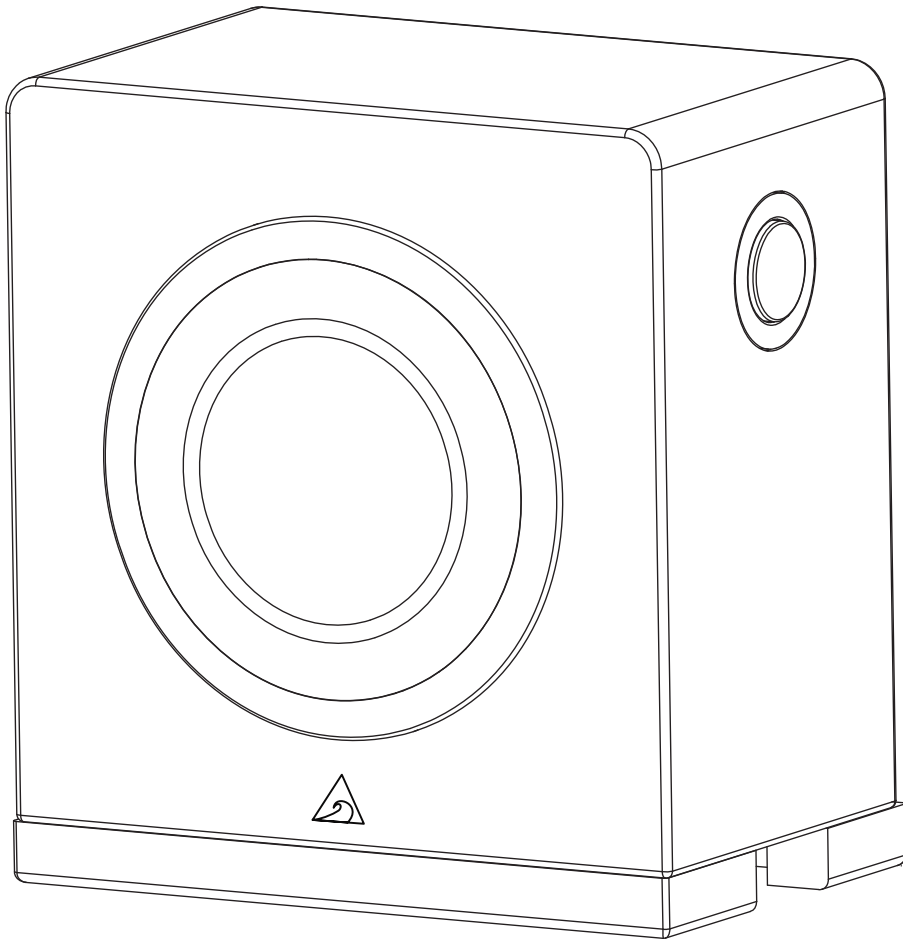


Model FS-S65 & FS-S8

Compact Powered Wired / Wireless Subwoofers



Atlantic
TECHNOLOGY

Instruction Manual

Safety Precautions



CAUTION: To reduce the risk of electric shock, do not remove the cover (or back). No user serviceable parts inside. Refer to qualified personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. This device generates a fair amount of heat. Make sure nothing blocks the ventilation openings on the top and bottom of the unit.



The lightning flash with arrowhead, within an equilateral triangle, alerts the user to uninsulated dangerous voltage within the product enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



The exclamation point within an equilateral triangle alerts the user to important operating maintenance or servicing instructions in the literature accompanying the appliance.

For Future Reference

Record your speaker and amplifier serial numbers and date of purchase here:

Model Number _____

Serial Number _____

Date of Purchase _____

The serial number is found on the back panel.

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Model FS-S65 & FS-S8

Compact Powered Wired / Wireless Subwoofers

Congratulations on your purchase of an Atlantic Technology powered subwoofer. A well designed subwoofer, properly integrated into your system, will enhance your listening pleasure dramatically by providing the bass foundation upon which most music and special effects are built.

These subwoofers are capable of delivering very high output levels and wide dynamic range. When properly placed, either will provide smooth deep bass response extending to 27HZ.

The proprietary high-efficiency amplifier are conservatively rated at 100 and 150 watts RMS.

Each amplifier drives long-throw woofers(either 6.5-inch or 8-inch size) in a robust enclosure for accurate deep bass with very low distortion.

The FS-S65 and FS-8 active subwoofers offer performance and versatility to the music and movie enthusiast. The subs can be connected via both traditional speaker wire to your source equipment or wirelessly to other SKAA enabled products.

