



S-00
POWERED
SUBWOOFER
OWNER'S MANUAL

SERIAL NUMBER:

SAFETY INSTRUCTIONS -- PLEASE READ FIRST

CAUTION: To reduce the risk of electric shock, do not remove the cover. No user serviceable parts are inside; refer servicing to qualified personnel.

WARNING: To reduce the risk of fire or electric shock do not expose this appliance to rain or moisture.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure that may be sufficient to constitute a risk of electric shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

All the safety and operation instructions should be read before the appliance is operated.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed Warnings:

All warnings on the appliance and in the operating instructions should be adhered to.

Follow Instructions:

All operation and user instructions should be followed.

Water and Moisture:

The appliance should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool etc.).

Ventilation:

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

Heat:

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including other amplifiers) that produce heat.

Power Source:

The appliance should only be connected to a power supply of the type described in the operating instructions or as marked on the appliance.

Grounding and Polarization:

Precautions should be taken so that the grounding or the polarization means of the appliance is not defeated.

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 and plugs, convenience receptacles and the point where they exit from the appliance.

Cleaning:

The appliance should be cleaned only as recommended by the manufacturer.

Nonuse Periods:

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

Object and Liquid Entry:

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage Requiring Service:

The appliance should be serviced by qualified service personnel when;

The power supply cord or the plug has been damaged; or

Objects have fallen, or liquid has been spilled into the appliance; or

The appliance has been exposed to rain; or

The appliance does not appear to operate normally, or exhibits a change in performance; or

The appliance has been dropped, or the enclosure damaged.

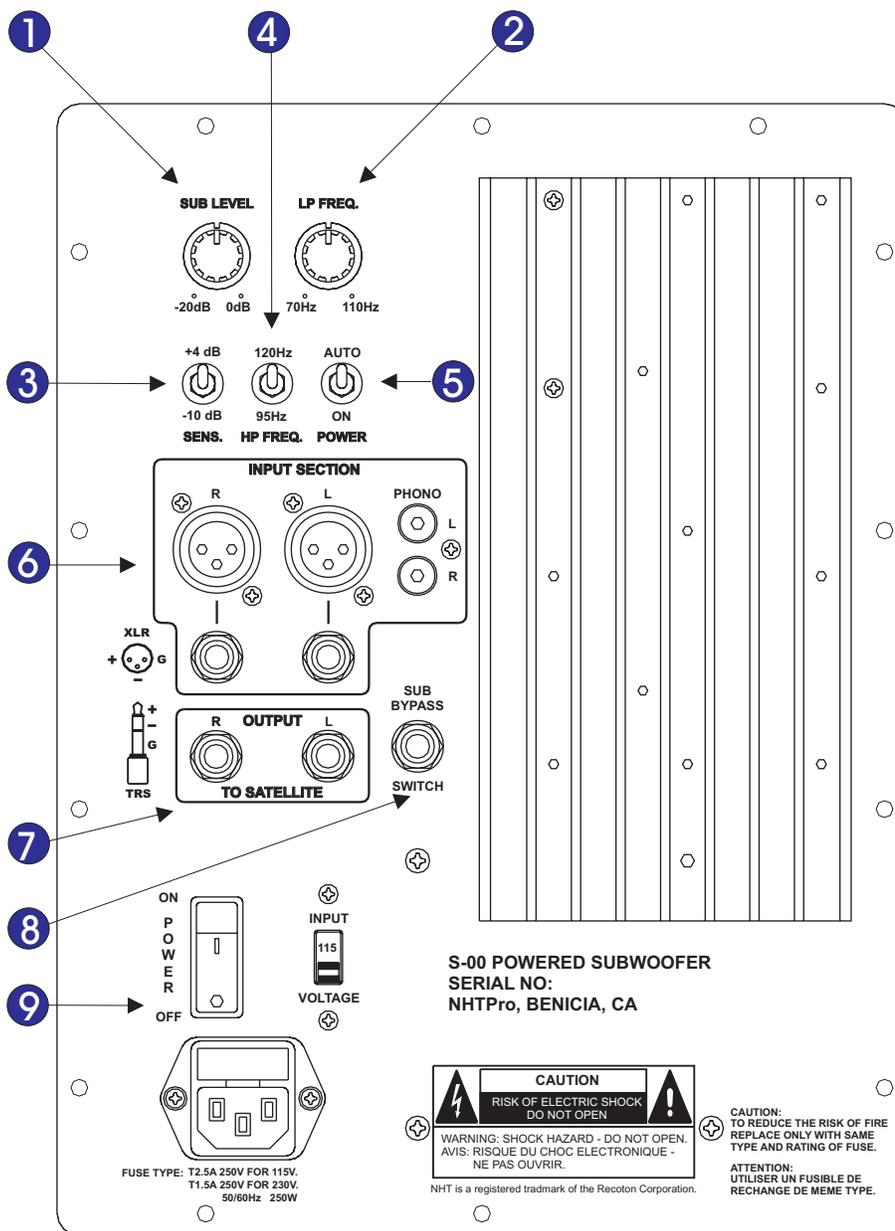
Servicing:

The user should not attempt to service the appliance beyond what is described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

INTRODUCTION:

Thank you for your purchase, and congratulations on your selection of the NHTPro S-00 powered subwoofer. The S-00 will add dynamic bass response to any pair of powered mini-monitors, or can be used to reproduce the .1 LFE channel for surround mixing. While the S-00 was designed to mate seamlessly with the NHTProM-00 monitor system, you'll soon come to appreciate the extraordinary performance advantages this subwoofer will bring to your system regardless of the application.

