

Rubicon Tower Speakers

Version 3.1 1/1/08



Please read and understand all instructions before beginning installation.

Any Questions? 800-418-1616

Congratulations on the purchase of your new Skylon Rubicon Tower Speakers! The Rubicon Series delivers the loudest, clearest, most efficient use of power available in any tower speaker. They reproduce the finest details of the midrange while reproducing the mid-bass range with intense dynamics and exceptional transient response. Their performance provides a truly exciting listening experience.

The design and materials of the Rubicon Series drivers are what provide a high level of performance. The cones are formed from poly-mica. A poly-mica cone gives you the smooth frequency response of a polypropylene cone with the dynamics and detail of a light paper cone. They are formed with a reinforcing ridge at the outer edge to further stiffen the cone body and damp resonances in the body of the cone. The result is a very stiff and light cone that is well damped for excellent transient response, high efficiency, and very low distortion. A santoprene surround provides outstanding performance and weather resistance. High temperature copper wire voice coils and large oversized motor structures provide the power necessary for high efficiency and incredible transient response with intense dynamics.

In 2005 Skylon introduced Long Throw Technology to the market. Controlled dispersion HLCD (horn loaded compression driver) speakers are the most technologically advanced method for overcoming the acoustics of the wakeboarding speaker environment. Their proprietary characteristics make them the ultimate choice in midrange and high frequency reproduction combining very high efficiency, wide bandwidth and proper dispersion pattern. The Skylon horn loaded speaker design yield many advantages over direct radiating speaker designs. With ultra high efficiency of up to 105dB you can experience your music with impact and realism even at 90 feet behind the boat. By utilizing the proprietary Skylon design method, your speakers will sound better in a boat than any other speakers. That is because Skylon's engineers work in the boat. Each and every speaker is designed and tested in real world boat environments. They are not warmed over car audio speakers installed in a boat. Only Skylon offers a "system" approach where both tower and in-boat speakers are designed as a family. Only Skylon does this! When you combine the benefits of controlled dispersion, high efficiency, and low distortion, it becomes clear that they are the ultimate choice for a wakeboard tower speaker!

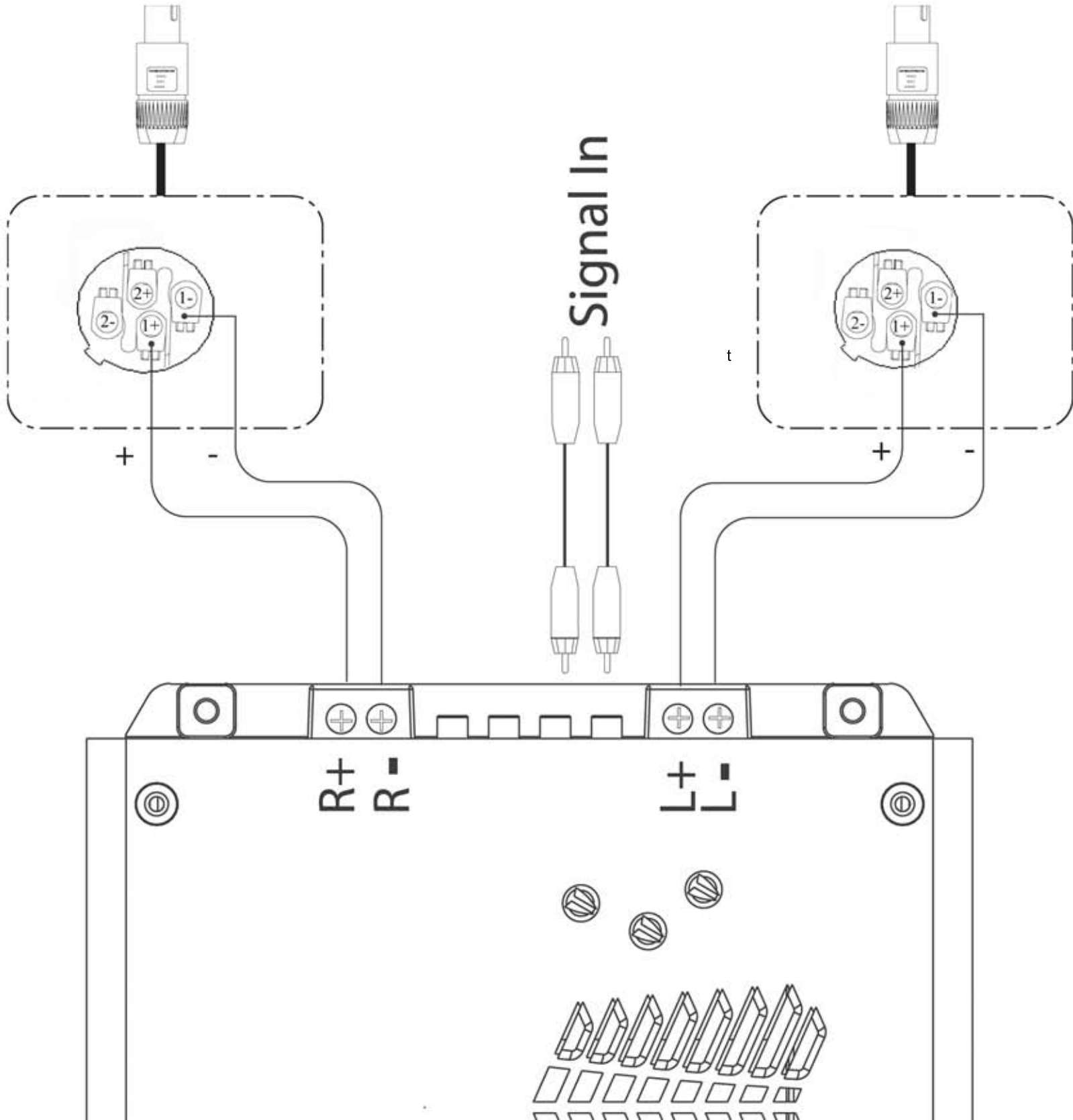
The heart of these systems is the crossover network which is more than just a simple frequency dividing system. It incorporates a complex multiple frequency equalization circuit with attenuation to match the output of the HLCD to the mid-bass drivers. The crossover section is manufactured utilizing metallized film capacitors and high power low loss inductors. Thank you for choosing Skylon as your preferred tower speaker manufacturer!