SKAA® is a wireless audio standard, which proven by professional's in live music performance, creates an independent Hi-Fi audio superhighway in your home free from shortcomings of Wi-Fi® and Bluetooth® such as complexity, range, lip-sync latency, inter-speaker time alignment, sound quality, dropouts and interference.

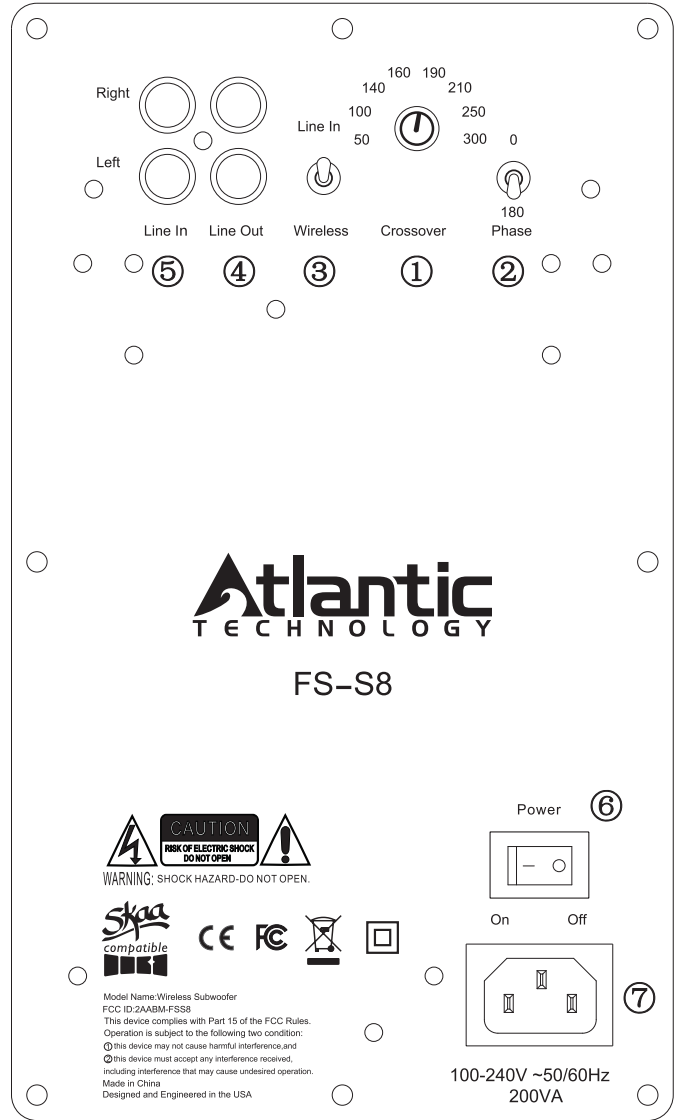
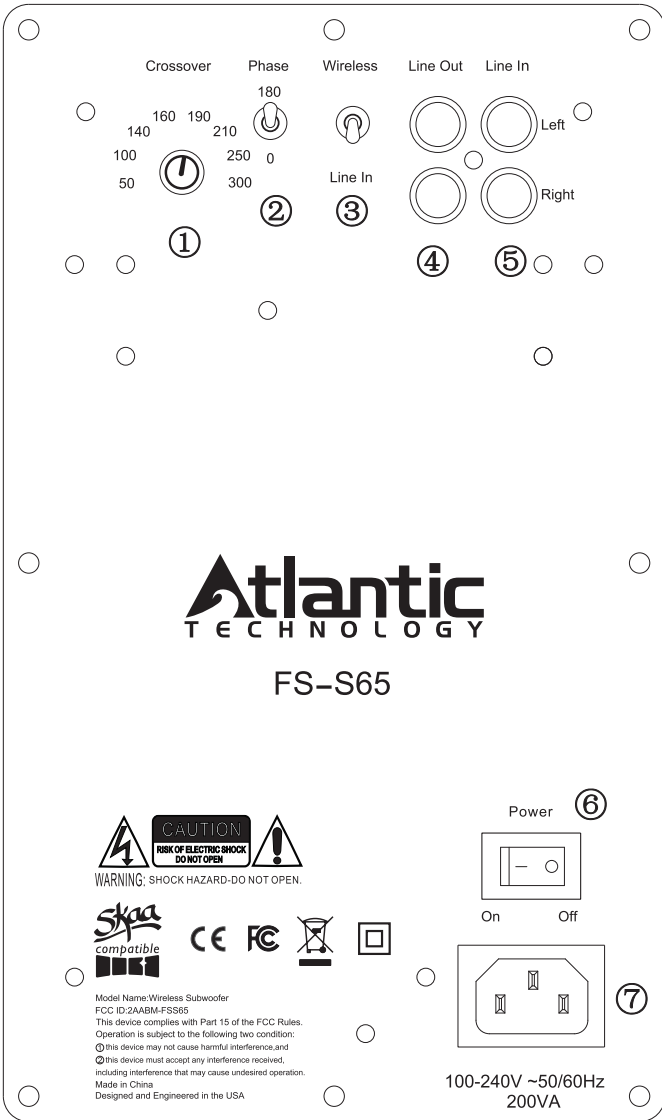
SKAA can simultaneously multi-room cast high-fidelity 16 bit, 48 kHz audio to four additional SKAA products up to 150 feet away.

