

ExtremeTower T8

Models: SEI-ET7700...20

8 inch Tower Speakers



User Guide

— Installation and Operation —

2

Passive Tower Speakers

Important

- Please read the Hardware Guide and User Guide before installation and use.
- When mounting the speaker, it is extremely important to make sure that the mount is secure and will not cause any potential issues. Please check that the speaker does **NOT** block the driver's view or prevents the safe operation of your boat or other vehicle. Ensure that all screws are tightened and the speaker is secured correctly so that the speaker will **NOT** fall.
- It is highly recommended to periodically check that the mount is secured. Retorquing the mounting bolts may be necessary.

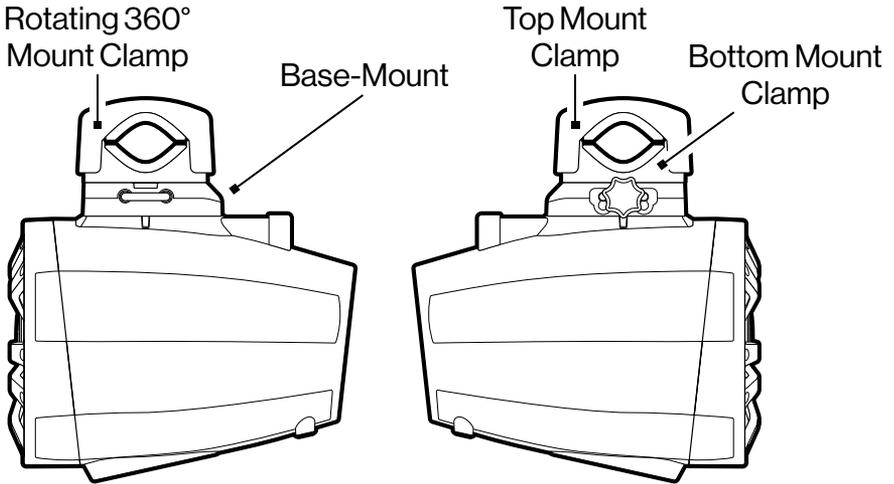
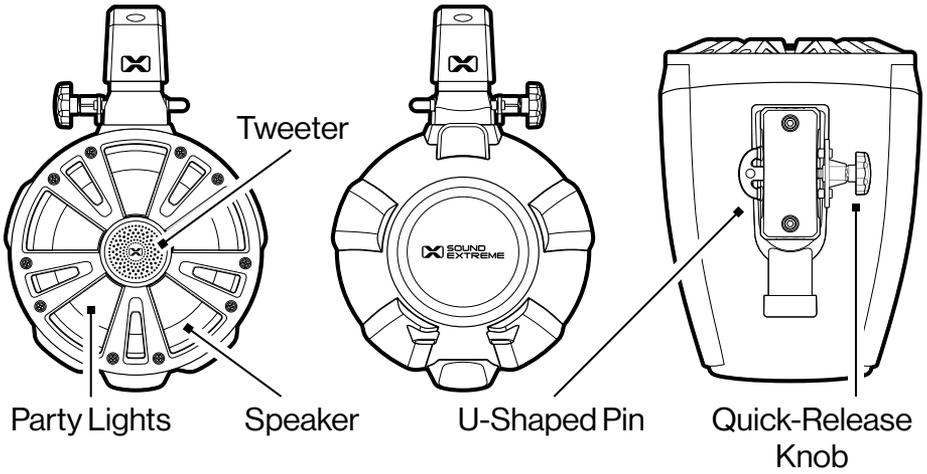
RECOMMENDATION: Do **NOT** install on your own as installation is a two-person job, to be done safely. Please be careful to ensure no personal injury or damage to your vehicle.

- An Aviation Connector Jack Cap comes attached to the Base-Mount on each speaker. If you choose to use the Deutsch Cable Set for wiring, you **MUST** screw the cap into the unused Aviation Connector Jack on each speaker, tightening it clockwise with a long nose plier (not included) or similar tool. Failing to do this may result in potential water or moisture penetration into the jack connector pins, cause damage to the speaker, and **VOID THE PRODUCT WARRANTY**.
- When you connect the 6-pin Aviation Connector to the Aviation Connector Jack in the Base-Mount, you **MUST** ensure the connector is tightened (clockwise) so that the connection is waterproof.
- When using the Extension Cable and/or connecting two wires (e.g., using supplied BUTT Connectors), make sure to seal the connection either by using electric tape or heat shrink tubing (not included). Failing to do this may result in long-term corrosion on the connection and cause a premature malfunction.

CAUTION: After taking the product out of the polyethylene bag, be sure to dispose of the polyethylene bag out of the reach of children. Children may play with the bag, which could result in the child's suffocation.

