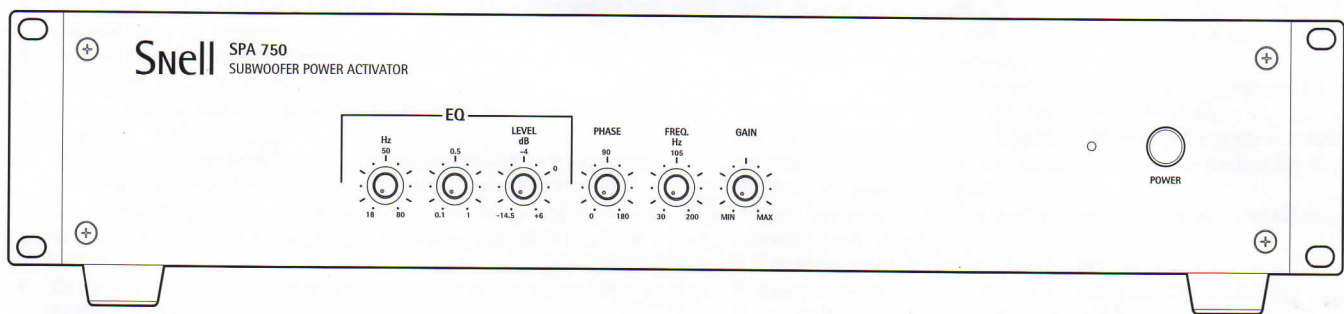


SPA750 Owner's Manual



Snell

Important Safety Instructions

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



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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read These Instructions: All the safety and operating instructions should be read before the product is operated.
2. Keep These Instructions: The safety and operating instructions should be retained for future reference.
3. Heed All Warnings: All warnings on the product and in the operating instructions should be adhered to.
4. Follow All Instructions: All operating and use instructions should be followed.
5. Water and Moisture: Do not use this apparatus near water - for example, a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
6. Clean Only With Dry Cloth: Unplug this product from the wall outlet before cleaning.
7. Wall- or Ceiling-Mounting: The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation: Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions. The product should be situated so that its location or position does not interfere with its proper functioning. For example, the product should not be situated on a bed, sofa, rug or similar surface that may obstruct the heat sink surfaces; nor placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air near the heat sink surfaces. Maintain a minimum distance of 10 mm around the top and bottom of the apparatus. Do not cover or place on or around the apparatus items such as newspapers, table-cloths, curtains, etc.
9. Heat: Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. No naked flame sources, such as lighted candles, should be placed on the apparatus.
10. Power Sources: The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
11. Grounding or Polarization: CAUTION: TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT
ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. Do not defeat the safety purpose of the polarized plug 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.
12. Power Cord Protection: Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
13. Nonuse Periods: The power cord should be unplugged from the outlet when left unused for long periods of time.
14. Object and Liquid Entry: Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the product.
15. Lightning: Unplug this apparatus during lightning storms or when unused for long periods of time. This will prevent damage to the product due to lightning and power line surges.
16. Damage Requiring Service: The product should be serviced if any of the following events occur:
 - A. The power supply cord or the plug has been damaged;
 - B. Objects have fallen or liquid has been spilled into the product;
 - C. The product has been exposed to rain;
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped or the enclosure damaged.
 - F. When the product exhibits a distinct change in performance - this indicates a need for service.
17. Servicing: The user should not attempt to service the product beyond what is described in the operating instructions. Unplug this product from the wall outlet before cleaning. For servicing, consult your dealer or contact Snell Acoustics.
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. Accessories: Only use attachments/accessories specified by the manufacturer. Do not place this product on an unstable cart, stand, tripod, bracket, or table. Use only with a cart, stand, tripod, bracket, or table specified by the manufacture., or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
20. Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
21. 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.
22. The apparatus is suitable for use in tropical and/or moderate climates.

