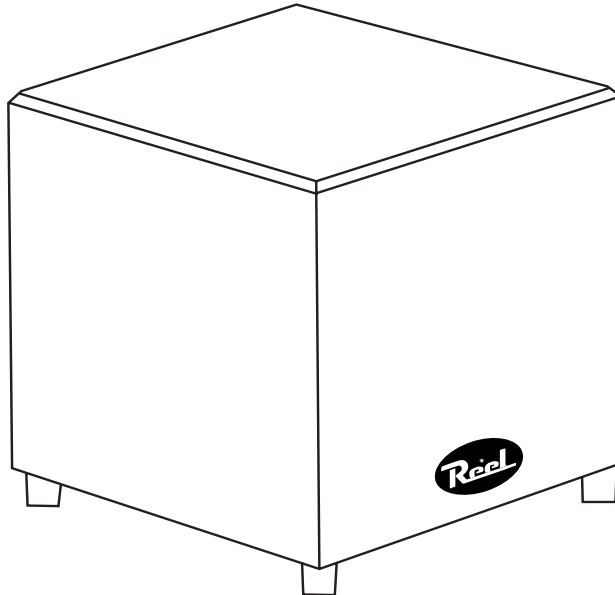




Powered Subwoofer Manual



For RSW-810, RSW-1012, RSW-1215

2003

IMPORTANT SAFETY PRECAUTIONS



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, **DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

1. **Read Instructions** – All the safety and operation instructions should be read before the subwoofer is operated
2. **Retain Instructions** – The safety and operating instructions should be kept for future reference.
3. **Heed Warnings** – All warnings on the subwoofer and in these operating instructions should be followed.
4. **Follow Instructions** – All operating and other instructions should be followed
5. **Water and Moisture** – The subwoofer should not be used near water. For example, near a bathtub, wash-bowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool.
6. **Ventilation** – The subwoofer should be situated so that its location or position does not interfere with its proper ventilation. For example, the system should not be situated on a bed, sofa, rug or similar surface that may block airflow past the rear heatsinks or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air past the heatsinks.
7. **Heat** – The subwoofer should be situated away from sources such as radiators, heaters, furnace outflow vents or other devices which produce heat.
8. **Power Sources** – The subwoofer should be connected to a power supply only of the type described in these operation instructions or as marked on the component.
9. **Grounding or Polarization** – The subwoofer is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is an intentional safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact an electrician to replace the obsolete (unpolarized) outlet. Do not defeat the safety purpose of the polarized plug.
10. **Power Cord Protection** – Power supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles and the point where they exit the subwoofer. To prevent electric shock, do not use the subwoofer polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.
11. **Non-use Periods** – The power cord of the subwoofer should be unplugged from the outlet when left unused for a long period of time.
12. **Damage Requiring Service** – The subwoofer should be serviced only by qualified service personnel when:
 - A. Subwoofer power supply cord or the plug has been damaged; or
 - B. Objects have fallen or liquid has spilled into the subwoofer; or
 - C. The subwoofer has been exposed to rain; or
 - D. The subwoofer does not appear to operate; or exhibits a marked change in performance; or
 - E. The subwoofer has been dropped or damaged.
13. **Servicing** – The user should not attempt to service the subwoofer beyond those means described in this operating manual. Opening or removing covers may expose you to dangerous voltages or other hazards. All servicing should be referred to an authorized Service Center.
14. **Cleaning** – Unplug the subwoofer from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
15. **Attachments** – Do not use attachments not recommended as they may cause hazards.
16. **Accessories** – Do not place the subwoofer on an unstable cart, stand, tripod, bracket or table. The subwoofer may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by manufacturer or sold with the product. Any mounting of the subwoofer should follow manufacturer's instructions and should use a mounting accessory recommended by manufacturer. A subwoofer and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
17. **Lightning** – For added protection for the subwoofer during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.
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. **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.
20. **Replacement Parts** – When replacement parts are required, be sure the service technician has used manufacturer specified parts or parts with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. **Wall or Ceiling Mounting** – The product should be mounted to a wall or ceiling only as recommended by manufacturer.
22. **Object and Liquid Entry** – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

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

CAUTION: To prevent electric shock, match wide blade of plug to wide slot and fully insert.