Extreme Tower Overview

Extreme Tower Layout

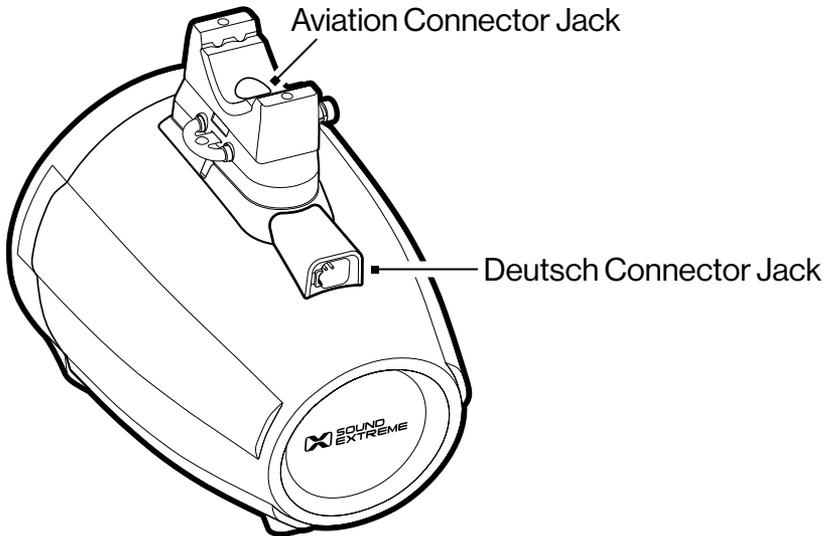


Audio and LED Control Connectors and Cables

Audio and LED Lighting Control Connections: The ExtremeTower Speakers have 5 input connections / wires.

- 3 LED control inputs to connect to an external SoundExtreme LEDCast-enabled controller or LEDCast Radio (sold separately).
- 2 audio inputs (Positive + and Negative -) to connect to an external audio power amplifier or radio.

Speaker Connector Jacks: Each speaker has 2 types of Connector Jacks.



1. A round **Aviation Connector Jack** is inside the speaker Base-Mount, which allows the cable to pass through the Bottom Mount Clamp and go into a hole in the crossbar at the location where the speaker is mounted.
2. A square **Deutsch Connector Jack** is behind the speaker Base-Mount underneath a rubber cap. This is for an installation where the wire is installed outside of the tower / roll cage. This is also the connection suggested if you want to utilize the Quick-Release-Mount option.

Extreme Tower Overview

Cables

Your package includes 2 types of 6-pin cables and a 3-pin LED Extension Cable.



“Round C” 6-Pin Pass-Through LED and Speaker Aviation Cable

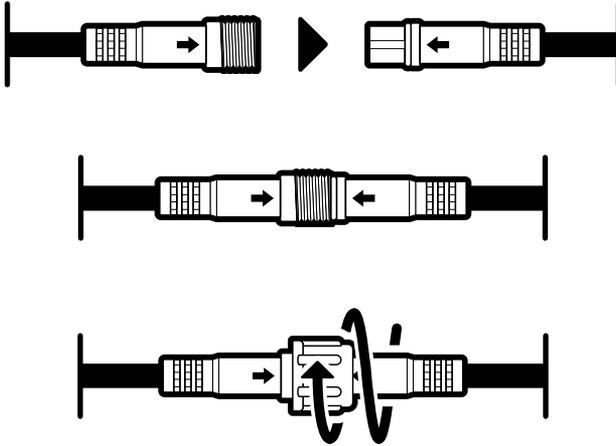
1. Aviation Cable — A 6-pin, round Aviation Connector is on one end and on the other end is the following:
 - Two bare wires for speaker audio input (Positive + and Negative -).
 - A 3-pin LED connector.



“Deutsch C” 6-Pin LED and Speaker Deutsch Cable

2. Deutsch Cable — A 6-pin, square Deutsch Connector is on one end and on the other end is the following:
 - Two bare wires for speaker audio input (Positive + and Negative -).
 - A 3-pin LED connector.

3. LED Extension Cable — Depending on the distances between your speakers, the audio source, and the LED lighting controller, you may need to use the provided LED Extension Cables.



For the LED Extension Cable, connect the 3-pin male connector on the Aviation (Round C) Cable or Deutsch (Deutsch C) Cable to the 3-pin female connector on the included LED Extension Cable. Align the arrow on both connectors, push-in, and screw the nut cap on the female connector.

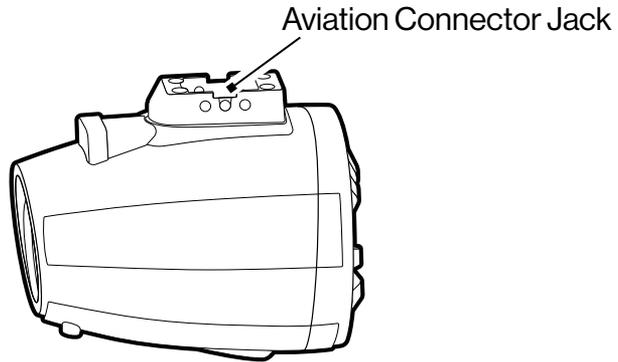
Make sure the cable does **NOT** touch any moving parts on the vehicle. If the cable is longer than required, do **NOT** cut the cable and reconnect. Instead, wrap the extra length on your vehicle and fasten the cable with zip ties. Please ensure the cable does **NOT** touch or drag on the ground **AND** is safely secured to prevent it from coming into contact with any moving parts.