Note: The 2+ and 2- terminals on the input connectors are not used unless optional speaker light is installed.



Wiring Diagram



Skylon Speaker Clamp Installation



Fig 1.

Parts list

- A. Speaker clamp top
- B. Speaker Clamp bottom
- C. Delrin clamp insert
- D. Threaded Bezel Insert
- E. Bezel Insert bolt
- F. Rubber tubing inserts (7) (marked A-G)
- G. Speaker clamp bolts (2)



Step 1

Take the clamp top (A) and clamp bottom (B) with the appropriate rubber insert for the tubing diameter to allow the clamp top and bottom to almost touch when mounted. A 1/4" gap on each side before tightening is optimal. Leave the rubber insert in place on the tower.

Step 2

Attach speaker clamp bottom (B) to top of speaker bezel.

Insert threaded bezel insert (D) into back of speaker bezel top as shown. (Image A)

Place the clamp bottom at desired angle. Hold speaker up to desired tower tube location to insure proper speaker direction when mounted. Insert bezel insert bolt (E) thru top of speaker clamp bottom and tighten bolt into the threaded bezel insert. Use blue Loctite during this procedure.

Step 3

Place clamp top (A) on the top of the rubber insert which still should be in place on top of the tower. Insert both clamp screws (G) into holes in top of clamp top. Lift speaker up into position and push upward to get clamp bottom firmly into rubber insert. CAREFULLY start clamp bolts evenly on both sides and tighten both bolts while alternating one side to the other. There should be a small gap between each clamp half when completely tight.

If you have any questions regarding this procedure you can call Skylon at 1.800.418.1616

-Strip ends of speaker wire to 1/2".

-Place gray threaded collar (C) and clamp (B) on to speaker wire.

-Insert stripped ends of speaker wire into connector (A). Use only 1+ and 1- on connector (A). The terminals are labeled next to the screw heads [see previous page for wiring diagram]

-Install right angle shell (D) onto the threads of connector(A). Secure with screw (F). Blue collar of connector and right angle shell should be flush.

-Install both halves of blue collar (E) onto right angle shell (D). [See Fig. 1]

-Slide clamp (B) onto assembled right angle (D). Align clamp (B) to index of right angle (D).

