

HV81 HV101 HV121

Thank you for choosing Phase Technology speakers. We know there are a wide variety of choices available today, and we sincerely appreciate your purchase of our product. Phase Technology speakers are built to exacting standards and will provide many years of listening enjoyment.

Our speakers are the result of over five decades of designing and manufacturing. Our mission, our passion is to constantly advance the art and science of accurate audio reproduction. Our dedication insures your new speakers will accurately reproduce all the impact, detail and delicacy of today's digital technology.

Regardless of application, serious audiophile listening or home theater, we recommend that you take the time to read this manual thoroughly before connecting speakers to your amplifier or receiver. In the highly unlikely event that you should experience a problem with set-up or operation, please contact one of our authorized dealers for assistance, or contact us directly.



HV81

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HV SERIES FEATURES:

- 100-watt internal amplifier
- Signal sensing auto turn on/off
- Gain control
- Phase switch
- Variable crossover
- Line/level inputs
- LFE input
- Oversized surround for ultra long excursion
- Servo-control, which monitors and adjusts output for dynamic and undistorted response

SUBWOOFER PLACEMENT

Subwoofer placement is important, but less critical than speaker placement, because the frequencies subs reproduce are omni directional. This means the human ear doesn't perceive these low frequencies as coming from a specific direction, enabling placement of a subwoofer virtually anywhere in the listening room.

It's best, however, to keep a subwoofer within the sound field of the other speakers. The closer the subwoofer is to a wall, the louder and more intense its bass output will be: this effect is even stronger when the sub is placed in or near a room's corner. If using two subwoofers, start by placing them next to the front left and right speakers, in both front corners or one in the corner and one 1/3 of the way along the front wall from the corner. Each room is different. Experiment with these options and try other locations until you get the best results. If you must choose a less-than-ideal position, the output level of Phase Technology powered subwoofers is adjustable to compensate for your listening environment.

SUBWOOFER AMPLIFIER PANEL

1. Power ON/Auto/OFF: This switch, when left in the "Auto" position, automatically activates the subwoofer when an audio signal is detected and shuts the subwoofer off after approximately ten (10) minutes of silence.

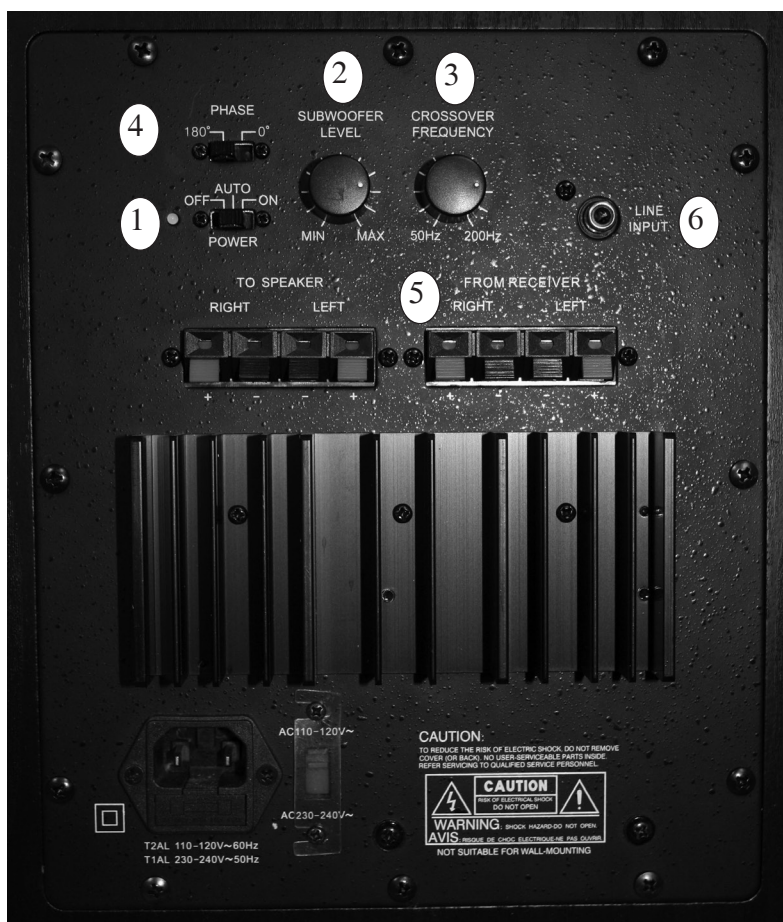
2. Subwoofer Level Control: Adjusts the volume of bass energy allowing you to customize overall tonal balance to your individual room acoustics and personal taste.

