

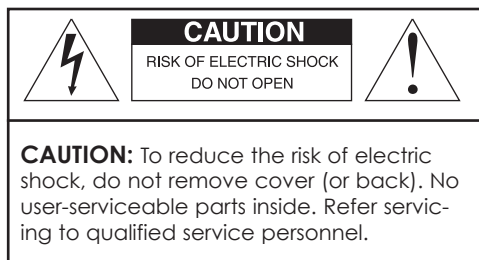
OWNER'S MANUAL

Boomtomb

10" In-Ground Subwoofer System



SAFETY INSTRUCTIONS



• Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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 appliance.

- 1. Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions** - The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions** - All operating and other instructions should be followed.
- 5. Water and Moisture** - To reduce the risk of electric shock, do not expose this apparatus to rain or moisture – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

PORTABLE CART
WARNING



- 7. Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. 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.
- 9. Heat** - The appliance should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.

**APPLICABLE FOR USA, CANADA OR WHERE
APPROVED FOR USAGE**

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH
WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS
ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE
DE LA FICHE DANS LA BORNE CORRESPONDANTE
DE LA PRISE ET POUSSER JUSQU'AU FOND.

- 10. Power Source** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. 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 appliance.
- 12. Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
- 13. Non use Periods** - The appliance coupler shall remain readily operable. The appliance coupler should be disconnected from the apparatus when left unused for a long period of time.
- 14. Object and Liquid Entry** - Care should be taken so that objects do not fall into and liquids not spilled into the inside of the appliance.
- 15. Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - a. The power-supply cord or the plug has been damaged; or
 - b. Objects have fallen onto, or liquid has been spilled into the appliance; or
 - c. The appliance has been exposed to rain; or
 - d. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - e. The appliance has been dropped, or the cabinet damaged.
- 16. Servicing** - The user should not attempt to service the appliance beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17. Grounding or Polarization** - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.

INTRODUCTION

Congratulations on purchasing SpeakerCraft's Boomtomb in-ground subwoofer. Bury this waterproof enclosure in the backyard, in a flower bed, at the edge of the lawn or near the pool and the long excursion 10-inch woofer will shake the earth. Vented through a hooded port, the only exposed element of the system, the bass will support any number of Ruckus, Outdoor Elements or OG speakers in the vicinity. Powered by a dedicated external 250-watt amplifier, the Boomtomb will bring your landscape to life. To be sure that you optimize the performance of your Boomtomb in-ground subwoofer, please read this manual carefully.

CAUTION

Although they are designed to withstand the elements, there are precautions you should take to optimize the long-term performance of your Boomtomb. Keep soil and greenery from covering the external hooded port. If soil accumulates on the hooded port, it can be rinsed away with low water pressure. Chemicals commonly used in the yard can potentially wear the components prematurely. Avoid spraying such chemicals onto or near the Boomtomb. Also avoid placing the Boomtomb where the hooded port will come in direct contact with sprinklers or where water pools. The Boomtomb was designed to work with the Bass Power 250 amplifier or any standard stereo amp. However, to ensure maximum sound quality and performance, we recommend always using the Bass Power 250 (AMPX67250).

SPEAKER PLACEMENT

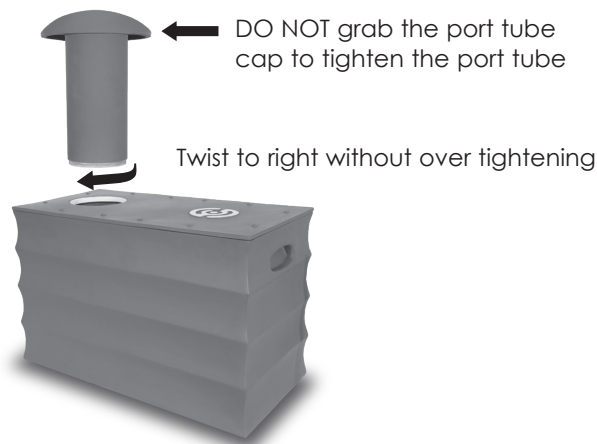
- The Boomtomb system is intended to provide powerful bass in outdoor environments. In large outdoor areas, it may be necessary to utilize additional Boomtomb systems to achieve optimal effect.
- If you desire music over a wide area, it is best to have a larger number of Boomtomb systems playing at low volume, rather than a few speakers playing at high volume. Keep this in mind when designing your outdoor system.
- Direct burial wire or conduit for new yard construction must be run to the location of the Boomtomb. Keep in mind that patios, walls and other features in your yard may make it difficult to get around when wiring.