Atlantic Technology has a line of SKAA-enabled multi-room products which includes the FS-252 active wireless bookshelf speaker system, STA-200 2-channel wireless amplifier, Gatecrasher3 sound bar, as well surround speakers and outdoor speakers. The FS-65 and FS-8 are an ideal complement to any of these SKAA products.

Subwoofer Panel Diagrams

FS-S65

FS-S8



1 Crossover Frequency (Low Pass)

Sets the upper frequency limit of the subwoofer.

2 Phase Switch

Set for stronger output in the narrow frequency range covered by both the satellites and the subwoofer.

3 Line In and Wireless Switch

Choose for Line in or wireless connection

4 Line Out**5 Line In**

Left and Right channel RCA jacks for connecting the stereo or mono subwoofer signal output of a preamp/receiver or other signal source.

6 Main Power

Set to OFF if the subwoofer is not going to be used for an extended period of time (more than two to three weeks).

7 AC Power Input

Use the included power cord to connect your amplifier to a wall outlet.

Features

Your Atlantic Technology powered subwoofer has been engineered using the latest technology and finest components available.

- **Long-throw composite cone bass driver, each with a vented motor structure and high temperature, 4-layer voice coil.**

This powerful driver design has a very stiff cone that acts like a piston throughout its operating range. Its massive magnetic motor assembly and high temperature component parts deliver exceptional performance and reliability.

- **The sturdy enclosure design delivers low distortion and extended deep bass output.**

As with all Atlantic Technology subwoofers, we have paid close attention to providing accurate musical bass reproduction along with terrific special effects.

- **High-efficiency 100 and 150 watt amplifiers.**

The output stages are capable of very high current delivery for exceptional driver control. The digital design ensures cool operation. Each amplifier has been precision matched and equalized to its specific driver. The result is powerful, controlled bass with great articulation and authority.

- **An adjustable (50Hz to 300Hz) @ 12dB per octave low pass crossover.**

The steep 12dB per octave slope allows for much better blending with the satellite speakers while making the woofer less localizable.

Note: If you are using a surround processor or receiver that includes its own low-pass subwoofer output (or a THX-certified processor/receiver), set the subwoofer crossover control to the Bypass position.

- **A Phase switch (0°/180°).**

This switch allows better acoustic matching with satellite speaker systems. Be sure to try the Phase switch in both positions when you set up your subwoofer. If you hear increased bass output in one position, leave the switch in that position.

- **Automatic standby operation.**

The Automatic Standby function features signal sensing turn-on with 20 minute turn-off delay.

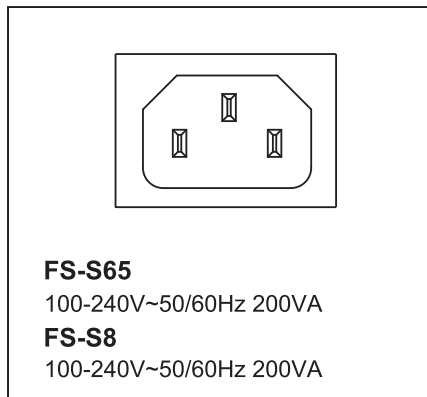
Connecting Your Subwoofer Using Line In Connector
Use the low-level (RCA jack) subwoofer line out of your surround sound receiver/processor. Simply connect your subwoofer with a high quality shielded cable as shown in the diagram on the opposite page. Please consult your processor/receiver manual for further information.

Warning: To prevent risk of electrical shock or damage to your equipment, always unplug all component AC cords before proceeding with speaker and component connections! The last step in wiring your system should be plugging in the AC cords!