SPA750 SPECIFICATIONS

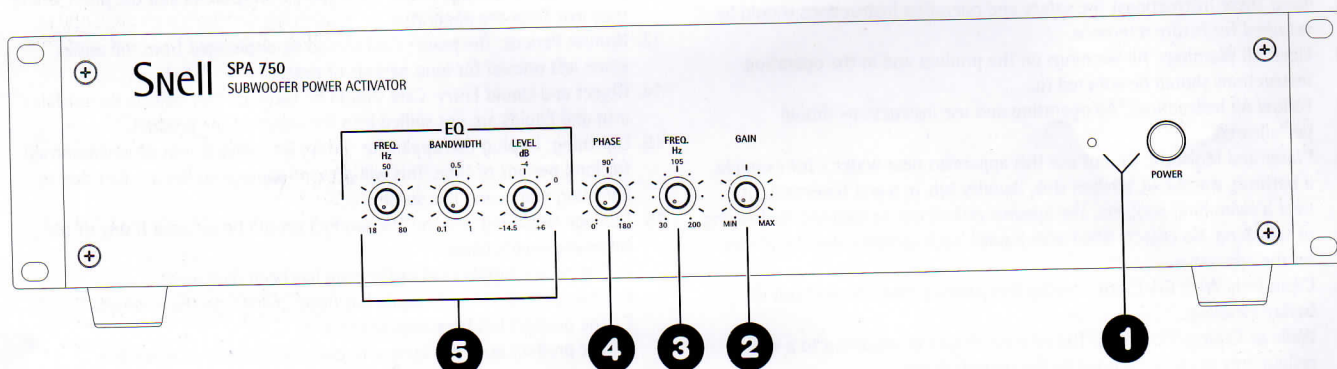
Amplifier Power	(< 0.4% THD) 375 watts continuous, 8 ohms; 750 watts continuous, 4 ohms
Power Requirements	120/230 VAC, 50 Hz/60 Hz
Stand-by Power Rating	120V/24W; 230V/18.4W
Crossover Frequency	30-200Hz 12dB/octave lowpass
Inputs	L and R stereo RCA line level and LFE RCA line level for crossover bypass 12-volt trigger input. 1/8" diameter female plug with tip positive
External Dimensions (H x W x D)	3.6" x 19" x 13" (92 x 483 x 331mm) without feet 4" x 19" x 13" (102 x 483 x 331mm) with feet installed and rack ears removed. 2 EIA Rack space with feet removed
Weight	20 lbs (8kg)
Finish	Black

DESCRIPTION

Snell's new SPA750 subwoofer amplifier and accompanying subwoofer speaker system deliver the dynamic bass foundation that is essential for lifelike reproduction of movie soundtracks and music in the home.

The amplifier has a built-in variable crossover that makes it easy to achieve a seamless blend with the main speakers, while 12 dB/octave lowpass filters prevent the subwoofer from being easily localized by the ear, increasing placement flexibility. A crossover bypass position is provided for use with home theater electronics that perform their own bass management functions to ensure a seamless transition between mains and the subwoofer(s).

The SPA750 is attractively housed in a standard compact 2 space x 19-inch rack enclosure. For rack mounting, rack ears are included or the amplifier can be used in a tabletop configuration. Auto on/off and 12-volt amplifier switching and easily accessible controls including single band parametric equalization make the SPA750 subwoofer amplifier as convenient to use as it is exciting to listen to.



Front Panel Controls

1 Power switch and LED

Pushbutton switch to turn on and off. When the LED indicator is dimly lit, it is in standby mode. When the LED indicator is brightly lit, the amplifier is fully active. The LED indicator will not light up when the amplifier is off.

2 Gain

Start at 5 when using the stereo "LINE IN" input. Adjust volume level up or down until the bass level of your subwoofer matches the bass level of your speakers. You may wish to set the volume higher when using the LFE input to give you headroom when adjusting the bass level on your Dolby Digital or Pro Logic surround processor.

