

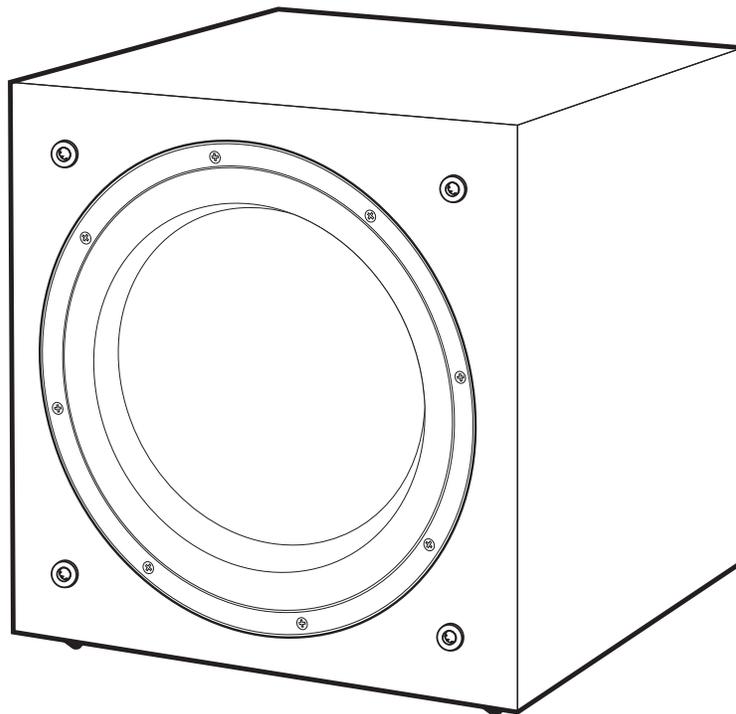
Powered Subwoofer



User Guide for

CS-10

SS-10



now hear this.

Benicia, California
Designed and Engineered in the USA
Made in China

NHT's newest Subwoofer models (SS-10 and CS-10) are an extension of our 2010 move to 100% acoustic suspension designs that offer tighter, more musical bass reproduction and increased placement flexibility. Each is designed with an efficient Class D amplifier providing ample power on demand but can also run cool with virtually no wasted energy. Additionally, our new subwoofers employ a powerful DSP solution for crossover and equalization control as well as maintaining low distortion output by preventing signal overload. Each of the cabinets are made from ¾" medium density fiberboard (MDF), and each panel laminated internally with 1/8" aluminum sheets to make them ultra rigid.

The following Setup Guide will help you unpack, connect, and place your new subwoofer in your listening room. If you are interested in specifications or in technology used in the design, please visit our website at www.nhthifi.com and look up information on your specific model. If at any time during or after setup you require assistance, feel free to call our Customer Hotline at 1-800-NHT-9993 (800-648-9993).

Unpacking your Speakers

As you unpack your powered subwoofer, you will notice rubber cones included in the carton ideal for use on wood or tile floors. These screw into the threaded inserts on the bottom of the speaker. They can be adjusted if you have an uneven floor and include a locknut to lock them down. We recommend you use metal cones when placing a subwoofer on heavy carpet flooring to add stability. Metal cones can be purchased at nhthifi.com.

Placement

Note: To prevent your new subwoofer amplifier from overheating, always be sure to provide adequate space for proper ventilation. Do not place the subwoofer directly against the wall or any other surface.

The key to placing your subwoofer for optimal enjoyment is to remember that low frequency sounds have long wavelengths, which interact with room boundaries, such as walls and corners, and other large objects.