Power Connection

Connect the power cord to an AC outlet only after making all other connections to the subwoofer. This will avoid any chance of accidentally activating the subwoofer while wiring.

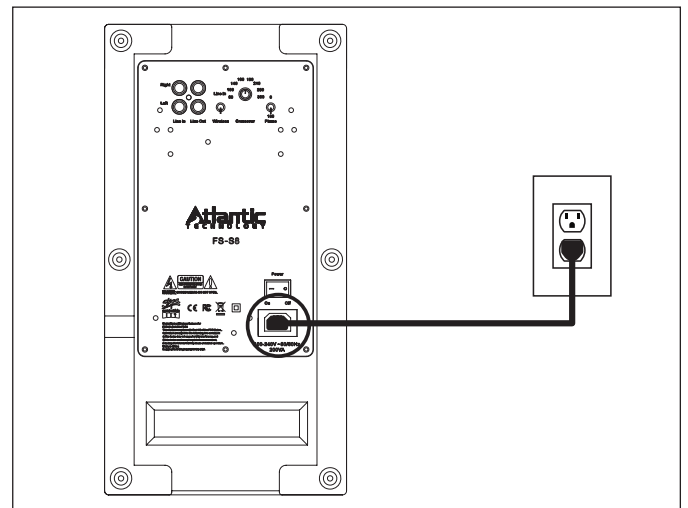
Atlantic Technology does not recommend plugging the subwoofer into the switched outlet of an amplifier, preamplifier, or receiver. The power demands of the subwoofer amplifier may exceed the power rating of the switched outlet and may damage the equipment.



Subwoofer Line Out to Low Level In

Run an RCA cable from your receiver's Sub Out jack to either the L (**LEFT CHANNEL**) input jack or R (**RIGHT CHANNEL**) input jack on the back of the powered subwoofer. If your receiver/processor has stereo subwoofer outputs, connect these to the L (**LEFT CHANNEL**) and R (**RIGHT CHANNEL**) jacks on the back of the powered subwoofer.

AC Connection To FS-S8 (FS-S65 is similar)