3. Crossover Frequency Control: This adjustment varies the point at which the subwoofer takes over the task of creating low bass frequencies from the rest of the audio signal permitting additional fine tuning of the total system. A little experimentation with this control will allow you to match the performance of the subwoofer to the rest of your speakers resulting in extraordinary, accurate, deep bass response. This control should be turned to its highest setting when the sub is connected through the Subwoofer out on your receiver.

4. Phase Control: This adjustment matches the phase - the in and out movement of speaker cones - to that of your main speakers. Adjust this control by listening to music with bass content. The setting is correct when the bass sounds the fullest.

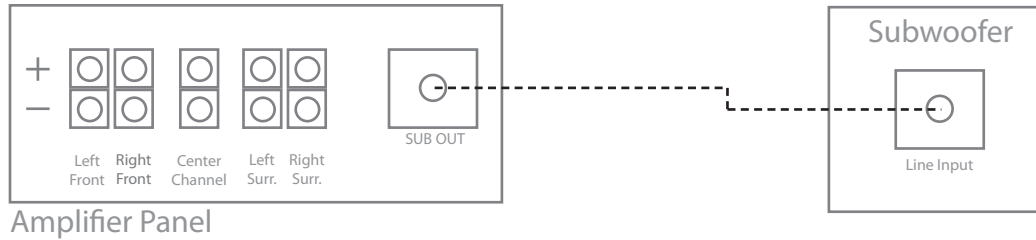
5. High Level Input and Output: Used for direct speaker connections from the left and right front speaker outputs when a low-level subwoofer output is not available.