SPEAKER INSTALLATION

- Attach the threaded port tube to the cabinet. Hardware or tools are not required. (See Figure 1 for assembly)

CAUTION: DO NOT grab the port tube cap to tighten the port tube to the cabinet and DO NOT overtighten the port tube itself to the cabinet. Doing so may damage or break the threads.

FIGURE 1
Boomtomb Assembly



- Dig a hole large enough to completely cover the Boomtomb enclosure but be sure the external hooded port remains expose to the surface.
- A drain plug was added to the enclosure for specially wet conditions. However, we strongly recommend adding a layer of gravel under the enclosure for better water drainage.

SPEAKER INSTALLATION (continued)

- Each Boomtomb Sub has a two-conductor cable exiting the enclosure. This cable should be connected to a similar cable run to the speaker location from your audio system. SpeakerCraft recommends using certified direct burial cable that is ideal for this purpose.
- When attaching the wire to the Boomtomb, it is critical that a high quality connection is achieved. A poor connection may lead to corrosion and a decline in or loss of performance. For best results, use a set of weatherproof wirenuts. Another option is to use a watertight direct burial box or crimp or solder the wires together and use a heat shrink tube to seal each connector.

AMPLIFIER PLACEMENT

DO:

- Place the amplifier with the feet resting on a solid flat level surface.
- Place the amplifier in a well-vented area to provide proper cooling. In areas that lack proper ventilation, such as tight cabinets or racks, it may be necessary to install small fans to create air movement.

DON'T:

- Don't block the ventilation holes on the top or bottom of the amplifier. Never place it on carpeting or similar material.
- Don't place the amplifier in any other position other than horizontal with the feet down. Never place on its side or resting on the back where the terminals are located.
- Don't place the amplifier near heat sources, or in an area that it would be exposed to moisture or excessive humidity.

YOU SHOULD KNOW

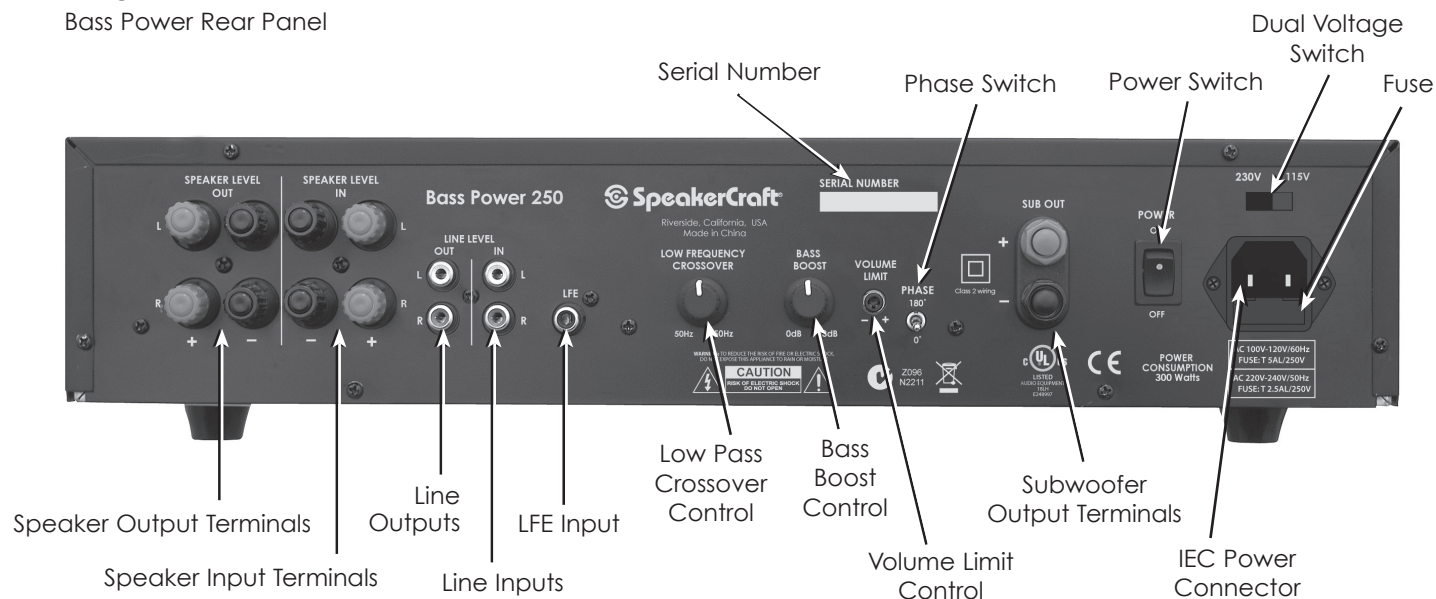
- The power supply may cause a hum to be heard in some components if they are placed very close to the amplifier.