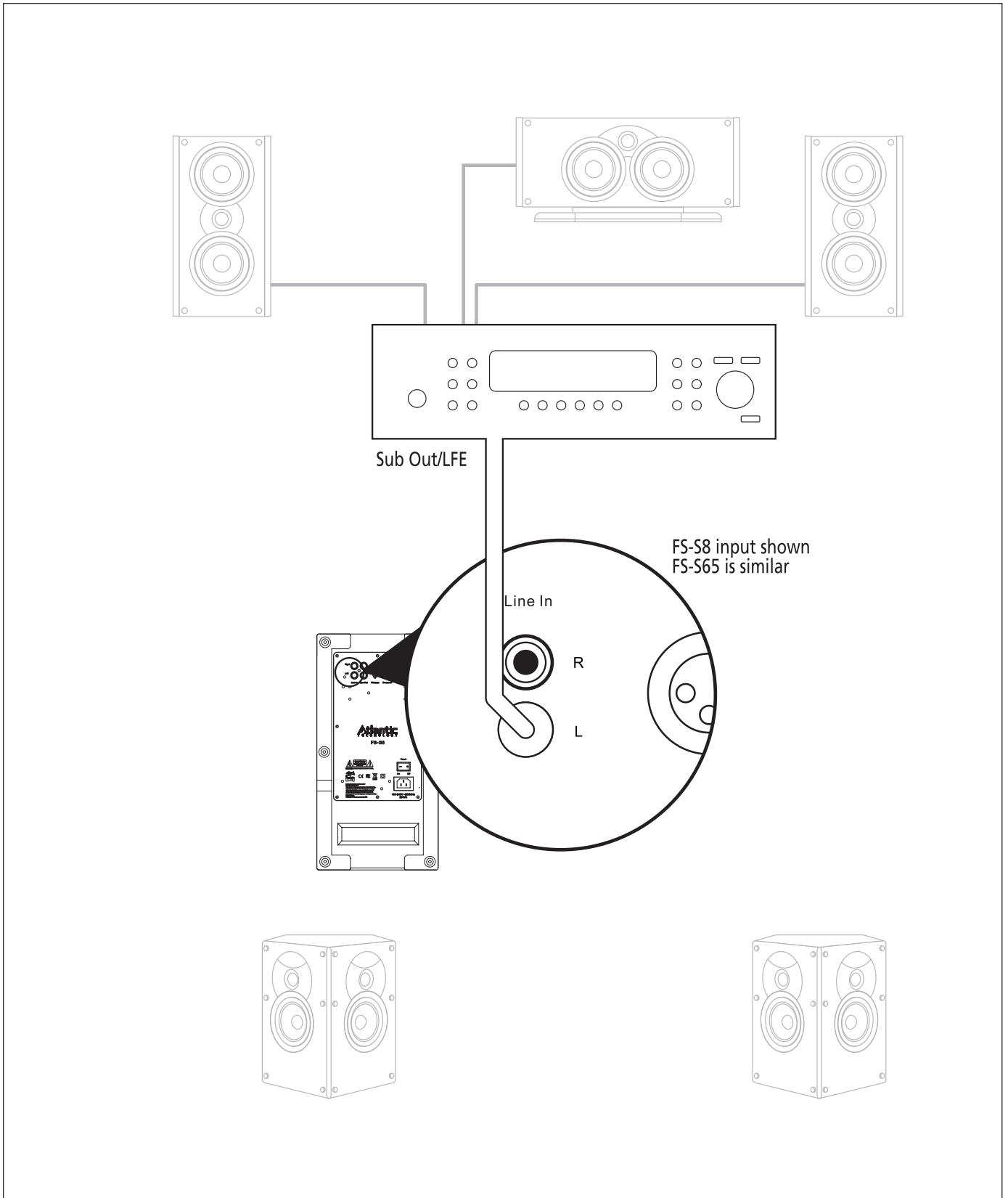


Normal Operation

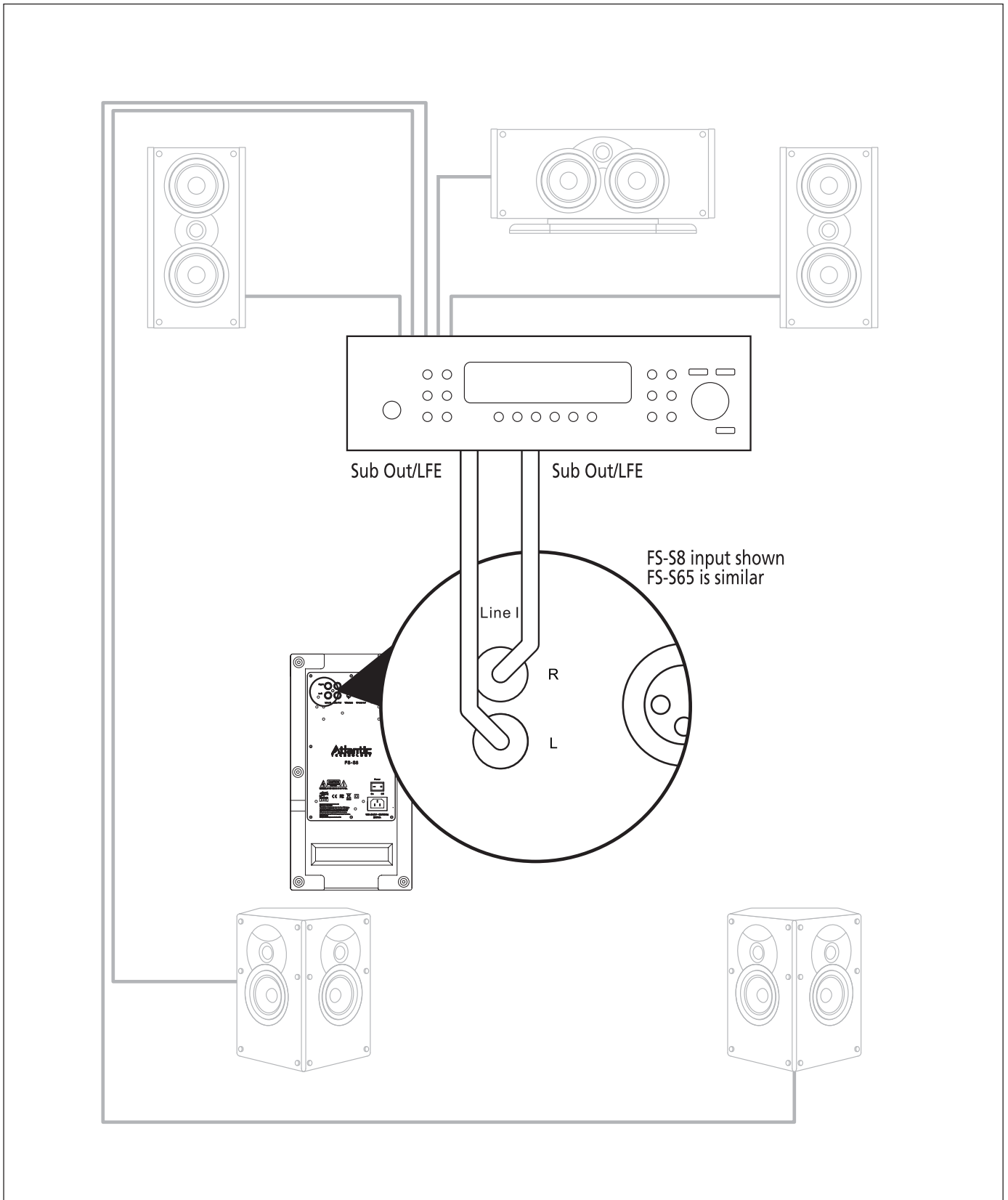
The subwoofer turns on in the presence of an audio signal from your system. After around 20 minutes with no audio signal detected, the amplifier enters its low-power draw Standby mode.