A speaker audio extension cable is **NOT** included in the package. Obtain a high-quality, marine speaker cable with your required length. 16 AWG speaker cable is recommended. When you connect the cables, make sure the connections are sealed (e.g., with the included electrical tape) to prevent potential wire corrosion due to water or moisture penetration.

Installation and Wiring

Installation and Wiring Procedure 1: Round Aviation Cable

If you choose to use the Aviation Cable Set for wiring your ExtremeTower Speakers, follow the steps below.



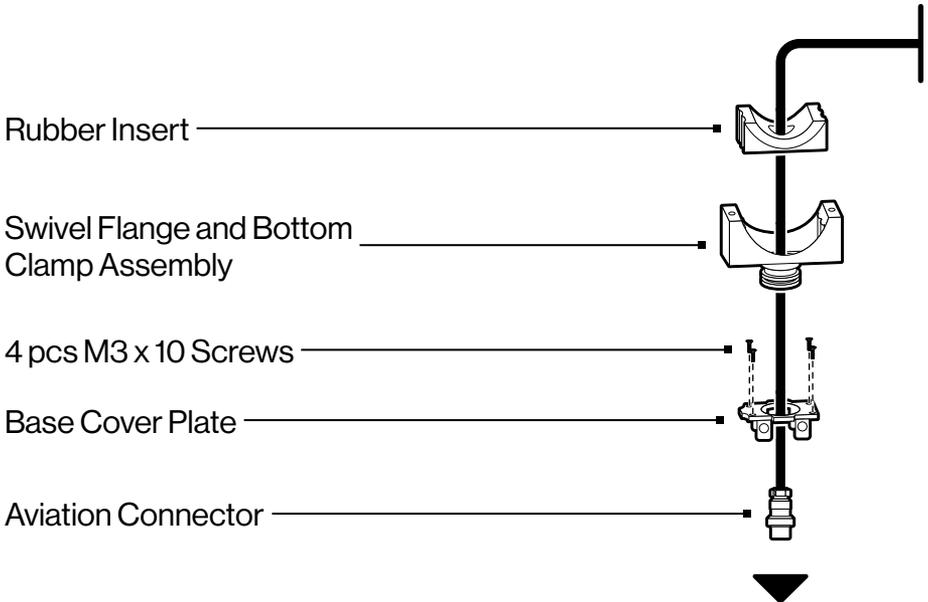
Speaker and LED Lighting Control Wiring: The Aviation Cable will pass through the Bottom Mount Clamp and go into a hole in the crossbar; therefore, it is necessary to run the speaker wires and connections before the speakers are mounted onto the crossbar.

1. Find or drill a hole in the crossbar at the spots where each speaker will be mounted.
2. Fish the ("Round C" 6-pin pass-through LED and speaker) Aviation Cable into the hole in the crossbar where the ExtremeTower Speaker will be mounted and fish the wires through the crossbar to the location where your audio amplifier and/or the LED light controller is located. The included 3-Pin LED Extension Cables and speaker audio extension cables (not included) may be needed to reach the amplifier and controller.

Mount the Tower Speaker to the Crossbar

1. Base-Mount: Remove the tape and pull out a small plastic bag from the Base-Mount. This bag has one Aviation Connector Jack Cap. You don't need this cap for this installation, but save the cap for later use in case you change the wiring methods.

Installation and Wiring



2. Put the appropriate Lower Rubber Insert onto the Swivel Flange and Bottom Clamp Assembly.
3. Fish the (“Round C” 6-pin pass-through LED and speaker) Aviation Cable through the inner hole of the Swivel Flange and Bottom Clamp Assembly, and the Base Cover Plate.
4. Connect the (6-pin round) Aviation Connector to the Aviation Connector Jack on the speaker. Tighten the connector clockwise with a long nose plier (not included) or similar tool.

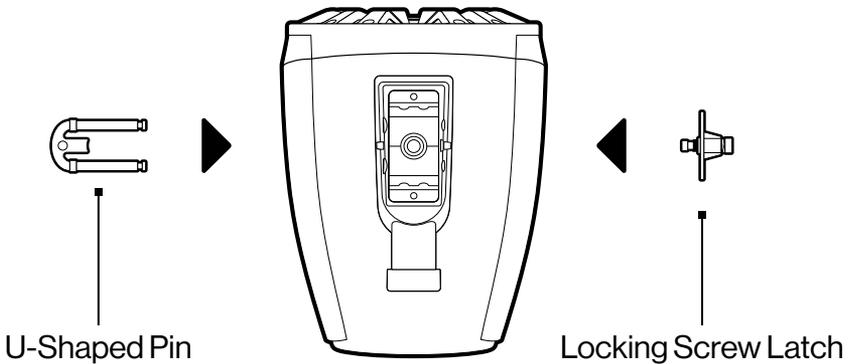
IMPORTANT: Tighten the connector to ensure the connection is waterproof to avoid potential water or moisture penetration into the jack connector pins, causing damage to the speaker.