INSTALLATION

Please use Diagram 1 to familiarize yourself with the rear panel of the Bass Power amplifier.

DIAGRAM 1

Bass Power Rear Panel



INSTALLATION (continued)

1. Connecting the Subwoofer to the Amplifier

CAUTION: Only make connections when the amplifier is turned off.

There are 2 output terminals on the back of the amplifier, one positive and one negative. These 3-way binding post output terminals allow for a variety of ways to connect your subwoofer wiring to the amplifier, including stripped wire, spade connectors, etc. You **MUST** use a minimum of 14 gauge speaker wire. Be sure all connections are solid.

2. Connecting the Audio Inputs

CAUTION: To avoid possible damage to the amplifier or subwoofer, only make connections when the amplifier is turned off.

- **LFE (Low Frequency Effects) Input** - If your preamplifier or receiver has a Sub Out or LFE out, you can connect it to the LFE input. Be aware that using the LFE input bypasses the amplifier's adjustable low frequency (low pass) crossover.
- **Line Level Inputs (Left & Right)** - The line outputs from a preamplifier or receiver can be connected to the line level inputs of the Bass Power with RCA cables. If the line level signal is also required by other equipment, you can connect the line level outs to another device. (See the Line Level Outputs section below.)
- **Speaker Level Inputs (Left & Right)** - These inputs can be used if your receiver does not have a subwoofer output or a set of line output jacks. Being sure to observe proper polarity, connect the left and right pair of main speaker output wires from your amplifier or receiver to the speaker level input terminals of the Bass Power amplifier. Then connect a left and right pair of speaker wires from the Bass Power speaker level output to your main speaker terminals. (See Speaker Level Outputs section below)

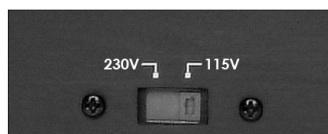
3. Connecting the Audio Outputs (optional)

- **Line Level Outputs (Left & Right)** - Sources connected to the line level inputs can be forwarded to other receivers or amplifiers line level inputs. By doing this you can pass-on the audio signal for use by another component. Connect RCA cables to the line level output sections of the Bass Power and the Line level inputs of a receiver or amplifier.
- **Speaker Level Outputs (Left & Right)** - Connect a left and right pair of speaker wires from the Bass Power speaker output terminals to your main speakers. The main speakers will still be powered by your system's receiver or amplifier.

4. Dual Voltage Switch (See Diagram 2)

For use in the U.S., the Bass Power comes preset from the factory at 115V. For use in other countries, the voltage switch may need to be changed to 230V. (Please note that a plug adapter or alternate power cord may be required.)