When the sub is on, the power LED located on the panel glows green. The LED glows red in the Standby mode.

Monaural Low Level Subwoofer Connection



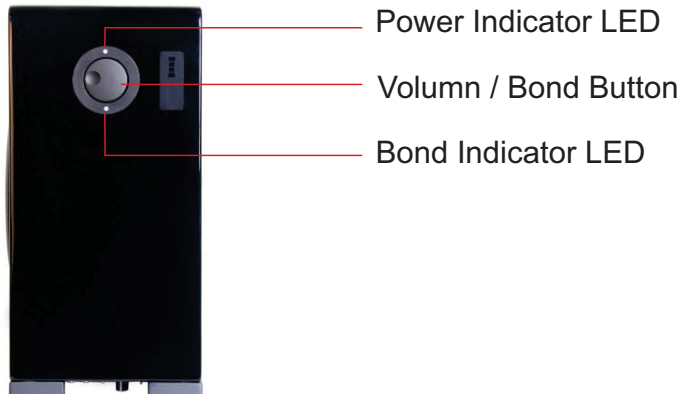
Stereo Subwoofer Connection



*If your audio receiver or preamp is equipped with stereo subwoofer LFE outputs, connect to both L&R on the sub.

Wireless / Using Your FS-S65 & FS-S8 As A SKAA Receiver

(Need to switch the knob ③ to Wireless position)



Bond Button	Command	Indicator Meaning
Hold a few seconds	Add / Delete Manually add / delete the current transmitter to / from your Green List	● to ● = Added ● (flash) = Deleted
-	Auto Add SKAA will automatically add the current Amber transmitter to your Green List if you listen to it for 30 minutes	● to ● = Added
1 Click	Green Mode Rotate through your list of favourite transmitters (Green List) — when a favourite transmitter is found, the search stops and audio plays from that transmitter	● (dim) = Hunting ● (flash) = Next one ● (bright) = Bonded
2 Clicks	Amber Mode Explore for new, unknown transmitters (ones which are not already on your Green List)	● (dim) = Hunting ● (bright) = Bonded

Bond Button	Command	Indicator Meaning
3 Clicks	Mute do again to Unmute; any Click command will first Unmute and then do its function	●, ● or ● = Muted (slow flash)
4 Clicks	Red Mode If you have 2 or more transmitters on your Green List, power on just the one you want to hear and it plays automatically.	● (dim) = Hunting ● (bright) = Bonded
6 Clicks	Factory Reset Clear Green List. Start Over!	● (flash) = Reset Done
Hold during power on	Make a Cluster of Receivers: 1. Power off all transmitters and receivers 2. Power on the Master receiver while holding down its Bond Button—hold the button down until the Indicator begins to flash Red 3. With the remaining receivers within 3 meters of the Master receiver, power on the first one, wait for its Indicator to flash Red and then power on the second one; continue until all of them are powered on 4. Once all of the Indicators stop flashing (turn solid Red), power off all of the receivers	● (flash) = Receiver has entered 'Cluster Up' mode ● (bright) = The Cluster has been successfully made

SKAA cmd

SKAA cmd is an optional App available for iPhone, iPad, iPod, Android, Mac and PC. You can find it on our website www.skaa.com/tlc/ or in the iOS App store and Google Play. SKAA cmd is great for getting the most out of your FS-S65 & FS-S8 To use SKAA cmd, throw your FS-S65 & FS-S8 into SKAA mode, download the app, insert a SKAA transmitter and check out all of the customizable features of SKAA. SKAA cmd only works with seven specific SKAA transmitters: Izabella, Diz, Ursula, Gemma, Akiko, Talisa and Cassandra. The FS-S65 & FS-S8 will not work with SKAA cmd unless you are using one of the supported transmitters.