5. Fish the cable into the hole in the crossbar where the Tower Speaker will be mounted and fish the line through the crossbar and go to the location where your audio amplifier and LED light

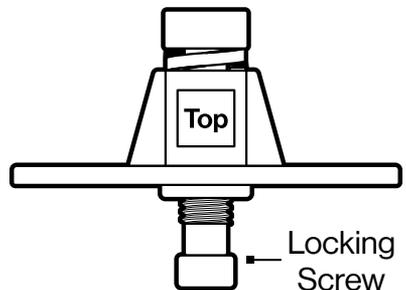
Installation and Wiring

controller is located. When using cable extensions, make sure the connections are sealed (e.g., with the included electrical tape) to prevent potential wire corrosion due to water or moisture penetration.

- Put the Base Cover Plate on the speaker Mount-Base and secure with 4 pcs of M3 x 10 Screws.
- Insert the Swivel Flange and Bottom Clamp Assembly into the speaker Mount-Base.



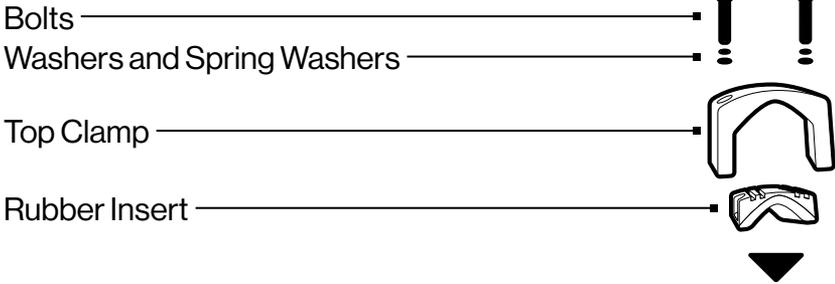
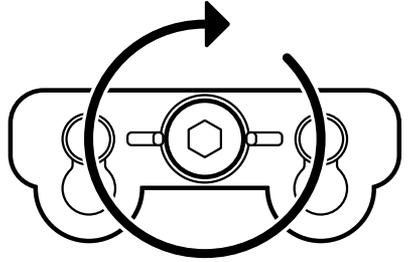
- Insert the U-Shaped Pin into the two holes on the side of the Base-Mount. Insert the pins into the holes on the left side of the Mount when viewing from the rear of the speaker.
- Attach the Locking Screw Latch onto the U-Shaped Pin ends (make sure **Top** on the Locking Screw Latch is on top), then move it downward to align the lock catch end with the middle hole of the Base-Mount, and screw in the Locking Screw with



Installation and Wiring

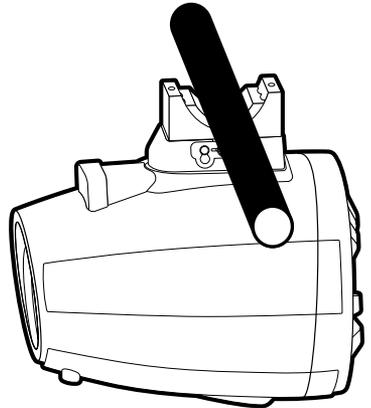
the supplied M5 Allen wrench (or with your hand if utilizing the Quick-Release Knob).

Note: It is **NOT** recommended to use the Quick-Release Knob with this wiring method. Do **NOT** tighten the screw yet.



10. Put the Upper Rubber Insert on the Top Clamp. Align the rubber groove with the bulge of the Top Clamp and press down to assemble the Clamp and Rubber Insert.

11. Place the Tower Speaker under the crossbar. Lower the Top Clamp over the crossbar and on the Bottom Clamp. Tighten the two Bolts so that the speaker is securely mounted on the crossbar.