DIAGRAM 2
Dual Voltage Switch



5. Connecting the AC Power

Plug the socket of the supplied AC cord into the receptacle on the rear of the amplifier. Plug the 3-prong plug directly into a wall outlet. If you wish to plug the amplifier into a preamplifier or receiver's switched outlet, make sure it is rated at least 600 watts. However, it is always safer to plug the Bass Power directly into an AC outlet.

AMPLIFIER OPERATION

Please use Diagrams 1 & 3 to familiarize yourself with the front and rear panels of the Bass Power 250.

CAUTION: Please read all the following instructions to prevent causing damage to your system.

Front Panel Controls

- **Volume Control**

Use this to match the output level of the subwoofer to that of the main speakers in the system. We recommend that you play a variety of material before selecting a setting. Start with the control turned completely counterclockwise (off) and slowly turn it up. **NOTE:** Turning the volume up slowly will prevent possible damage to the woofer from the system being run too “hot”. Very little movement of the knob is needed.

CAUTION: If a popping sound (clipping) is audible through the subwoofer, it is being over driven, reduce the volume of the amplifier, or speaker damage may occur! (See Volume Limit Control for proper adjustment of volume settings to avoid distortion & damage.)

- **Auto Sense Power On**

The Amplifier is turned on and off by sensing audio signals coming from the receiver or preamp through the input connections. The Active LED on the front of the amplifier will be lit red until an audio signal is sensed. At the moment that an audio signal is sensed on either the Left or Right, line level or speaker level inputs, or the LFE input, the amplifier will then turn on and the Active LED will turn green. Once the audio signal stops, the amplifier will wait five minutes before turning off. **NOTE:** The amplifier's rear power switch must be turned on for the Audio Sense mode to operate. Once the power is switched on, the auto sense circuitry becomes operational. If you will be away for a long period of time, you may turn off the rear power switch or unplug the unit from the outlet if you wish.

- **Protection Circuitry**

If the Protection circuit in the amplifier is activated, the amplifier will turn off and the Active LED will turn red. This indicates one of the following situations has occurred:

- a. The Protection Circuit detected the amplifier was in danger of overheating and has temporarily shut down to protect the system. The Active LED will turn green again and the amplifier will return to “Active” without any intervention necessary.
- b. A fault in the wiring, the speaker, or the amplifier may cause the amplifier to remain off. In this case, turn the rear power switch off and then on. If the amplifier returns to the protection mode, turn the amplifier off and refer to the troubleshooting section of this manual.

DIAGRAM 3

Bass Power Front Panel



Rear Panel Controls

The following controls allow you to blend the sound wave output of the Bass Power to the output of the main speakers in your system.

- **Power Switch**

The switch marked “Power” on the rear panel of the amplifier will turn off all amplifier circuitry including Auto Sense circuitry (See Diagram 1 for reference).

- **Low Frequency (Low Pass) Crossover**

Use this control to adjust the upper frequency limit of the Bass Power. The purpose is to control the overlap of the Bass Power's upper frequencies and the main speaker's lower frequencies. If adjusted well, this allows seamless blending of the subwoofer with the speakers.

AMPLIFIER OPERATION (continued)

- **Bass Boost Control**

This control allows you to increase bass response between 50 and 100Hz for certain types of audio that lacks in bass, such as old recordings, etc.

- **Phase Control**

This control allows you to match the arrival times of the sound waves of the Bass Power and the main speakers to your listening area. While the system is playing, flip the switch to the 180° and back to 0° until the bass increases or decreases. Depending on the subwoofer placement and room acoustics, this control may have little or no effect.

- **Volume Limit Control**

Use this control to adjust the maximum volume setting for your Bass Power system. With the volume limit control and front panel volume control turned all the way down (counterclockwise), turn on the subwoofer and start playing audio through your system. Turn the system up (not the subwoofer) to the highest comfortable level – WITHOUT DISTORTION. Now on the front panel of the subwoofer, turn up the sub woofer volume all the way. There should be no bass playing yet. Next SLOWLY turn up the volume limit control until the subwoofer is playing at its loudest level WITHOUT DISTORTION. Return the system volume and Bass Power front panel volume levels to normal. Now anyone can safely turn up the subwoofer all the way without damaging the subwoofer.