SKAA CMD

— THE APP YOU DON'T REALLY NEED!

SKAA cmd works with these 7 transmitters:

- Izabella
- Diz
- Ursula
- Gemma

- Cassandra
- Akiko
- Talisa

Click a receiver's name to change it to something more descriptive

Click a speaker icon to Mute and Unmute the speaker. The speaker icon flashes and the slider loses its color when the speaker is muted.

More than one green bond block means this is a Cluster. Download the SKAA Receiver User's Guide to learn more about Clusters.

Customize your transmitter's name by clicking on it

Click here to set the transmitter's power mode:

- Red = on
- Grey = off
- White = Auto-On;

The vertical bar in the icon means the transmitter is on.

Click a green bond block to set audio channel routing:

- Left
- Right
- Mono
- Stereo

Not all of these options are enabled on all receivers.

Change just this receiver's volume by dragging this slider

Each one of these bays shows an SKAA receiver or Cluster that is bonded to your transmitter.

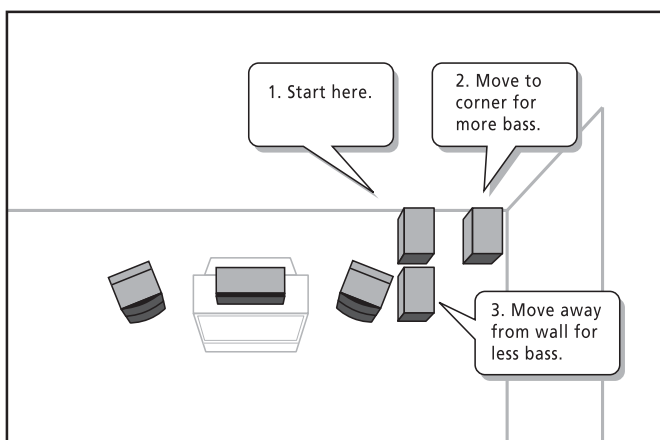
Click this triangle to mute all receivers at once. Click each speaker icon individually to make it resume play.

This master volume slider controls all receivers bonded to this transmitter

Placement and Operation

Generally speaking, the best location for your new subwoofer is the front of the room, close to a corner (see diagram below). The closer the subwoofer is placed to a wall and especially a corner, the stronger the bass response.

A Helpful Hint: A useful experiment is to place the subwoofer right at the prime listening position. Move your couch or chair out of the way and put the sub in its place. Then play music with strong, consistent bass content. Walk around the room, listening to the subwoofers bass output. When you locate a site with ample bass, you've found a good site for the sub. In most rooms, this will be near a corner.



System Set Up

When setting up a complete home theater, we recommend that you use a Sound Pressure Level meter. To use this meter, turn on your system, put the Processor/Receiver in the Test Mode and set its main volume control to 0dB. Sit in the prime listening position, set the SPL meter to the 70dB scale, Slow Response, and C Weighting. Now, holding the meter pointed up and in front of you, let the system cycle its test tone from speaker to speaker and set every speaker to 75dB using the individual level settings in the Processor/Receiver. Use the main Volume control on the subwoofer to achieve a balance with the main speakers, then use the processor to fine tune the bass output.

Try watching several different movies and keep in mind that the goal is to have a system that sounds like you're actually in the movie. Should you have difficulty achieving the correct subwoofer volume this way or should your Processor/Receiver not have a subwoofer level control, just use the subwoofer's volume control to set the balance. If you decide not to use an SPL meter, try to set all the speaker levels the same using the Test Tones.

Subwoofer Tuning Without Aides (SPL Meter or Test Tones)

Start your listening with the subwoofer Lowpass control set at 80Hz (or in the Bypass position if you're using a component with a built-in low-pass output). Set the phase switch to normal and the Volume control to the "12 o'clock" position. If possible, have another person be ready to adjust the subwoofer level control in response to your direction.

Play some music you know has consistent bass content. From your normal listening position, determine whether the subwoofer is filling in the bass of the music evenly. If adjustment is necessary, adjust the subwoofer level up or down.