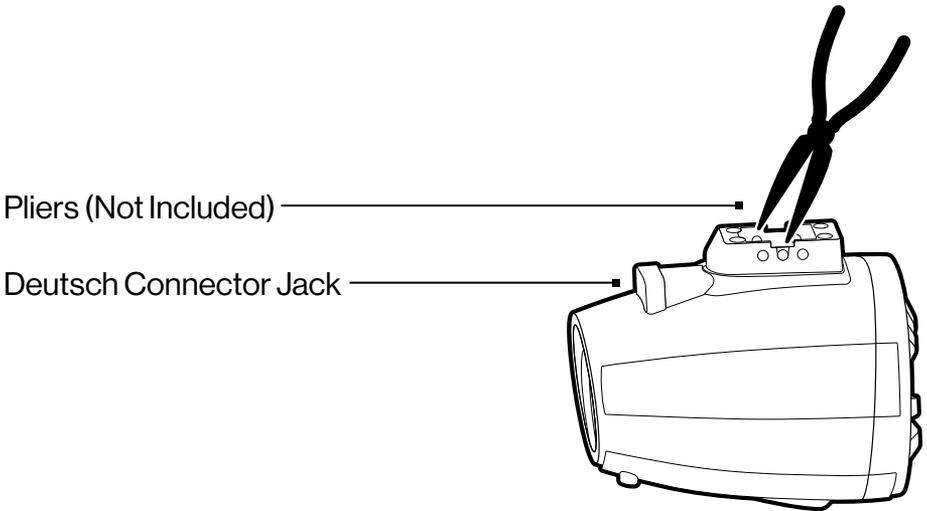
12. Turn the speaker to your desired angle, tighten the Locking Screw with the supplied M5 Allen wrench (or with your hand if utilizing the Quick-Release Knob).

13. Now skip to **Audio Source and LED Light Controller**.

Installation and Wiring

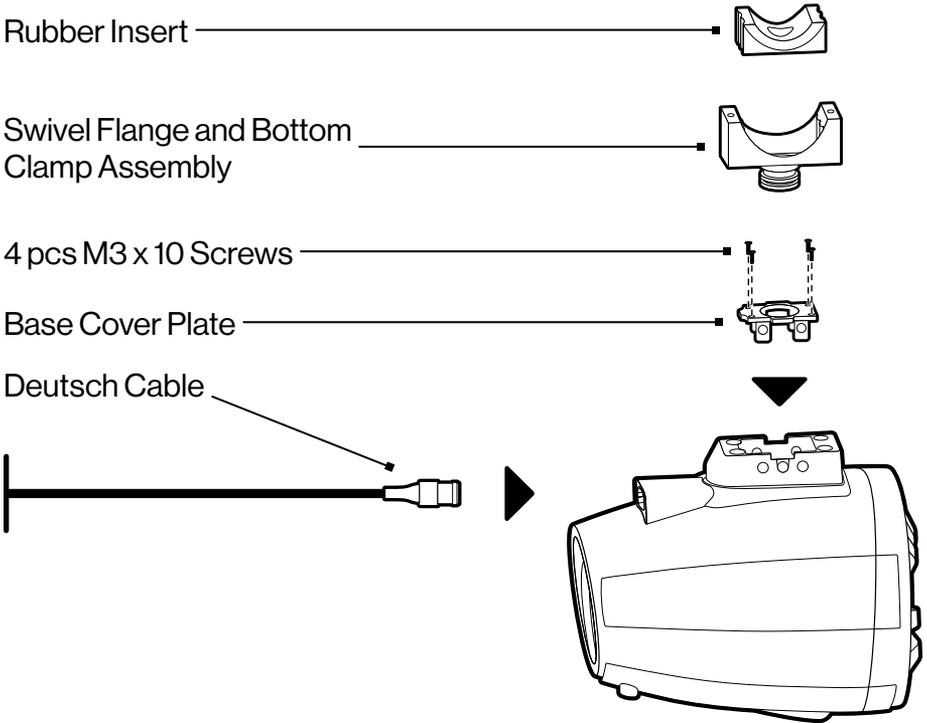
Installation and Wiring Procedure 2: Square Deutsch Cable

This cable installation method does **NOT** require that the cables go through the mount. This method allows for the speakers to be mounted to the crossbar before running the wires and before completing the cable connections.



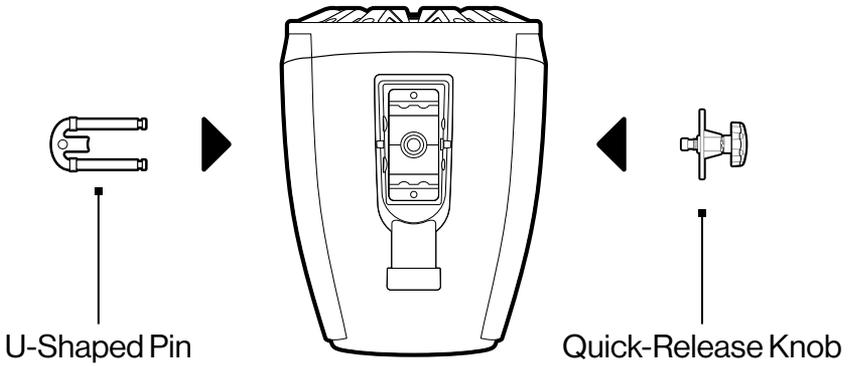
IMPORTANT: Before installation, it is important that you install the Aviation Connector Caps on the Aviation Connector Jacks in the Base-Mounts of both speakers. In the Base-Mount, remove the tape and pull out the Aviation Connector Cap from a small plastic bag. Screw the cap into the Connector Jack on the speaker, tighten it clockwise with a long nose plier (not included) or similar tool. Failing to do this will result in potential water or moisture penetration into the jack connector pins causing damage to the speaker.