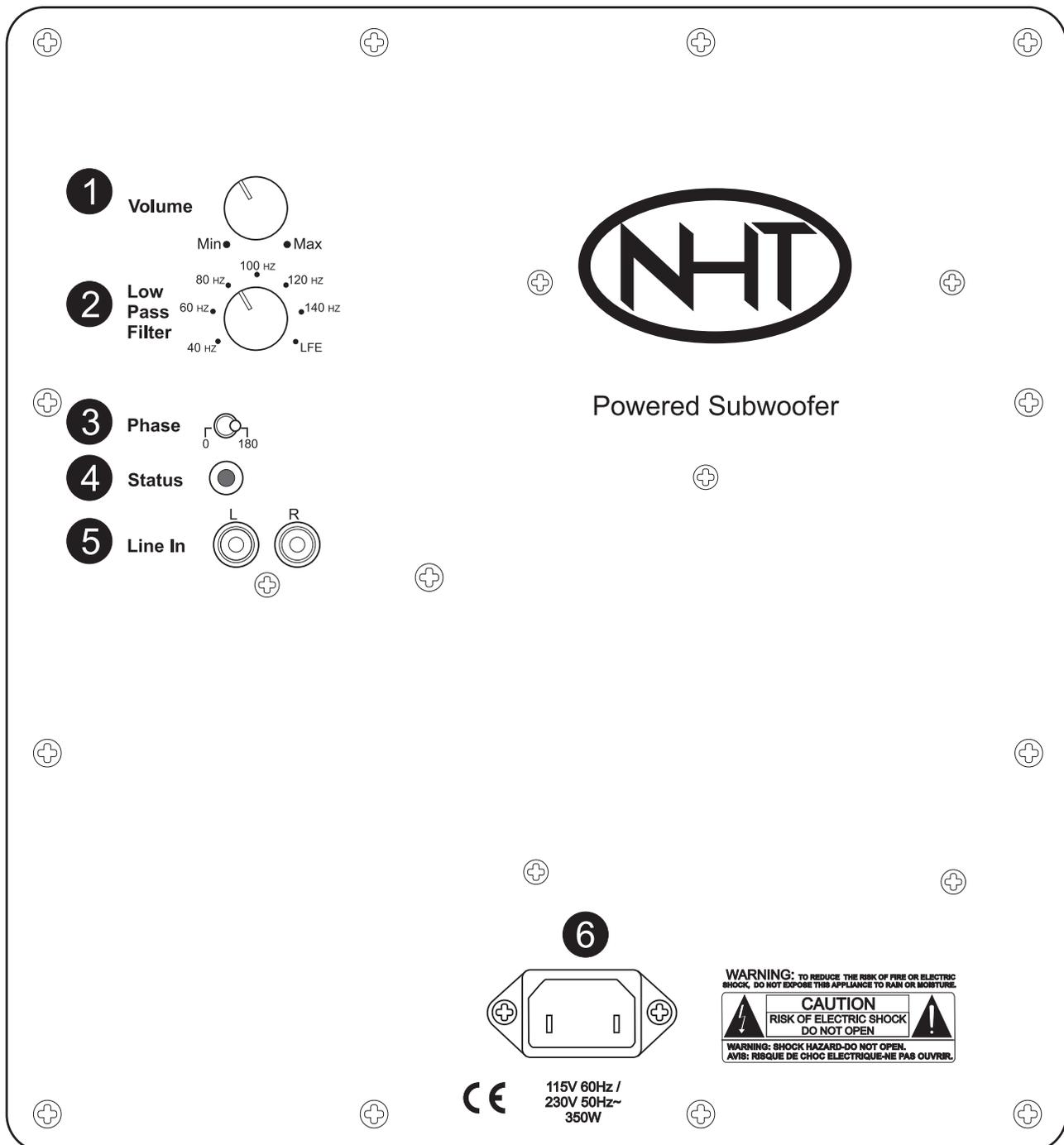
Placing the subwoofer near a room boundary, corners in particular will tend to increase its subjective bass output, but may result in somewhat "boomy" or "muddy" sound. Conversely, placing it near a single wall or farther away from room boundaries will tend to seemingly decrease bass output, but may result in improved articulation and clarity.

When possible, place the subwoofer in the same horizontal plane and along the same wall as the main speakers. It will provide a more coherent soundstage for music. However if integrated well with its companion speakers, this is not a requirement.

Since changes in subwoofer position can have an effect on sound, experimenting with the effects of different placements in your own listening/viewing room is the key to finding the right balance. If you need help integrating your subwoofer into your system, call the NHT Customer Service hotline for assistance.

Back of Subwoofer

- (1) Volume Control - Adjusts the loudness of the subwoofer independently of the main speakers.
- (2) Low-Pass Filter - Continuously variable low-pass crossover control.
- (3) Subwoofer Phase Selector - 2-position selectable phase control for subwoofer. (0 - 180)
- (4) Status - The light is green when the subwoofer is on. The light is red when the subwoofer is in stand-by mode. The light is red when the subwoofer is in protection mode.
- (5) Line Input - Low level RCA input jacks for L/R signals
- (6) Power Inlet - For universal AC line input connection. The CS-10 and SS-10 will operate at 100 to 264 VAC. There is no fuse.



Controls

Volume: This control allows you to adjust the gain of the Subwoofer relative to the rest of your system. Many listeners make the mistake of setting subwoofers too loud, which can cause bloat as well as loss of detail and musicality. A properly calibrated subwoofer should blend in with the speakers and does not call attention to itself. To properly set volume:

- ▶ Turn down the volume control on the CS-10 to its lowest position (counter-clockwise).
- ▶ Set the Low Pass Filter to where your main left and right speakers play down to. Example: If your L&R speakers cut off at 70Hz, set your LP on the sub with a slight overlap, then do fine adjustments from there.
- ▶ Turn on your audio system, including the CS-10. Play some music you are familiar with and set your receiver/preamplifier volume to a comfortable listening level.
- ▶ Slowly increase the volume of the CS-10, listening for proper frequency balance. When balanced, you will hear improved bass extension, but not be aware that it is coming from the subwoofer.

From this point on, the volume control on your receiver/preamplifier will control the overall volume of your system, including the subwoofer.

LOW PASS FILTER: This control determines the upper-limit frequency the subwoofer will reproduce. For example, setting the filter at 100Hz will cause the subwoofer to reproduce only frequencies below 100Hz. The Low Pass Filter is continuously variable between 40Hz (low bass) and 180Hz (upper bass), to accommodate different speakers.