Subwoofer Operating Instructions

Thank you for acquiring a **Reel Acoustics** powered subwoofer. Please read the following information and directions to achieve the best performance from your Reel Subwoofer. Once properly set-up, your subwoofer will provide reliable, high-performance sound for many years to come.

Please remember to heed to any warnings on the product and in this Owners Manual.

Important Notes:

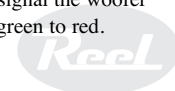
- Read and retain this Owners Manual for future reference.
- Keep original or copy of your sales receipt for warranty purposes.
- Do not open unit. There are no user serviceable parts inside.
- Avoid temperature extremes. This unit should not be operated with ambient temperatures below 5C or greater than 40C.
- Avoid damp or wet areas. Avoid direct sunlight.
- Clean with a damp, lint free cloth. Do not use spirit-based cleaners.
- Trailing cables are dangerous. Secure all cables so no one can trip or cause damage to your equipment.

Placement:

- Subwoofer performance is greatly affected by room placement. These notes will help you locate the best place for your listening preference.
- The Reel Acoustic Subwoofer is designed to integrate with any music system and enhance the bass performance of all speakers.
- The cabinets of the Reel subwoofer are designed to blend with most doors. It can be placed beside your main system, behind the sofa or in a corner.
- Room configuration, materials and speaker placement will greatly affect the performance of your speaker system. Reflections from glass, wood and walls, as well as absorption from couches, carpets and drapes will affect the sound in rooms with varying degrees.
- As a general rule, bass increases as the subwoofer is placed closer to a wall. Therefore bass output is maximized when the unit is placed in a corner.
- It is recommended that you place the subwoofer along the same wall as your main speakers.
- One technique is to temporarily place the subwoofer very close to the regular listening position. Play some music and walk around the room listening for your desired sound. This then would be the ideal location to place the subwoofer.

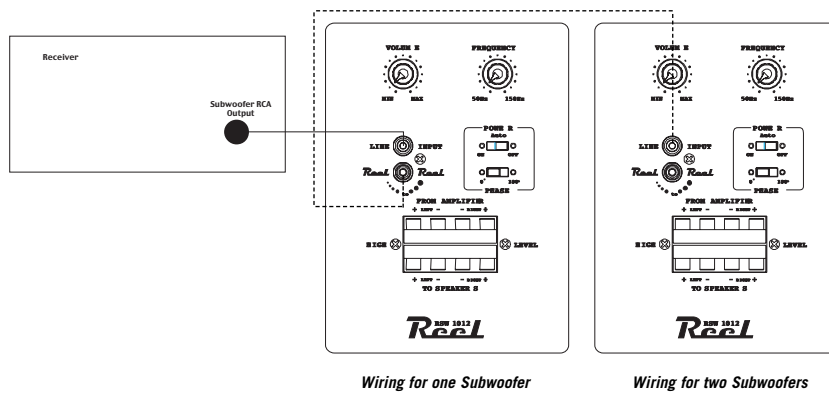
Connections & Controls

- **Important:** When integrating your Reel subwoofer into your audio/video system or before making changes to the connections, please make sure that all power to your entire music system is turned off and the subwoofer is unplugged.
- **Power Cord:** Plug the main power cable into any AC outlet.
- **Power Indicator:** The LED (Light Emitting Diode) on the Reel logo tells you the state of operation. Red means the unit is plugged into AC but in standby mode. Green means unit is receiving signal and in performance mode. No light means not plugged into the AC outlet.
- **Power Switch:** All Reel woofers have a "ON/OFF/AUTO" power switch. In the ON position the amplifier is always active and waiting for a signal from your TV or receiver to operate. In the OFF position the amplifier is off and the sub will not play. In the AUTO position the woofer will turn on as soon as the amplifier sees a signal from your TV or receiver. After 15 minutes of no signal the woofer will go into standby mode, shutting down the amplifier and returning the LED from green to red.