Mount the Tower Speaker to the Crossbar



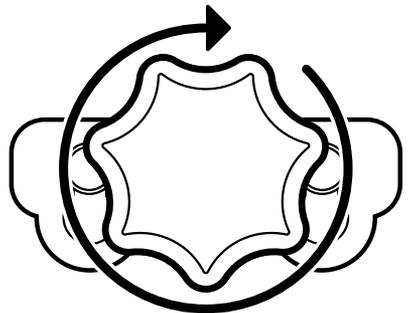
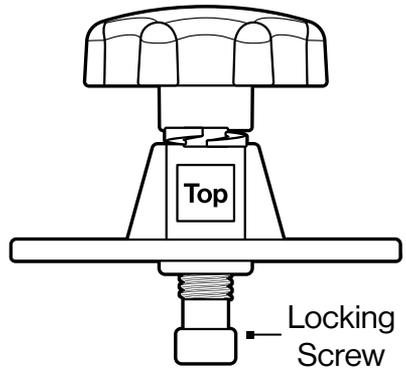
1. Put the appropriate Lower Rubber Insert onto the Swivel Flange and Bottom Clamp Assembly.
2. Put the Base Cover Plate on the speaker Mount-Base and secure with 4 pcs of M3 x 10 Screws.
3. Insert the Swivel Flange and Bottom Clamp Assembly into the speaker Mount-Base.

Installation and Wiring

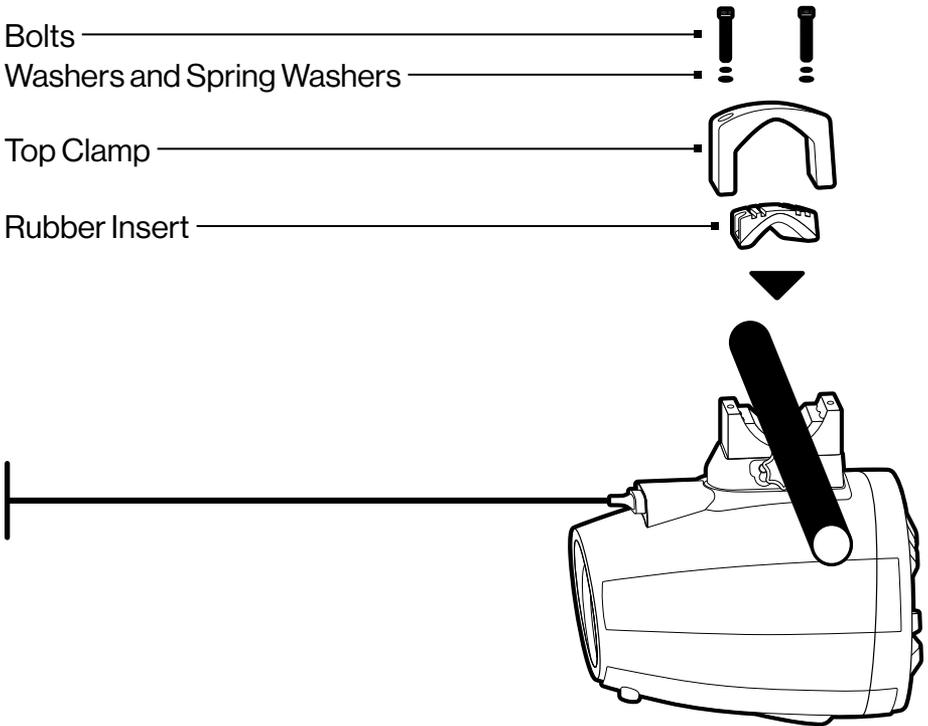


4. Insert the U-Shaped Pin into the two holes on the side of the Base-Mount. Insert the pins into the holes on the left side of the Mount when viewing from the rear of the speaker.

5. Attach the Quick-Release Knob (or the Locking Screw Latch) onto the U-Shaped Pin ends (make sure **Top** on the Quick-Release Knob is on top), then move it downward to align the lock catch end with the middle hole of the Base-Mount, and screw in the Locking Screw by turning the Quick-Release Knob (or with the supplied M5 Allen wrench if utilizing the Locking Screw Latch). Do **NOT** tighten the screw yet.



Installation and Wiring



6. Put the Upper Rubber Insert on the Top Clamp. Align the rubber groove with the bulge of the Top Clamp and press down to assemble the Clamp and Rubber Insert.
7. Place the Tower Speaker under the crossbar. Lower the Top Clamp over the crossbar and on the Bottom Clamp. Tighten the two Bolts so that the speaker is securely mounted on the crossbar.
8. Turn the speaker to your desired angle, tighten the Locking Screw with the supplied M5 Allen wrench (or with your hand if utilizing the Quick-Release Knob).

Speaker and LED Lighting Control Wiring: Run the (“Deutsch C” 6-pin LED and speaker) Deutsch Cable to the location where your audio amplifier and LED light controller are located. The included 3-Pin LED Extension Cables and speaker audio extension cables (not included) may be needed to reach the amplifier and controller.