SUBWOOFER PHASE: This switch sets the phase of the subwoofer at either the 0° position (normal phase) or the 180° position (reverse phase) to achieve the smoothest possible bass response in your system.

This phase-reversing option is important because when bass frequencies come from both the subwoofer and the main speakers, peaks and dips in the frequency response can occur at the listening position. In these cases, reversing the subwoofer phase can improve blending and balance.

To properly set the Subwoofer Phase:

- ▶ Play familiar music, reversing phase settings. Listen from your usual position.
- ▶ Avoid evaluating while standing above the subwoofer or amplifier; sound at the listening position will be significantly different.
- ▶ The correct setting is the one in which the bass is the loudest at the listening position.

Auto Standby

There is no power switch on the CS-10 and SS-10. The auto standby feature automatically switches your CS-10 into minimum-power mode (i.e. sleep) whenever no signal is present for 20 minutes. When a signal is received, it immediately turns on again. As AUTO Mode is automatic, it requires no adjustment, nor is there a need to turn the subwoofer on and off every time it is used.

Operation

Every speaker has limits and it's important to listen for them. Speaker damage most often results not from brief loud musical peaks, but rather from sustained high volume levels in some or all frequencies. For this, extreme volume settings and excessive bass, treble or equalizer boosts are highly discouraged.

If you hear unusual distortion or breakup, or notice heat coming from the woofer, decrease volume immediately, neutralize any excess bass, treble or equalizer boosts, and avoid setting any controls to similar extremes again.

Maintenance

Your NHT speakers will require little if any maintenance under normal use. Try to avoid exposing them to direct, sustained sunlight, high temperatures or moisture. Cabinets can best be dusted using a clean, soft chamois cloth. The finish on your speakers is durable but dry rough cloth and/or excessive force can leave fine scratches over time. Try to avoid using liquid cleaners and household furniture polish, particularly around the speaker components. To clean the grilles, remove them from the speaker and use a soft brush or a vacuum on its lowest setting. Do not attempt to clean the speaker components.

Satisfaction

We hope you enjoy the sound of your NHT C-Series speakers as much as we do. Your warranty is printed on the back of this Setup Guide. Once again, if you have any questions or problems, please call us at our Consumer Hotline. 1-800-NHT-9993

Specifications

Woofers	10" paper cone long throw
Magnetically shielded	No
Inputs	L and R line level on RCA
Frequency Response	CS-10: -3dB @ 22Hz SS-10: -3dB @ 34Hz
Amplifier Power	CS-10: 300W 4 ohms, 1% THD SS-10: 250W 4 ohms, 1% THD
Amplifier Type	Class D
Adjustable Low Pass	40-140Hz, LFE (bypasses LP circuit)
Phase	0-180 degrees 2 position switch
Cabinet Size	CS-10: 13.8" x 13.8" x 13.8" SS-10: 12.25" x 12.25" x 12.25"
Cabinet Material	18mm MDF with 1mm Aluminum sheet (interior)
Finish:	CS-10 High Gloss Piano Black Lacquer SS-10 High Gloss vinyl laminate
Weight	CS-10: 32.7 lbs SS-10: 25.6 lbs
Finish	Piano Black High-Gloss Paint
Included Accessories	Power Cord, (4) Rubber Spikes, Setup Guide

Specifications are subject to change without notice.

Limited Warranty Valid Only in the U.S.A.

Warranty Period

For a period of 5 years for parts and 5 years for labor (1 year parts and 90 days labor for electronics) from the date this product is first purchased from an authorized NHT dealer, Now Hear This (NHT) warrants that if it fails to function properly due to a manufacturing defect, despite its being installed and operated according to these instructions and used under normal conditions, it will be either replaced or repaired with new or rebuilt parts (both at NHT's option) with a unit of comparable value without charge to you.

What's Not Covered

Altered, defaced or removed serial numbers void this warranty.

This warranty does not cover any product used in trade, business, industrial or commercial applications.

This warranty also does not cover the cabinet or appearance factors, or costs, defects or damage resulting from misuse, abuse, accident, improper maintenance, alterations or modifications not authorized in writing by NHT, or parts or labor from any source other than an authorized NHT service location.

Damage due to power exposure in excess of the speaker's published power ratings; ie, overpowering, lightning or power surges, are also not covered.

Your Rights

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

NHT limits this warranty to the purchase price of the product, excludes incidental or consequential damages, and limits its obligations under any implied warranties under state laws to a period not exceeding their warranty periods. As some states do not allow the above limitations, however, they may not apply to you.

To Obtain Service

To find the name and address of the nearest authorized NHT service location, call or write:

Customer Service Department, NHT, 6400 Goodyear Rd., Benicia, CA 94510, 1-800-NHT-9993 (648-9993), www.nhthifi.com

For your future convenience, please keep this warranty with your sales receipt, and record date and place of purchase for further reference.