-Thread collar (C) onto right angle (D) over clamp (B).



Rubicon 100's



- Power handling (continuous)-100 watts.
- Nominal impedance-3 ohm
- Sensitivity-92db SPL with 1 watt of power (2.83 volts) measured at a distance of 1 meter in free air
- (2) 6" coaxial drivers
- Quick Release wiring connectors
- Dura-tech acoustically engineered composite enclosure for low resonance and light weight.
- Collar mounting system fits 1.5"-2.875" tubing for a secure fit.

Rubicon 125's



- Power handling (continuous)-125 watts.
- Nominal impedance-3 ohm
- Sensitivity-92db SPL with 1 watt of power (2.83 volts) measured at a distance of 1 meter in free air
- (2) 6" coaxial drivers
- Quick Release wiring connectors
- Dura-tech acoustically engineered composite enclosure for low resonance and light weight.
- Collar mounting system fits 1.5"-2.875" tubing for a secure fit.

Rubicon 325's



- Power handling (continuous)-300 watts.
- Nominal impedance-3 ohm
- Sensitivity-97db SPL with 1 watt of power (2.83 volts) measured at a distance of 1 meter in free air
- (2) 8" Skylon Audio mid-bass drivers for accurate reproduction of lower frequencies
- (2) 1" coaxially mounted compression horn drivers
- Quick Release wiring connectors
- Dura-tech acoustically engineered composite enclosure for low resonance and light weight.
- Collar mounting system fits 1.5"-2.875" tubing for a secure fit.

Rubicon 350's



- Power handling (continuous)-400 watts.
- Nominal impedance-3 ohm
- Sensitivity-97db SPL with 1 watt of power (2.83 volts) measured at a distance of 1 meter in free air
- (2) 8" Skylon Audio mid-bass drivers for accurate reproduction of lower frequencies
- (2) 1" Compression horn drivers
- Quick Release wiring connectors
- Dura-tech acoustically engineered composite enclosure for low resonance and light weight.
- Collar mounting system fits 1.5"-2.875" tubing for a secure fit.



Warranty Information

Skylon Warrants this product to be free from defects in material and workmanship under normal use for a period of one (1) year from date of original purchase from an authorized Skylon Dealer. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period, Skylon will replace or repair (at its discretion) the defective merchandise with equivalent merchandise at no charge. Discontinued products may be replaced with equivalent products. This warranty is valid only for the original purchaser and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the expressed warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether expressed or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights; however you may have other rights that vary from state to state. Any Skylon Audio speaker that has been removed from the original can/housing will not be eligible for any warranty. Speakers must be in original cans/housing.

What To Do If You Need Warranty or Service

Defective merchandise must be returned to your local Authorized Skylon Dealer for warranty. Assistance in locating an Authorized Dealer can be obtained by visiting skylonsports.com. If it becomes necessary for you to return defective merchandise, call the Skylon Audio Customer Service Department at (800)418-1616 for a Return Authorization (RA) number. Package all defective items in the original container or in a package that will prevent shipping damage, and return to Skylon Audio at 1317 Vinci Ave. Sacramento, CA 95838

The RA number must be clearly marked on the outside of the package. Return only defective components. Return of entire systems increases your return freight charges. Non-defective items received will be returned freight collect. Include a dated proof-of-purchase and copy of RA in return. Warranty expiration on items returned without proof-of-purchase will be determined from the manufacturing date code. Coverage may be invalidated if this date is greater than 18 months previous to the date item is sent in. Freight must be prepaid; items received freight collect will be refused. Failure to follow these steps may void your warranty. Any questions can be directed to the Skylon Customer Service Department at (800)418-1616.

What is Not Covered

This warranty is valid only if the product is used for the purpose for which it was designed.

Warranty does not cover:

- Install Slips (Screwdriver Holes)
- Damage caused by exposure to water and/or excessive heat.
- Damage through negligence, misuse, or accident.
- Items physically damaged due to abuse.
- Freight damage.
- The cost of shipping product to Skylon.
- Items previously repaired by any unauthorized repair facility.
- Items returned from unauthorized individuals or dealers.
- Return shipping on non-defective items.
- Speakers damaged due to amplifier clipping or distortion.