Audio Source and LED Light Controller

You can now connect the speakers to your audio source and a SoundExtreme LEDCast-enabled controller or LEDCast Radio.

To prevent damaging the speaker, turn off the power of both the audio source and the controller **BEFORE** connecting the devices to the speakers.

Speaker Audio Connections

For stereo sound output, connect the speaker on your left to the left channel audio output, and the speaker on your right to the right channel audio output on your audio power amplifier.

For each speaker, connect the Speaker + (positive) and Speaker – (negative) leads on your audio extension cable (not included) to the corresponding terminals of your audio power amplifier.

LED Lighting Control Connections

Connect the 3-pin male connector on your LED Extension Cable to the 3-pin female connector on the LEDCast-enabled controller. Align the arrow on both connectors, push-in, and screw the nut cap on the female connector.

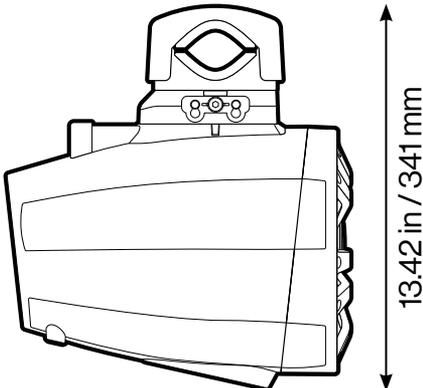
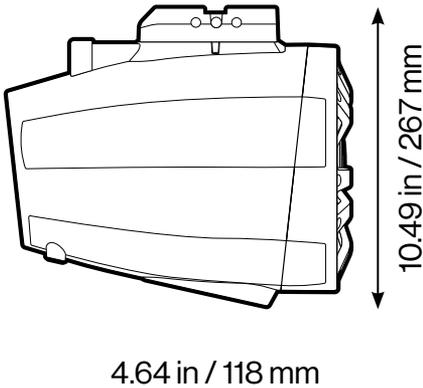
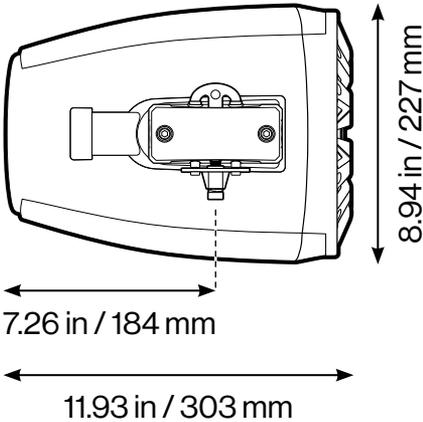
Optional: If you want the LED Party Lights on both Extreme Tower Speakers controlled by one ExtremeController LED lighting output, you can attach the LED Extension Cables to each speaker and connect both cables to the LED Extension Cable Splitter. Then connect the Splitter to one ExtremeController LED lighting output.

Turn on Your Audio Power Amplifier and LED Lighting Controller

When you turn on your Audio Power Amplifier, it is highly recommended that you set your amplifier gain properly. For example, you can turn your receiver volume to 80% of the maximum, and then slowly turn the volume up. When you start hearing distortion, turn down by one to remove any distortion and leave as your setting.

For the LED lighting control, please refer the user guide of the SoundExtreme LED Lighting Controller device that you may have (e.g., ExtremeController 4-Zone LED Controller or Marine Radio).

Dimensions



Weight

9.66 lbs / 4.38 kg (with mount);
8.16 lbs / 3.7 kg (without mount)

Power Output

300 Watt max (100 Watt RMS)

Tweeter

1.5" (38 mm) tweeter, 4 ohms

Woofer

8" (203 mm) low and mid-range woofer, 3 ohms

Frequency Response

35Hz – 21KHz

Sensitivity

92dB + - 3dB @ /1W/1m
Built-in two-way
crossover network

Speaker LEDs

Addressable RGB LEDs

Storage Temperature

-40°F to 122°F / -40°C to 50°C

Operating Temperature

23°F to 95°F / -5°C to 35°C

Important Legal Information

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.

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

NOTE: To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator to your body.

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.

RF WARNING STATEMENT:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC STATEMENT:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1.) This device may not cause interference, and
- 2.) This device must accept any interference, including interference that may cause undesired operation of the device.

PRODUCT USE AND PROTECTION:

Read and follow all instructions. Use only as intended.

The Extreme Tower speakers are intended to be used indoors or outdoors and in land or water environments. The speakers have been tested to IP66 waterproofing standards, which means the speakers can be exposed to dust and water, but should not be submerged underwater. The speakers are **NOT** intended for underwater use.

Always make sure the cap(s) / cover(s) are clean, free from sand or debris, and correctly fitted. The speaker will only meet IP66 ratings if all rubber seals, gasket(s) and cover(s) / cap(s) are in place. If you notice a muffling of audio after submersion, gently shake the unit to clear excess water. If your speaker is exposed to salt water, clean it thoroughly after use with fresh water.

