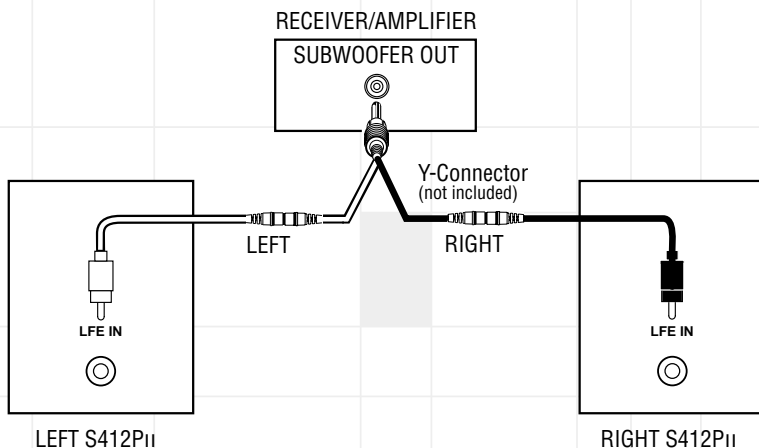


Your S412P_{II} speakers should be connected to your receiver in two ways (at speaker level and line level) in order to achieve the best performance, especially when listening to program material recorded in digital formats, such as Dolby* Digital and DTS®. Connect the left-front and right-front speaker terminals on your receiver or amplifier

to the 5-way binding posts on the back of each S412P_{II} speaker. Remember to maintain the correct polarities (“+” to “+” and “-” to “-”). The S412P_{II} uses a red binding post for “+” and black for “-”. These connections will provide full-range sound to all four transducers, and you should ALWAYS make these connections.

If your receiver or amplifier does not have a line-level subwoofer output, then you do not need to make any other connections, and you should skip to the section titled “Amplifier Controls.”

LINE-LEVEL CONNECTIONS



Each S412P11 speaker is also equipped with a line-level Low-Frequency Effects (LFE/Subwoofer) input for superior performance with digital surround formats. The .1 LFE channel contains additional low-frequency information not found in the left- and right-front channels. The LFE input works with the full-range speaker-level input to provide the dynamics and effects that your favorite

filmmakers intended. You will need to use a Y-Connector (not included) with one male connector and two female connectors to connect the line-level subwoofer output on your receiver/amplifier to the LFE/Subwoofer inputs on the S412P11 speakers. Plug the male connector into the subwoofer output on your receiver or amplifier, and connect each of the two female connectors to

extension RCA patch cords. Then plug each patch cord into the LFE/Subwoofer input of the left and right S412P11 speakers. **Note:** If your receiver has separate left and right line-level subwoofer (or LFE) output jacks, you do not need to use a Y-Connector.

AMPLIFIER CONTROLS

LFE Level Control: Allows you to adjust the volume of the low-frequency effects/subwoofer channel to suit your room acoustics or tastes. However, it only affects the LFE signal. If you are not using the LFE input, the LFE level control will not operate.

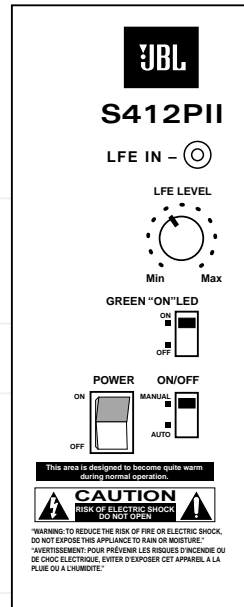
Configuring Your Receiver: You should choose the "Large" or "Wide" option for the left- and right-front speakers so that full low-frequency information will be sent to the S412P_{II} speakers. Make sure that you also configure your receiver for "Subwoofer On" or "LFE On." In this case, the LFE/Subwoofer signal will consist only of the .1 (bass) channel. The LFE signal level can be adjusted by using the LFE level on the S412P_{II} amplifier panel. For initial setup, you should set the level controls on both speakers at minimum (full counterclockwise rotation). With 5.1, 6.1 or 7.1 source material playing, advance the level controls on each speaker slowly until the desired amount of effects channel is present. This is a rather subjective adjustment and should be made using a variety of program materials.

If you choose, you can use the "Small" or "Narrow" setting on your receiver. In this case, all of the information below 80Hz will be fed to the LFE/Subwoofer input on the S412P_{II}. Now the level control operates throughout

the entire bass spectrum below 80Hz, not just within the .1 channel portion. This configuration is generally unnecessary but, in certain room-placement conditions, it allows greater bass-level control.

Power Switches: The main "Power" switch is simply marked "On" and "Off." Turn this switch on to commence operation of the powered amplifier after you have plugged the power cord into an AC outlet. The second switch is labeled "On/Off" and has two positions.

Placing the switch in the "Auto" position puts the amplifier in Standby mode. In this mode the speaker will be able to automatically sense an incoming signal, which will trigger it to turn fully on. The speaker will also automatically switch itself back into Standby mode after approximately 10 to 15 minutes have passed without its sensing a signal. We recommend that you leave this switch in the "Auto" position for most applications. If you will be away from home or not using your speakers for an extended period of time, you should turn the speakers off by using the main power switch. The Manual position will bypass the auto-sensing feature and leave the amplifier on until turned off with the main switch or returned to auto sensing by choosing the auto position.



LED Indicators: When your speaker is turned on but is not receiving a signal, the LEDs on the front of the unit glow red to let you know that your speaker is plugged in. When the speaker is receiving a signal, the LEDs glow green. We have provided a convenient "Green 'On' LED" switch on the back panel to allow you to shut off the front LEDs should they interfere with your enjoyment of a movie. This switch has no effect when the LEDs are in red mode.