6. Low Level Input: Used from pre-out or Subwoofer-out.

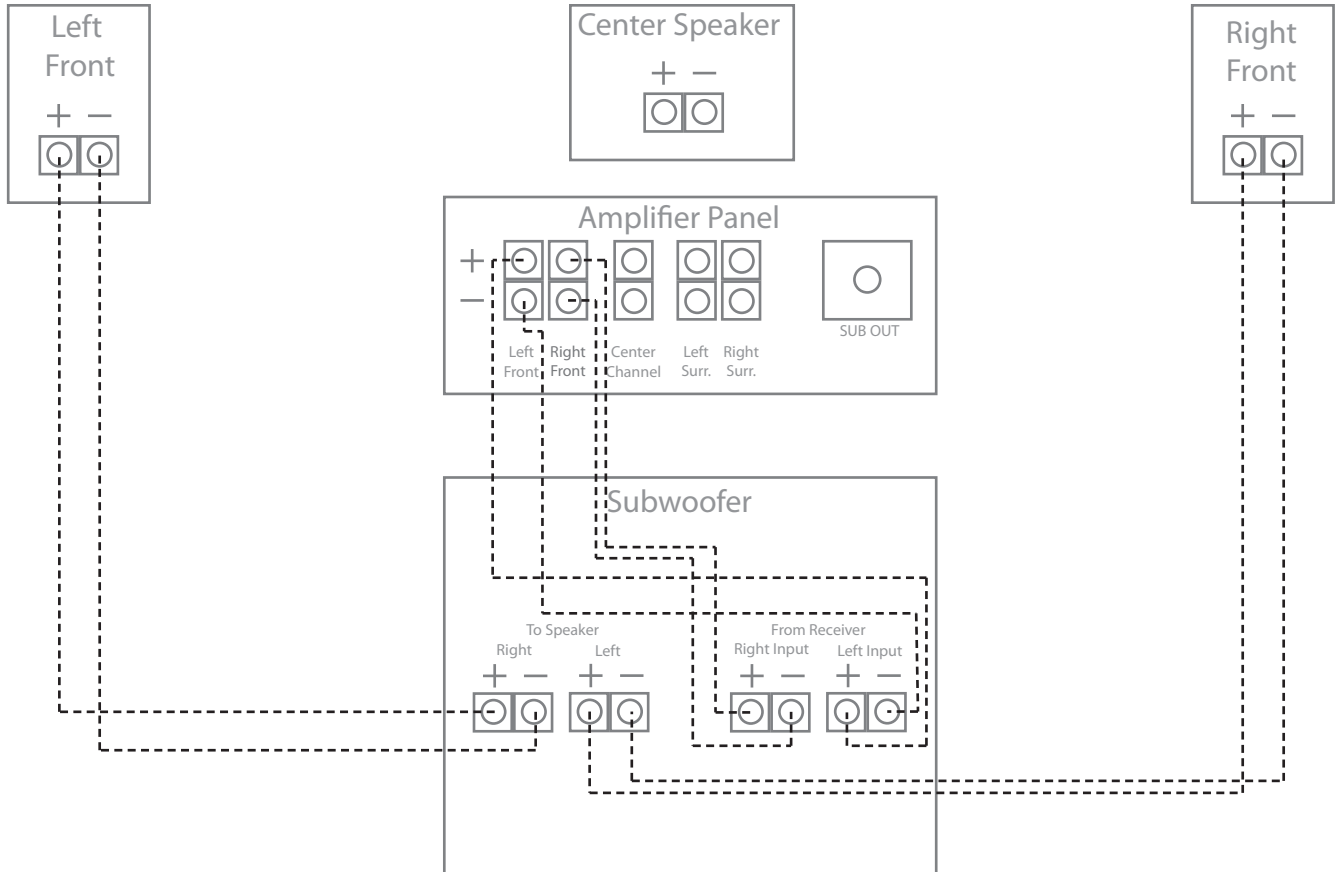


SUBWOOFER CONNECTIONS

Option 1: Low Level Setup This is the recommended method for those amplifiers and receivers that are equipped with a “Subwoofer Out” or “Pre-Amp Out” connection. Virtually all audio/video receivers have this connection clearly marked on the rear panel. Run a dedicated interconnect cable with RCA connectors from the subwoofer output jack to the line input on the subwoofer. In this setup, you will be using the internal crossover on your processor.



Option 2: High Level Input Setup If your amplifier or receiver does not have a dedicated subwoofer output, it will be necessary to connect your new subwoofer directly to the speaker output terminals on the back of the unit. In this scenario, you will be running high quality speaker wires from the left and right front outputs of your amplifier to the high level inputs on the subwoofer. You will then need a second set of wires to carry the signal from the subwoofer back to the main speakers.



AMPLIFIER SETUP AND BASS MANAGEMENT

Many home theater receivers/processors have a feature that controls how the bass is processed and delivered to the subwoofer. It also adjusts the amount of bass that is sent to your satellite speakers. Look carefully in your amplifier or receiver's instruction manual for details on how to adjust for the speaker size (sometimes called "Speaker Setup") for your system.

When using a Dolby® Digital or DTS™-capable receiver/processor with the subwoofer connected to the subwoofer out on your amplifier turn the "LOW-PASS FREQUENCY" control to the highest setting (200 Hz) on the back of your subwoofer. Set the subwoofer crossover setting in the speaker setup section of the amplifier setup menu to 150 HZ (or the next highest setting) and set the Satellites and Center channels to "small".

If you are NOT using the receiver's internal processor for subwoofer control then turn the "CROSSOVER FREQUENCY" control on the subwoofer to the 3 o'clock (150 Hz) setting.

WARRANTY

LIMITED WARRANTY

Phase Technology warrants its loudspeakers to be free from defects in material and workmanship for a period of ten (10) years for speaker product and three (3) years for the electronic components to the original purchaser. Purchase must be made from an authorized Phase Technology dealer.

This warranty does not cover service or parts to repair damage caused by misuse, abuse, damage while in transit, alterations, unauthorized repairs, failure to follow instructions, fire, flood or any other cause beyond the reasonable control of Phase Technology. Defects in speaker cabinets or grilles must be brought to the attention of your dealer immediately after purchase. This warranty will be void if the products' serial number has been altered or removed.

To obtain warranty service, defective product must be shipped in its original carton or equivalent together with original invoice or bill of sale, insured and prepaid to your authorized Phase Technology dealer or the factory when warranty service is requested.

If you choose to return the defective product to the factory you must first call us at (888) phase-tk to obtain a Return Authorization number prior to shipping. Product repaired under this warranty will be returned to you freight collect.

SPECIFICATIONS	HV81	HV101	HV121
Woofer	8" treated paper cone	10" treated paper cone	12" treated paper cone
Amp Power (Watts, continuous)	100	100	100
Amp Power (Watts, peak)	200	200	200
Frequency Response	35-200 Hz	29-200 Hz	25-200 Hz
Dimensions*	10.75" W x 14.125" H x 14.75" D*	11.75" W x 17" H x 16" D*	14" W x 19.5" H x 18.25" D*
Finish	Black Woodgrain Finish	Black Woodgrain Finish	Black Woodgrain Finish

*Add 1" to depth for connection.

Phase Technology Corporation www.phasetech.com

MSE Audio Group 8650 College Boulevard Overland Park, Kansas 66210 (866) 663-9770 www.mseaudio.com



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