- **Low Level Input:** This RCA terminal is the preferred connection to send music from your TV or receiver to the subwoofer. Most receivers have a single RCA jack for subwoofer output. If your receiver has left and right subwoofer outputs a “Y” jack should be used to convert the two RCA connectors into a single one. Please consult your Reel Acoustics dealer for more information.
- **Reel To Reel Output:** This RCA output allows the simple connection of additional Reel subwoofers to any system. You will need to determine the length of RCA cable you will need for additional woofers. Using the “Reel to Reel” RCA jack on your first subwoofer, run the single RCA cord to the RCA input of the second sub. Repeat this instruction to add as many Reel subwoofers to your system as you require. When using multiple subwoofers, Reel Acoustics strongly recommends multiples of the same model for best performance results (eg: 4 x RSW-1215).
- **L-R Speaker In Terminals:** Speaker wire from your receiver or amplifier is attached here to deliver signal to the subwoofer.
- **L-R Speaker Out Terminals:** Speaker wire from these connections out to your main/front speakers.
- **Frequency Control:** Start with this control in the middle and make fine adjustments until the program has pleasing and natural sound quality on both bass voices and music. If you attach your main speakers to the subwoofer the crossover point you select will then act as the high pass filter to those units (eg: frequency set at 100 Hz: the subwoofer will play all information below this and your main speakers will play everything above this).
- **Volume Control:** Start with this set at minimum. The idea of your subwoofer is to blend or balance with the rest of your system. Play different cuts of music/video and adjust to achieve desired output.
- **Phase Switch (RSW-810 & RSW-1012 only):** There is no right or wrong position for this switch. Due to the long wavelengths of low sounds and position of the sub in your room relative to your listening position, this switch will allow for that extra system tuning. Play a familiar cut of music, flip the switch to where it sounds better and then enjoy.
- **Phase Knob (RSW-1215 only):** There is no right or wrong position for this control. Turning the knob allows you to “align” the subwoofer so that the sounds coming from the sub and the rest of your speakers arrive at your ears at the same time. In most cases, this knob will be all the way on or all the way off. Anywhere in between allows for the fine tuning of the system.

Figure 1



Hook-up - use one or the other, not all methods.

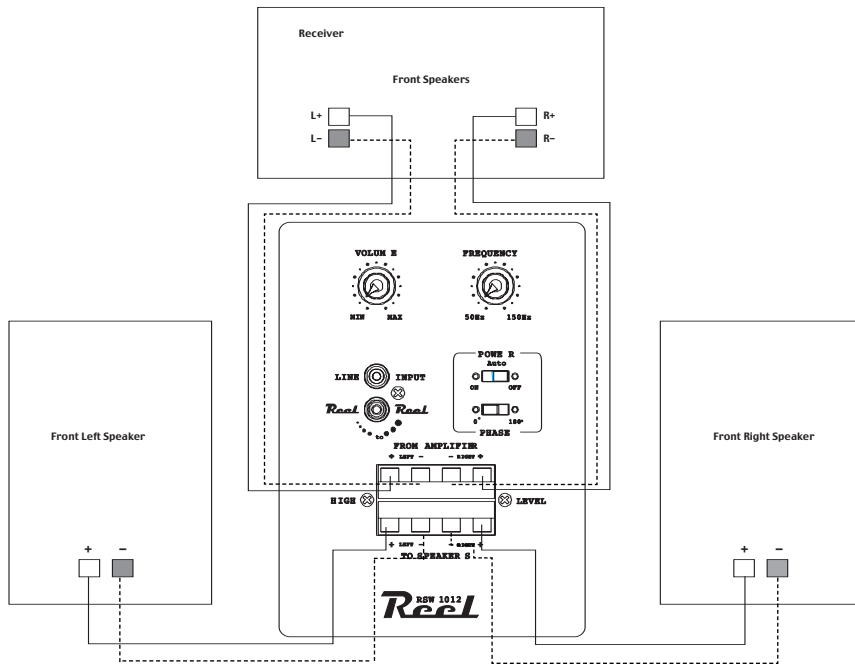
1. Connection with Audio RCA Cables (see Figure 1 on previous page)

Connect a single RCA cable from your receiver's Subwoofer output to your Subwoofer's line level input. Most receivers have a single RCA jack for subwoofer output. If your receiver has left and right subwoofer outputs or if you are using the variable audio outputs from your TV as an input source, a "Y" jack should be used to convert the two RCA connectors into a single one. Please consult your Reel Acoustics dealer for more information.

2. Connection with Speaker Wire – RSW-810 & RSW-1012 only (see Figure 2 below)

Please follow correct polarity (+/–, red/black) when using speaker cable. All speaker cables have indication on the insulation, either by colour, writing or ribs, to determine positive or negative conductors. From your receiver or amplifier connect front left and front right speaker cables to the high level inputs on the subwoofer and then from the high level speaker outs on your main speaker.