To prevent fire or shock, do **NOT** attempt to power this unit if it is wet or you suspect water has entered the unit. In this situation, please return the unit to Grace Digital for a free assessment. If we have found that the unit has carried water, we will repair or replace the unit free of charge.

SAFETY ADVISORY & WARNING:

Read and follow all instructions. Use only as intended.

CAUTION: Do **NOT** open to repair. A qualified technician must carry out repair work.

ATTENTION: Do **NOT** connect to a 12VDC power supply while the unit is wet. Make sure all connections are dry **BEFORE** connecting to a power source. Failure to do so may result in electrical damage to the unit and may void the warranty.

⚠WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

WARNING: Danger of explosion if battery is incorrectly replaced.

ATTENTION: Do **NOT** dispose of in a landfill. Contact SoundExtreme at www.gracesupport.com or a certified recycling agent to dispose of the unit.

SAFETY:

This product has a limited life span of use and should be replaced when it shows obvious signs of wear.

Do not modify or remove any original component parts of the speaker. Doing so could cause damage to the unit, allowing water to ingress. A unit with water ingress should not be charged due to potential risk of fire or shock.

Important Legal Information

Please exercise care and good judgment when using your ExtremeTower speakers. Audio levels should be appropriate to your environment, comply with all local regulations, and always ensure that you can hear and be aware of any potential hazards around you.

You should always

- 1.) Use the ExtremeTower speakers in accordance with any music or noise rules and regulations.
- 2.) Properly seal the ExtremeTower speakers prior and after each use when in humid or water environments to avoid water damage to the internal components. Salt water / air is particularly corrosive. Always make sure that the gaskets are sealed when in a salt water environment and that the unit is properly rinsed off after use.
- 3.) Properly clean the ExtremeTower speakers and ensure the gaskets have no sand, dirt, or water on them prior to storage.
- 4.) Store your unit with all caps properly sealed to avoid long term internal moisture damage inside your unit.
- 5.) Return the unit to SoundExtreme if you suspect water ingress into the unit or if the unit has experienced a severe impact that may have affected the integrity of the unit to take on water.

You should never

- 1.) Never power your ExtremeTower speakers if you suspect water has entered the device. Powering a device with water inside could be potentially hazardous and cause fire or a spark.
- 2.) Never use your ExtremeTower speakers if you have dropped it on a hard surface which may have destroyed the integrity of the speaker, housing, or gaskets. In the event of a severe impact to your unit, please return the unit to SoundExtreme to review for potential damage.
- 3.) Never open the jacks in a water environment. This could cause water to ingress into the unit which could potentially be hazardous and cause a fire or a spark.
- 4.) Never attempt to fix, repair your ExtremeTower speakers. Please send it back to Grace Digital for any assessments and repairs.

CARE, MAINTENANCE & PRECAUTIONS:

- 1.) The unit is waterproof only when the caps and door are properly closed.
- 2.) Close the caps and door properly before use. If the unit is placed in a water environment without the caps or door properly closed, water may enter into the unit and void your warranty.
- 3.) Dry unit completely before opening the caps. Do **NOT** open the caps if wet or in a wet environment.
- 4.) Do **NOT** apply excessive force to any surfaces of the unit when wet or in a wet environment.
- 5.) Do **NOT** use or store the unit in places with high temperature.
- 6.) **AVOID** prolonged exposure to ultraviolet radiation (UV sunlight) and strong magnetic fields.
- 7.) Periodically check the rubber seal on the caps and door for premature wear.
- 8.) Periodically clean the rubber with a soft moist cloth and ensure no objects such as dirt, hair, sand are on the rubber seal ring. Do **NOT** use any oily solvent or chemicals for cleaning.
- 9.) Rinse off the unit with tap water after use in salt water.

LIMITED MANUFACTURER'S WARRANTY:

The ExtremeTower speakers are covered by a 1-year limited warranty that covers defects in workmanship and / or materials for a period of 1 year from original purchase date. This warranty does not apply to any products which have been abused, neglected, modified or used for a purpose other than the one for which they were manufactured. Please refer to the above care and maintenance instructions for suggested care details. The warranty is valid only for the original owner who purchases the unit from an authorized dealer. Transfers do not qualify for warranty protection. SoundExtreme reserves the right to replace any out-of-stock or discontinued product with a comparable product. Discontinued products may not be available for warranty replacement. Any contents are **NOT** covered by the limited manufacturer's warranty. Warranty terms may be revised without notification at the discretion of the manufacturer. Please visit www.soundextreme.us for additional product & warranty information.



ExtremeTower by SoundExtreme Inc., Houston, Texas.
Designed in Texas. Made in China.

This product is protected under patent US 9,307,307 B2 and several patents pending.



 **SOUNDEXTREME**
BY ECOXGEAR