TROUBLESHOOTING

The Bass Power Subwoofer System is designed to function trouble-free. Most problems occur because of operating errors. If you have a problem, please check the troubleshooting list first. If the problem persists, contact Tech Support at 1-800-448-0976 or e-mail us at techsupport@speakerscraft.com.

The Problem	Possible Causes and Solutions
No sound is heard.	Audio cable to the amplifier is not connected properly. Check this and other system component manuals to be sure of proper connections. The cable is bad. Use another cable that you know is good. Loose or frayed wires. Check for solid, clean connections on all speaker wire terminals. Volume Limit Control is set too low. See Volume Limit Control for adjustment procedure.
A hum or buzzing sound is heard.	The sound may be caused by a ground loop in the system. Try to eliminate this by reversing the AC plugs of other components in the system. Try plugging the amplifier into another outlet. Other causes may include faulty cables.
The amplifier will not turn on.	There may be AC power problems. Check the AC circuit and plugs. Be sure the power switch is turned on. Audio cable to the amplifier is not connected properly. Check this and other system component manuals to be sure of proper connections. The cable is bad. Use another cable that you know is good. Loose or frayed wires. Check for solid, clean connections on all speaker wire terminals.
The Protection Circuit cuts in momentarily and then returns to normal.	The circuitry in the amplifier has detected that the amplifier is in danger of overheating. Normally, this would happen infrequently and momentarily. If it persists, the amplifier may need to have more adequate ventilation. Move the amplifier to a better ventilated and/or cooler location. NOTE: The amplifier case may feel cool at the top, but still be overheating internally. Do not use the temperature at the top of the cabinet as a gauge for amplifier temperature.
The Protection Circuit cuts in and does not return to normal.	There may be a fault in the wiring, the speaker, or the amplifier. Turn the power switch off and then on again. If the amplifier immediately returns to the Protection mode, turn it off and check all of the wiring, including all connections at the amplifier, at the subwoofer, and any connections made to the terminals on a wall plate.

SPECIFICATIONS

Boomtomb		Bass Power 250	
Speaker Type:	In-Ground Subwoofer	Type:	Mono Class A-B Dedicated Subwoofer Amplifier
Woofer:	10" Long Excursion Woofer	Power Output:	250 Watts
Enclosure:	Weather Resistant Poly Resin	Crossover:	Variable Low Pass Crossover 50Hz to 150 Hz, LFE 30Hz to 600Hz
Impedance:	4 Ohms	Auto Off Time:	5 Minutes
Sensitivity:	90dB	Auto On Sensitivity:	3.0 mv
Frequency Response:	30Hz - 200Hz	Dimensions (H x W x D):	3 1/2" x 17" x 11 1/2" (89mm x 432mm x 292mm) (add 1/2" for feet & 4" for rear panel connectors)
Power Recommendation:	250 Watts		
Enclosure Dimensions (H x W x D):	15 3/8" x 24 5/8" x 12 1/2" (391mm x 625mm x 318mm)		
Port Tube/Cap Height:	13 3/8" (340mm)		

In our attempt to constantly improve our products, features and specifications are subject to change without notice.

LIMITED LIFETIME WARRANTY

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship, provided the speaker was purchased from a SpeakerCraft Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk of loss or damage in transit is to be borne by the purchaser. If, upon examination at the Factory or SpeakerCraft Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option, may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this Warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This warranty will be void if the Serial Number on the product has been removed, tampered with or defaced.

This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply.

All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.



LIMITED TWO YEAR WARRANTY - Bass Power 250 Amplifier

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship for a period of two years, provided the product was purchased from a SpeakerCraft Authorized Dealer.



SpeakerCraft offers a variety of accessories to make your installation of this and other SpeakerCraft products easy, economical, and professional. Contact your authorized SpeakerCraft Dealer for more information. For technical inquiries, please call 1-800-448-0976 or e-mail us at techsupport@speakerscraft.com. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.



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