3 Frequency

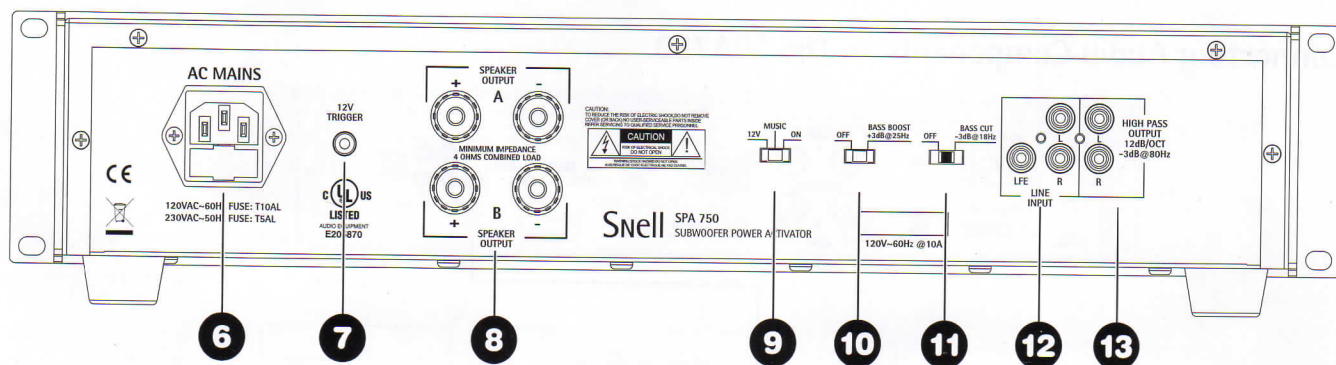
Adjusts the low-pass crossover frequency from 30 Hz to 200 Hz. When using the Left/Right inputs, this adjustment will allow you to properly integrate the subwoofer with the satellite or main speakers. It is recommended to experiment with different settings until the smoothest transition between subwoofer and speakers is achieved.

4 Phase

Switches the polarity of the two speaker outputs. Experiment with this setting. The correct setting is that which yields the fullest bass. Adjustable phase compensation from 0 to 180 degrees. In most situations the knob should be left at 0 degrees, but for the advanced user it can be set either by ear or with the aid of measurement instruments.

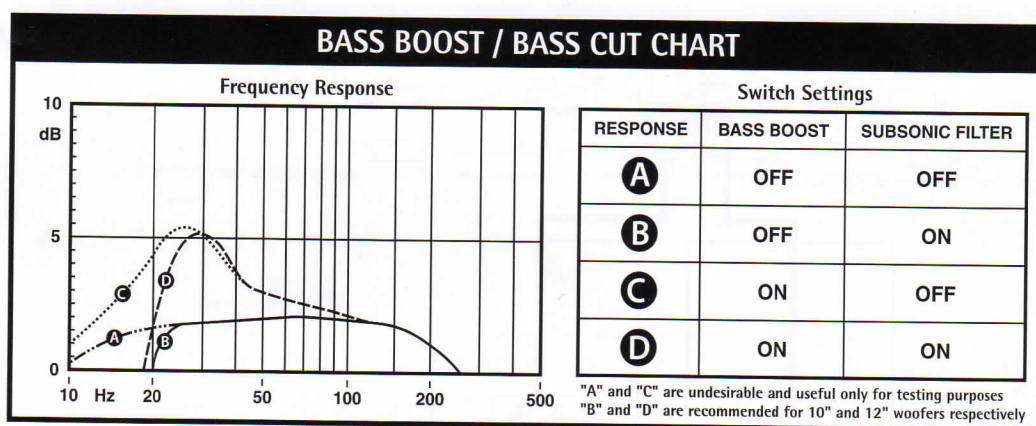
5 EQ

The EQ adjustment knobs enable the user to custom-tailor a single band of parametric equalization for their subwoofer, which can be used to add boost to the low-end of the response, or can be used to cut out an excessively loud room resonance. The freq. knob selects the frequency for the filter, the bandwidth knob selects how wide or narrow the filter is (the higher the bandwidth, the broader the effect), and the level knob can be used to add up to 6dB of boost or 14 dB of cut.