Investing some time learning about the S-00's features and capabilities will reward you with the best possible performance. Now would also be an excellent time to fill out and send in your warranty registration card; or register online in the Support section of at www.nhtpro.com. This action will automatically extend both the parts and labor warranty for an additional two years, for a total of three years! If at any time, you require assistance, call our customer service hotline at (800)-NHT-9993 (648-9993), or e-mail us at tech@nhtpro.com.



S-00 Rear Control Panel

USER CONTROLS:

- 1** Sub Level Control:
The subwoofer level control matches the S-00 output level to the satellite monitors. This control differs from most as it doesn't turn the woofer all the way off, but offers a 20dB range of adjustment. Fully clockwise, output is maximum (0 dB). In the counter clockwise position, the sub output is attenuated by 20dB.
- 2** Low Pass (LP) Frequency Control:
This control allows fine adjustment of the subwoofer crossover point to match the point where the satellites roll off at the low end of their response. This detented low pass control has a range of 70Hz -110Hz.
- 3** Input Sensitivity Control:
This control affects both the subwoofer input and the high pass circuit. There are two settings; +4dB and -10dB. +4dB is used with professional gear such as mixers, while the -10dB position is for consumer grade products such as CD players and sound cards. Check the output specifications of the source equipment you are connecting to the subwoofer, to find the best setting for each application.
- 4** High Pass (HP) Frequency Switch:
The High Pass Frequency switch controls the lowest point in the frequency range passed on to the satellite monitors. There are two settings: 95Hz and 120Hz. Selecting the proper switch position (see the Initial Control Settings section on Pg. 6) will help blend the overall system response and increase power handling. Setting the Subwoofer Bypass switch to BYPASS eliminates this circuit and sends all frequencies in the signal to the satellite monitors.
- 5** Auto Power Switch:
When turned to the "AUTO" position, this switch places the S-00 in an energy-saving standby mode after 10 minutes without an incoming signal. When in standby mode, the LED on the front of the S-00 changes from "GREEN" to "RED" The S-00 instantly resumes operation when an input signal appears, and the LED changes back to "GREEN." Setting this switch to the "ON" position keeps the S-00 powered up at all times, and defeats the standby mode.
- 6** Input Section:
The S-00 offers three stereo input options: two types of balanced inputs (TRS and XLR) and unbalanced RCA. The two balanced inputs are wired in parallel. Note: Standard 1/4" connectors maybe used in place of the TRS type if the source equipment employs unbalanced outputs, but this method may induce unwanted noise.
- 7** Output Section:
The output connectors to the satellite monitors are balanced, TRS type. Two 12' cables are included to connect the S-00 left and right outputs to the satellite monitors.
- 8** Subwoofer Bypass:
This feature, helpful when monitoring, allows you to turn the S-00 "ON" or "OFF" on the fly. Any standard "latching" or two-position foot switch that has a 1/4" plug will control this function. A press of the foot switch will place the S-00 and its High Pass filter into BYPASS mode and remove them from the signal chain (changing the indicator LED to RED). A second press of the foot switch, causes the S-00 to resume operation, and the indicator LED changes back to GREEN.
- 9** Power Section:
The main power ON and OFF switch is located above the power cord receptacle. Located next to the power switch is a voltage selector, preset at the factory for the destination country. A power cord appropriate for that voltage is included with the S-00.



WARNING: As a precaution, check the setting for appropriate voltage prior to plugging the S-00 into an AC outlet.

CONNECTING THE S-00 SUBWOOFER:

Using the S-00 as a .1 or LFE stand-alone device:

Connect either an RCA, XLR or TRS from your designated LFE channel or buss output assignment to either the left or right input on the S-00 "INPUT SECTION". If more subwoofer sensitivity is required, use a "Y" adaptor and connect to both left and right inputs. Be sure to utilize surround test tone signals to properly balance the woofer level with the other monitor channels. Please read through the Subwoofer Placement and User Controls sections before you begin.

Using the S-00 to augment the frequency response of mini-monitors:

Connect the left and right outputs from your mixer or source unit to either the XLR, TRS or RCA jacks on the "INPUT SECTION" of the S-00. Now connect the supplied left and right TRS cables from the "TO SATELLITE" output jacks on the S-00 to your satellite monitors' input jacks. You may also want to connect a foot switch (or any standard 1/4", 2-position switch) into the BYPASS input on the rear of the S-00. Using this feature is not necessary to the basic operation of the S-00.



Warning: The S-00 was designed to be connected to powered satellites only, do not attempt to connect passive satellite monitors to the S-00.