Once you have achieved a good balance between the subwoofer and the main speakers, have someone flip the Phase switch between its two settings. Listen for a subtle difference in output. Use the stronger position, regardless of whether it is "in phase" or reversed. If the Phase switch results in increased output after setting the subwoofer level control, readjust the level control for best balance between the main speakers and the subwoofer.

How Much Bass Is Enough?

Sometimes people prefer more bass impact for movies. Using the bass level you prefer for movies while listening to music can result in overpowering and unnatural bass reproduction. You may need to determine a "movie" level and a "music" level. If this is the first time you have balanced a subwoofer with a main system, it's easy to set the subwoofer to play too loudly. The Home Theater Police will not arrest you. You might find you back off on the sub output after a week or two of use.

The Phase Control

A switch that reverses the phase of the subwoofer is provided on the amplifier panel. Listen to a monaural musical source with strong, consistent bass content while someone else flips this switch. The switch only affects the narrow range of bass output that is shared between the "upper end" of the subwoofer's output and the "lower end" of the main speaker's output. Leave the switch in the position that has stronger output. Then fine tune the subwoofer's low pass and volume adjustment.

It is possible you will not hear a difference between the two settings of this switch. If you do not hear a difference, it indicates your main speakers and subwoofer are not precisely "in-phase" or "out-of-phase" at the narrow range of bass covered by both speakers.

If so, just use the low pass and volume adjustments to set the subwoofer balance.

A Word About Bass, Center Channel Modes and System Set Up

Many surround processors and receivers feature a Wide and Normal mode for the center channel speaker. Atlantic Technology recommends that the center channel be operated in the Normal mode when using a powered subwoofer. The center channel speaker will sound more dynamic and the intelligibility of the system will generally be improved when in the Normal mode.

With discrete digital 5.1, 6.1, or 7.1 channel systems (Dolby Digital, DTS, etc.), many controllers provide a Bass Management option, which lets you set the front and rear speakers in a limited bandwidth (Small) or full range (Large) mode. When using a subwoofer with Atlantic Technology speakers we recommend setting such a controller to the Small position for all the speakers in the system.

Care of Your Subwoofer

Atlantic Technology subwoofers are constructed from thick Medium Density Fiberboard. MDF is a non-resonant material ideal for speaker system enclosures. To clean the cabinet you may use a soft cloth either dry or slightly dampened with clean water. Be careful not to wet the cabinet or allow any water to enter the cabinet seams. Avoid placing your speakers in direct sunlight or near a source of heat that may, over time, damage the finish.

IMPORTANT: Save The Carton Assembly!

Save all packing materials until you are certain the system has suffered no damage in shipment. If you find such damage, either visible or internal, contact your dealer immediately for the proper return procedure. If at all possible, save the carton assembly. There is no substitute should you need to move or ship your subwoofer for any reason.

Troubleshooting Guide

Once your subwoofer is set up, you should have many years of maintenance-free enjoyment from your system. However, if you should encounter a problem, refer to the following guide to help you find the solution. If a problem persists, you should contact your local authorized Atlantic Technology dealer.

Problem	Possible Cause	Possible Solution
No bass output	AC power cord unplugged or plugged into a non-working outlet.	Plug into a working outlet.
	Input cables not securely connected or defective.	Check all connections, then try another input cable.
Audible buzz or hum	Input cable not securely connected or defective.	Check all connections, then try another input cable.
	Ground loop through antenna or cable TV system input.	Test by disconnecting antenna or cable input leads. If hum goes away, install isolation balun(s) at that point.

Specifications

Shared Features	Auto signal sensing on/off/bypass 50-300Hz adjustment with 12dB/octave lowpass Absolute phase invert switch	High efficiency tracking amplifier four-layer aluminum voice coil Vented pole motor structure
	FS-S65	FS-S8
Bass Driver	6.5" long-throw composite cone	8" long-throw composite cone
Output Power	100W RMS	150W RMS
Distortion (amplifier)	<0.5%	<0.5%
Frequency Response	27Hz – 300Hz ±3 dB	27Hz – 300Hz ±3 dB
Low Level (line)	20k Ohms	20k Ohms
Dimensions	W H D	W H D
	inches 11.8 x 12.8 x 7.1 mm 300 x 325 x 180	13.8 x 23.6 x 7.1 350 x 600 x 180
Weight	20lbs/9kg	22lbs/9.9kg
AC Power Compatibility	110VAC 50/60Hz & 240VAC 50/60Hz	110VAC 50/60Hz & 240VAC 50/60Hz

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FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the

user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator&your body.