Rear Panel Controls

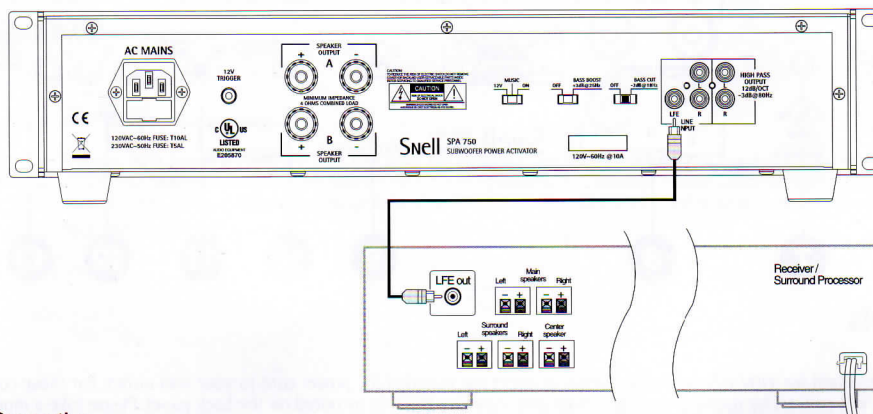
- 6 **AC Power**
The SPA750 comes shipped standard for 110V U.S. operation; simply connect the included IEC power cord to your wall outlet. For those countries requiring 220V input, the Snell factory will convert by rotating the fuse holder and replacing the fuse as noted on the back panel. Please take a moment to familiarize yourself with, especially if you ever anticipate moving the unit to a country with different voltage than your home country. The proper cordset will be supplied in North America, UK, and Continental Europe. In other locations, you should contact your local distributor with any additional cordset requirements.
- 7 **12-volt TRIGGER switch**
ON - Amp is on whenever the front panel switch is in the ON position.
12V - Amp is in standby mode whenever the front panel switch is in the ON position. The SPA750 turns on when a 12-volt power supply triggers it. Be sure to use 1/8" diameter female plug with tip positive.
MUSIC - Amp is in standby mode whenever the front panel switch is in the ON position. The SPA750 turns on when an audio input signal triggers it.
- 8 **Speaker Outputs**
Speaker level output connections carry the amplified signal to the subwoofer drivers. Binding posts will accept bare wire, banana plugs, or spade plugs. Two sets of outputs are provided so multiple systems can be connected. When using both outputs the combined load must have a minimum of 4 ohms impedance!
- 9 **Remote Turn-on**
Selects the turn-on stimuli that will put the amplifier in ready mode. "12V trigger" setting relies on voltage going into the 12V trigger input to activate the amplifier. "Auto" setting senses a signal on the RCA line-level inputs and automatically puts the amp in ready mode. "On" setting puts the amp constantly in ready mode so that it can be controlled by the master power switch on the front panel. In "Auto" mode, the amplifier will take approximately 15 minutes to turn off from ready to standby mode.
- 10 **Bass Boost-- See Filter Settings Chart below**
Selects a bass boost filter with +3dB @ 25Hz, Q=1.4. Allows the user to add boost to the low end response without using the built-in parametric EQ. This leaves the parametric EQ function to address room modes to cut out an excessively loud room resonance while at the same time ensuring deep and impactful bass from larger cone drivers. For 10" drivers it is highly recommended to place bass boost in the OFF position.
- 11 **Bass Cut See Filter Settings Chart below**
Selects an infrasonic filter with -3dB @ 18Hz, Q=.8. It is recommended that this switch always be engaged to provide optimum power handling capabilities. It should only be switched off if the installer wishes to test functionality of the system
- 12 **Line Inputs**
RCA-style jacks receive the audio signal from standard line-level audio sources. When used in a two-channel stereo system, both the left and right audio inputs should be connected and are internally summed to a mono output. The adjustable crossover is in effect when using the left or right inputs. When using an amplifier with an audio source that is mono and pre-filtered, the LFE input should be used; this bypasses the onboard low-pass crossover to avoid any potential unwanted effects due to overlapping filters. NOTE: Bass Boost and Bass Cut are active on both LFE and L/R inputs.
- 13 **High Pass Output**
RCA-style jacks allow the line level input signal to be looped back into other audio equipment. The high pass signal utilizes a 12 dB per octave filter with an output slope of -3dB @ 80Hz. This feature is useful for connecting the signal to distributed audio systems.