Figure 2



3. Connection to TV

Many new TV's are equipped with variable audio RCA outputs. These outputs vary in signal level with the TV's volume control. These connections can be made directly to the subwoofer to enhance the bass performance of the TV's audio speakers.



Trouble Shooting

Power LED on front of subwoofer does not light

- Check to make sure subwoofer is plugged into a working AC outlet and that the power switch is in the ON or AUTO position. If the subwoofer still doesn't work return it to your dealer for service. There are no user serviceable parts inside.

No sound from the subwoofer if using the Low Level Inputs

- Check subwoofers connections to and from receiver. Look for shorted speaker cables.
- Check to see if music is playing on your front speakers.
- Check the line level cable from receiver to subwoofer.
- If you are using a processor, check sub out adjustments and make sure they are on and at the proper levels.
- Check subwoofers volume control. If it is fully counterclockwise there may be very low sound.
- The subwoofer only produces low bass frequencies. If the material does not contain bass, (ie: solo female vocal) the subwoofer will not produce any output.

No sound from any speakers when using the High Level Inputs

- Make sure receiver is on and a source of signal is playing. Check volume setting on receiver.
- Check the receiver's speaker selector switch is on and in the appropriate position for your connection to the subwoofer (terminal A or B, 1 or 2)
- Check all connections between all associated equipment. Specifically from the output of the receiver's speaker terminal to the input of the subwoofer's input connections.

Limited Warranty

- The Reel Acoustics warranty on the speaker remains in effect for five years from the date of purchase.
- The Reel Acoustics warranty on the electronics components and the enclosure remains in effect for two year from the date of purchase.
- The Reel warranty protects the original owner, provided the Reel product was purchased from an Authorized dealer.
- A copy of the original dated bill of sale must be presented whenever warranty service is required.
- Except as specified below, the Reel warranty covers all defects in material and workmanship.

The following are NOT covered

- Damage caused by accident, misuse, abuse, product modifications or neglect.
- Damage resulting from the performance of repairs by someone not authorized by Reel.
- Damage caused by installation of parts that do not conform to Reel specifications.
- Units used for other than home use.
- Any claims based on misrepresentations by the seller or the cost of installing, removing or reinstalling of the unit.
- This warranty is void if the serial number has been removed or defaced.

Reel's liability is limited to the repair or replacement, at our option, of any defective product and shall not include incidental or consequential damages. Reel reserves the right to replace a discontinued model with a comparable model. Any replacement units or parts may be rebuilt or new.

To obtain warranty service please return the product to your dealer. If this is not possible please phone **905-567-1920** or email **service@korbon.com** and we will promptly advise you of what action to take.



Specifications

Model	RSW-1215	RSW-1012	RSW-810
Driver Size-Diameter	12 inch (30.48 cm)	10 inch (25.4 cm)	8 inch (20.32 cm)
Enclosure Style	Down firing driver, Tuned Port	Down firing driver, Tuned Porte	Down firing driver, Tuned Port
Amplifier Output	250 watts	150 watts	125 watts
Frequency Response	27 – 150hz	33 – 150hz	39 – 150hz
Variable Crossover	50 – 150hz (24 db/oct)	50 – 150hz (24 db/oct)	50 – 150hz (24 db/oct)
Power Options	switch on/off/auto	switch on/off/auto	switch on/off/auto
Standby Mode	In "Auto" power mode 15 min of no signal unit goes to standby	In "Auto" power mode 15 min of no signal unit goes to standby	In "Auto" power 15 min of no signal unit goes to standby
Phase adjust	Variable via knob	0 – 180 degree switch	0 –180 degree switch
Low Level Input	Yes – RCA socket	Yes – RCA socket	Yes – RCA socket
"Reel to Reel" Output	Yes – RCA socket	Yes – RCA socket	Yes – RCA socket
Hi Level Input	No	Yes	Yes
Hi Level Output	No	Yes	Yes
Output Protection	Yes	Yes	Yes
CUL/USA Approved	Yes	Yes	Yes
Cabinet Dimensions HxWxD (inches)	15.75 x 15.75 x 17.6	14.56 x 14.56 x 16.41	12.5 x 12.5 x 14.33
Cabinet Dimensions HxWxD (mm)	400 x 400 x 447	370 x 370 x 417	317 x 317 x 364

Reel
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Make your video sound Reel.™

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