Tech Tip: The XLR and TRS input jacks are wired in parallel. This allows you to patch the unused balanced input into another device like a DAT machine or additional monitor system. You can also daisy chain multiple subwoofer/satellite systems for fixed installations.

INITIAL CONTROL SETTINGS:

Input Sensitivity Selection:

This switch affects the input sensitivity of all three sets (XLR, TRS and RCA) of input jacks. When satellites are connected to the S-00, the subwoofer takes over as the master sensitivity control for the system.



IMPORTANT: Set the satellite speakers you're using to the +4 setting. Set the sensitivity on the S-00 to the appropriate setting for your source equipment.

HP Frequency Selection:

If you are using Vergence M-00 monitors as satellites, set the HP FREQ to the 120Hz setting. If you use a different brand of powered satellites try setting the switch to 120 Hz when the satellite woofer size is 5" or smaller and 95Hz if larger than 5".

Subwoofer Level Setting:

The level you select will depend largely on placement. We suggest you start with this control in the 12 o'clock position. Move the control in a clockwise direction to increase bass output and counterclockwise to decrease it. Adjust the level so that the S-00 seamlessly integrates with the satellites, ie. you can tell it's operating but can't "hear" it as a separate entity.

Low Pass Frequency Setting:

Getting this setting right may take a little time. Using a variety of demo material you are very familiar with, start with the control in the 12 o'clock position. If the bass sounds too "punchy", turn the control counter clockwise towards 70Hz. If the bass sounds thin, turn the control clockwise towards 110Hz.

Auto Power:

Use of this control is entirely optional. **NOTE:** The Satellite Output is also muted when the subwoofer goes into the standby mode.

SUBWOOFER PLACEMENT:

Where you locate the S-00 subwoofer will have a profound effect on the system's performance. Unfortunately, there are no hard and fast rules to find the best location. If you have some flexibility, we encourage you to experiment. The following guidelines should help you in your placement decisions:

Placement near walls and corners will reinforce low frequencies; conversely, placement out into open space will add definition, but will reduce bass weight and extension.

Ideally, the subwoofer should be adjusted so that you hear the additional bass extension, but cannot localize the subwoofer itself.

Listen as you go, using a wide variety of program material. Jazz recordings with acoustic bass and piano are particularly helpful in determining location, sub level and crossover settings. Transparency and integration are the goals.

The S-00 subwoofer amplifier has a number of controls which can help while determining optimal placement; try them all!

TECH TIP: The bypass foot switch is very helpful when setting up and tuning the S-00 to your room. When switching the woofer in and out, no tonal difference should be noticeable, just bass or no bass.

SYSTEM OPERATION:

The S-00 used in conjunction with good satellite monitors, like the M-00's, can play very loud with low distortion. Although designed to handle a wide range of listening levels, every speaker has its limits. Harsh breakup is an indication your monitors or the subwoofer have exceeded their output limits. Excessive boosting of bass, treble or equalizer controls can worsen the problem. If you hear continuous distortion or feel heat emanating from the drivers, reduce the level immediately. Most speaker damage occurs from sustained high volume levels, not from transient sounds or brief musical peaks. Listening at high volume levels is potentially dangerous and can lead to permanent hearing loss, especially when listening in the near-field. Protect your ears and use common sense.

SYSTEM MAINTENANCE:

Your S-00 subwoofer needs no regular maintenance. The S-00 cabinet is finished with a durable, powder-coat paint. Light dusting is usually sufficient, although the cabinet can be cleaned with a non-abrasive, water based, cleaner. The grill covering the woofer is mounted internally and is not user serviceable.



WARNING: To avoid risk of electrical shock, do not remove the amplifier from the rear of the cabinet. Refer all repairs to a qualified authorized service center. Always disconnect the S-00 from the AC power source prior to any maintenance.

TECHNICAL SUPPORT:

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Toll free: 800-NHT-9993 (648-9993). Fax: 1-707-747-1252. Email: tech@nhtpro.com.

Postal Mail: NHTPro, 6400 Goodyear Rd., Benicia, CA 94510

SYSTEM:

Type: Integrated, self powered subwoofer
Configuration: Acoustic Suspension
Woofers: 8" high-excursion, treated paper

FEATURES/CONTROLS:

Input Connectors: XLR, TRS, RCA
Output Connectors: TRS
Switchable Input Sensivity: +4dB, -10dB
Continuously Variable Gain: 0 ~ -20dB
Continuously Variable Low Pass Frequency.
Switchable High Pass Frequency.
Subwoofer Bypass via outboard footswitch.

SPECIFICATIONS:

Amplifier Power: 125W RMS, 250W peak
(500ms)
Peak Acoustical Output: 108 dB SPL @ 60 Hz
Crossover:
 Low Pass - 70Hz - 110Hz, 12dB/Oct.
 High Pass - 95Hz or 120Hz, 6dB/Oct.

Response (\pm 2dB): 40Hz - 115Hz
-6dB LF Cutoff: 35Hz
Dimensions: 13.25"H x 10.25" W x 13" D
Weight: 30 lbs.
Enclosure Material: 3/4" MDF
Finish: Black Powder Coat

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