NOTES ABOUT HUM

While the SPA750 has been designed to minimize the possibility of hum in the subwoofer system, it is still possible that a hum will occur in rare circumstances. Its safety grounding can create a path for small amounts of 60 Hz energy to travel through the line-level audio system. While not dangerous, this energy can cause difficulty with the subwoofer auto signal sensing circuit, and at the very least will interfere with the quiet enjoyment of your system. The first course of action should be trying to make sure that all of the audio components are connected to either the same electrical outlet, or at least into the same circuit branch. Next, cable TV systems are notoriously the culprit, so be sure to try disconnecting all coaxial feeds that are connected to the system. If this solves the problem, install a coaxial line isolator and reconnect the system. In the very worst case, a line level audio isolator/transformer connected to the line-in of the subwoofer amplifier will usually solve the problem.

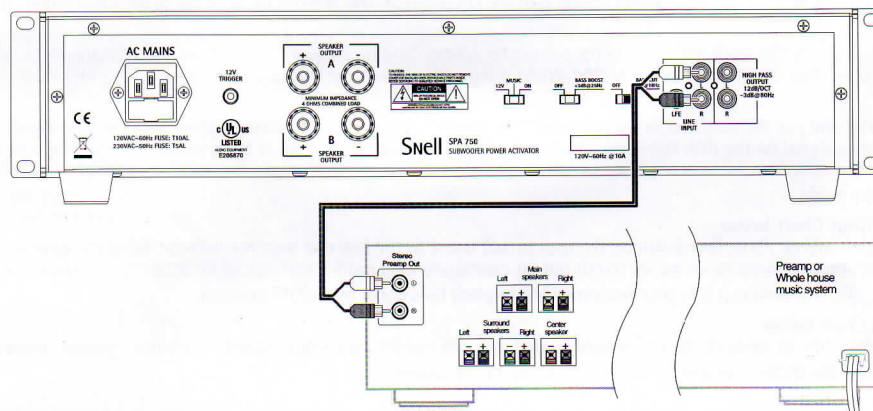
Connecting Audio Components To The SPA750



Multichannel System Connection

Use an RCA cable (not included) to connect your receiver's Sub out or LFE out jack to the LFE/XOVER BYPASS jack on the SPA750 as shown above. In this configuration, the SPA750's internal lowpass filter and front panel Frequency lowpass control knob will be bypassed. The subwoofer crossover point will be set by the multichannel processor.