TROUBLESHOOTING

If there is no sound from any of the speakers:

- Check that receiver/amplifier is on and that a source is playing.
- Review proper operation of your receiver/amplifier.

If there is no sound coming from one speaker:

- Check the "Balance" control on your receiver/amplifier.
- Check all wires and connections between receiver/amplifier and speakers.
- Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- Make sure no wires are touching other wires or terminals and creating a short circuit.
- Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on, and determine whether the problem is in the same place, i.e., the speaker that was working previously now has no sound and the speaker that was not working now sounds fine; or whether it has moved, i.e., the speaker that was not working still has no sound and the speaker that was working is still fine. If the problem is in the same place, the source of the problem is most likely with your receiver or amplifier, and you should consult the owner's manual for that product for further information. If the problem has followed the speaker, consult your dealer for further assistance or, if that is not possible, visit our Web site at www.jbl.com for further information.

If the system plays at low volumes but shuts off as volume is increased:

- Check all wires and connec-

tions between receiver/amplifier and speakers.

- Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

If there is no (or low) bass output:

- Make sure the polarities (+ and -) of the left and right "Speaker Inputs" are connected properly.
- Make sure that the speaker is plugged into an active electrical outlet and switched on, and that the green LEDs are displayed.
- In Dolby Digital or DTS mode, make sure your receiver/processor is configured so that the subwoofer and LFE output are enabled.

If you used the LFE input and there is no sound from the subwoofer:

- Check that receiver/amplifier is on and that a source is playing.
- Make sure that the speaker is plugged into an active electrical outlet and switched on, and that the green LEDs are displayed.
- Check all wires and connections between receiver/amplifier and speakers.
- Make sure all wires are connected. Review the "Line-Level Connections" section on page 5 of this manual and make sure that a single RCA patch cord is connected to each loudspeaker from the Y-Connector plugged into the receiver/amplifier's subwoofer output. Make sure none of the speaker wires are frayed, cut or punctured.

- In Dolby Digital or DTS mode, make sure your receiver/processor is configured so that the subwoofer and LFE output are enabled.

If you are using the S412Pii LFE/Subwoofer input and the bass level decreases (instead of increasing) when you turn the LFE/Subwoofer Level knob clockwise:

- Recheck to make sure that your receiver or amplifier-speaker outputs are correctly connected to the S412Pii speaker inputs (gold-plated binding posts), (+) to (+) and (-) to (-). The S412Pii (+) terminal has a red stripe and is located on the right-hand side, below the letter "L" of the molded JBL logo, when looking directly at the back of the S412Pii.
- If the wires are connected properly, the confusion may be attributable to the design of your receiver/amplifier. Your unit may have inverting inputs, which reverse the polarity of the signal between the inputs and outputs of the amplifier. To check if this is the case, reverse the speaker connections for **ALL** S412Pii's in your system (and disconnect any other speakers in the system) so that the receiver/amplifier's (+) connector is connected to each S412Pii's (-) (black stripe) speaker connector. If you do this and the S412Pii's function properly (bass increases as you turn your LFE/Subwoofer level-control knobs clockwise), your receiver/amp uses inverting inputs. This is not a problem. Simply connect all of the speakers in your system the same way, with the receiver or amplifier's (+) terminal to the speaker's (-) terminal, and the receiver or amplifier's (-) terminal to the speaker's (+) terminal.

SPECIFICATIONS

Maximum Recommended Amplifier Power:**	250W
Powered Subwoofer Amplifier Output:	200W
Nominal Impedance:	8 Ohms
Sensitivity (2.83V/1m):	92dB
Frequency Response (-3dB):	32Hz – 20kHz
Crossover Frequencies:	250Hz, 700Hz, 3500Hz
High-Frequency Transducer:	1" Pure-titanium dome, with rubber surround, shielded; Elliptical Oblate Spheroidal™ (EOS) waveguide
Midrange Transducer:	4" PolyPlas™ (polymer-coated cellulose fiber) cone, rubber surround, shielded; Linear Field Proximity™ (LFP) bezel
Midbass Transducer:	6" PolyPlas™ (polymer-coated cellulose fiber) cone, rubber surround, shielded
Low-Frequency Transducer:	12" PolyPlas™ (polymer-coated cellulose fiber) cone, rubber surround, SFG™ magnetic shorting rings, high-temp oversized Kapton® voice coil, HeatScape™ motor structure, cast-aluminum basket, shielded
Dimensions (H x W x D):	44" x 14-3/4" x 16-1/16" (17" with grille) 1118mm x 375mm x 408mm (432mm with grille)
Weight (per speaker):	100 lb (45.5kg)

All features and specifications are subject to change without notice.

* Trademark of Dolby Laboratories.

DTS is a registered trademark of Digital Theater Systems, Inc.

** The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

OWNER'S GUIDE		JBL	PRO SOUND COMES HOME™
PRODUCT LINE: STUDIO™ SERIES			
MODEL NUMBER:	S412Pii	JBL Consumer Products 250 Crossways Park Drive, Woodbury, NY 11797 8500 Balboa Boulevard, Northridge, CA 91329 800-336-4JBL (4525) (USA only) www.jbl.com	
DESIGN GOAL: Bring the thrill of live performance and movie sound to the home environment by calling on JBL's professional engineering leadership.		©2001 JBL, Incorporated	
TWEETER TYPE: Pure-titanium dome with EOS™ waveguide		JBL is a registered trademark of JBL, Incorporated.	
WOOFER TYPE: Cast-aluminum basket with HeatScape™ motor structure		Part No. 338047-001	
CROSSOVER NETWORK: Straight-Line Signal Path™ (SSP)		H A Harman International Company	
PORT DESIGN: FreeFlow™ flared			
PROFESSIONAL REFERENCE: Studio Monitor			

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