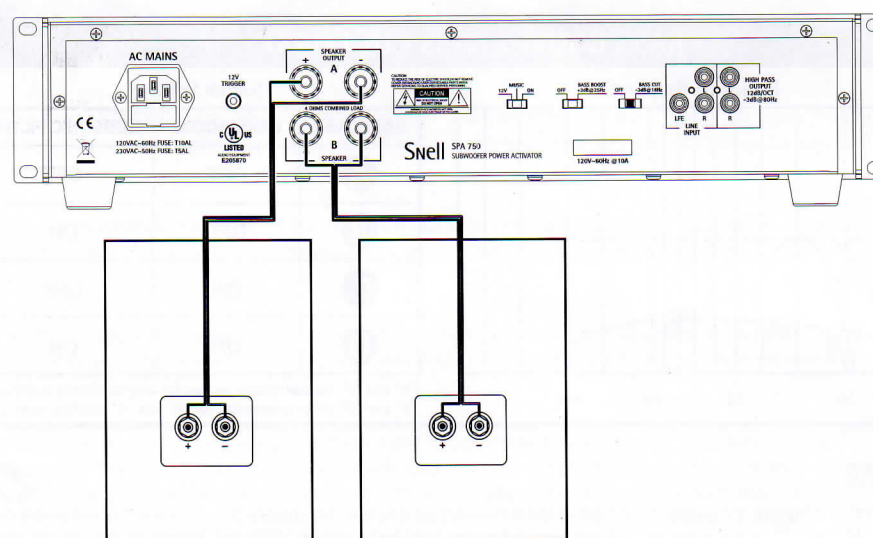
WARNING: To reduce the risk of electric shock and speaker damage, always switch off the SPA750 amplifier when making connections to your system, amplifier or subwoofer.



Stereo Preamp Line-Level System Connection

Use this configuration if you wish to set the subwoofer crossover point using the SPA750's lowpass control knob on the front panel or are using separate components, such as stereo preamplifier. Use a pair of RCA cables (not included) to connect your component's L/R out or Stereo out jacks to the LEFT and RIGHT LINE IN jacks on the SPA750 as shown above. In this configuration, the SPA750's crossover is active and should be set on the lowpass control knob to a frequency that overlaps the low end response of your main front speakers by approximately 10Hz.

WARNING: To reduce the risk of electric shock and speaker damage, always switch off the SPA750 amplifier when making connections to your system, amplifier



Subwoofer Connection

Connect your speaker wires to the SPA750 as shown above

WARNING: To reduce the risk of electric shock and speaker damage, always switch off the SPA750 amplifier when making connections to your system, amplifier or subwoofer.

If Service Seems Necessary

First, contact the dealer from whom you purchased the SPA750. If that is not possible, contact:

Customer Service

Snell Acoustics

2 Chambers Street

Binghamton, NY 13903 U.S.A.

607-352-2498

Or visit our web site at:

www.snellacoustics.com

We will promptly advise you of what action to take. If it is necessary to return your amplifier to the factory, please ship it prepaid. After it has been repaired, we will return it freight prepaid in the U.S. and Canada.

Limited Warranty

For one year from the date of purchase, Snell Acoustics will repair for the original owner any defect in materials or workmanship that occurs in normal use of the subwoofer, without charge for parts and labor. Your responsibilities are to use the system according to the instructions supplied, to provide safe and secure transportation to an authorized Snell Acoustics service representative, and to present proof of purchase in the form of your sales slip when requesting service. Excluded from this warranty is damage that results from abuse, misuse, improper installation, accidents, shipping, or repairs/modifications by anyone other than an authorized Snell Acoustics service representative. This warranty is limited to the Snell Acoustics product and does not cover damage to any associated equipment. This warranty does not cover the cost of removal or reinstallation. This warranty is void if the serial number has been removed or defaced. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Dolby is a registered trademarks of Dolby Laboratories Licensing Corporation.

© 2009 Snell Acoustics All rights reserved.

Specifications subject to change without notice.



For EU Customers Only

This symbol found on the product indicates that the product must not be disposed of with household waste. Instead, it may be placed in a separate collection facility for electronic waste or returned to a retailer when purchasing similar product. The producer paid to recycle this product. Doing this contributes to reuse and recycling, minimizes adverse effects on the environment and human health and avoids any fines for incorrect disposal.

Snell

2 Chambers Street

Binghamton, MA 13903

phone: 607.352.2488

fax: 607-352-2498

email: info@snellacoustics.com

www.snellacoustics.com

542-1066