



HT-2

600 Watt 2 Channel
Class D amplifier

OWNER'S MANUAL

Congratulations!

Thank you for purchasing the Wet Sounds Hydro-Tech™ series amplifier. Wet Sounds represents the ultimate in high performance Marine Audio. Wet Sounds™ Hydro-Tech™ Series Marine Amplifiers are designed to be a complete solution for every type of extreme marine application. The Hydro-Tech™ amplifiers use superior performance circuitry by utilizing Class D Power Supplies. These amplifiers have extreme power output packed inside a small chassis, thermal overload protection, flexible crossovers, optional elevated feet, extended inputs. Hydro-Tech™ amplifiers are a well balanced match for all of the Wet Sounds™ products.



Warning

We build all Wet Sounds™ products to play at high volumes for extended periods of time. Your ears however are not designed for high volume listening. This product can easily generate high volumes that can permanently damage your hearing. We urge you to limit your exposure to very high volume sound. You may also find your state has laws governing the volume of an audio system. Please be aware of all local and state laws in your area.

A Properly tuned and operated audio system will deliver years of enjoyment when used properly.



Warning

Please check the installation location before you begin. Do not cut any of the boats structure. Pay close attention to what items are behind the panels and carpet. Often the manufacturer will hide wires, mechanical or other electronic devices in the exact locations you wish to install in.

Installation Instructions

Wet Sounds™ Marine Amplifiers are designed for easy installation in your boat. To ensure proper installation of your new purchase please follow all the suggestions listed below.

If you do not have experience with marine electrical and mechanical systems contact a professional installer. Paying a qualified installer is almost always cheaper than paying a dealership to repair your boat.

Locating the Amplifier

The amplifier must be securely mounted to a solid surface. Please select a dry location to mount your amplifier. All Wet Sounds™ products are designed to operate in humid environments however direct contact with water can damage the electronics. Do not mount the amplifier to any area that may have excessive vibration (like a subwoofer enclosure). Position the amplifier in an area that receives sufficient airflow for proper heat dissipation.

Supplying Enough Power

The Laws of Nature

Your amplifier does NOT make power; it converts power, or current, from your boats electrical system and converts it into high power musical energy. If the amp can't get all the power it needs it will not produce its full output. Your Wet Sounds™ amplifier will produce full output longer than other amplifies on the market today. Should your *voltage* or *current* drop too low the amplifier will drop below the rated output. Make sure your boats charging system is in good working order. Any high performance audio amplifier will increase the demand on your alternator and battery. If you are unsure have you charging system checked system testing by a professional technician.

Running the Wiring Cables

****Always keep the signal cable and the power cables separated to prevent the possibility of inducing noise into the system****

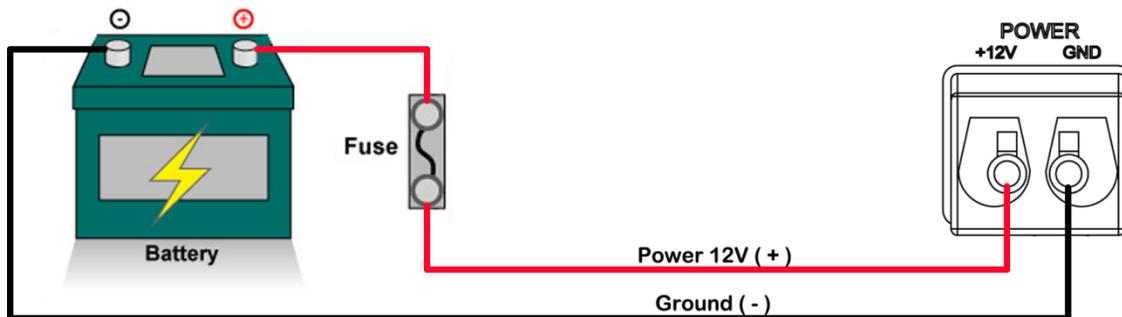
Carefully run the power and the signal cables through the boat. Always keep all the wire tight and tied down to prevent the power wire from shorting and reduce the risk of fire. A **4 AWG** or larger wire should be used for power and ground connections. We recommend a fuse to be installed on the power wire within 18 inches of the battery for safety. We recommend a 50 amp fuse.

Amplifier Connections

****Make sure that the +12 volt cable is *NOT* connected to the battery while making any of the connections until all the connections and the fuse are installed****

Power Connections

The HT-2 is designed for **4 AWG** Power wire (**+12 V**) and Ground wire (**GND**). You will need to prepare the wire by remove 5/8" on the protective shielding on the power and ground wire. Then take a flat head screwdriver and back out the screws on the terminal block. Insert the **+12 volt** wire into the **+12V** side of the terminal block and then tighten the screw back into the terminal block. You will do the same for the Ground wire. *(see below)*



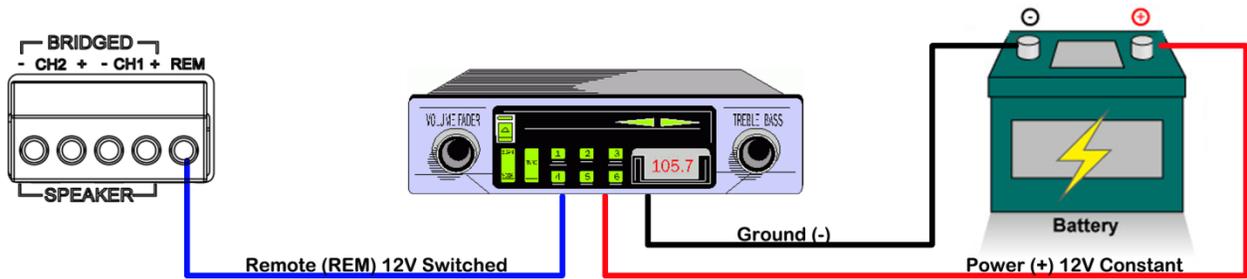
Power Indicator

The amplifier is equipped with a dual illumination l.e.d. on the top of the amplifier that the Wet Sounds logo badge is mounted on. When the amplifier first turns on the l.e.d. will be red. Once the amplifier is ready for use the l.e.d. light will change to blue. If the amplifier is in protection mode (over voltage, under voltage, thermal heating or speaker short) the L.E.D. light will turn red.



Remote Connection

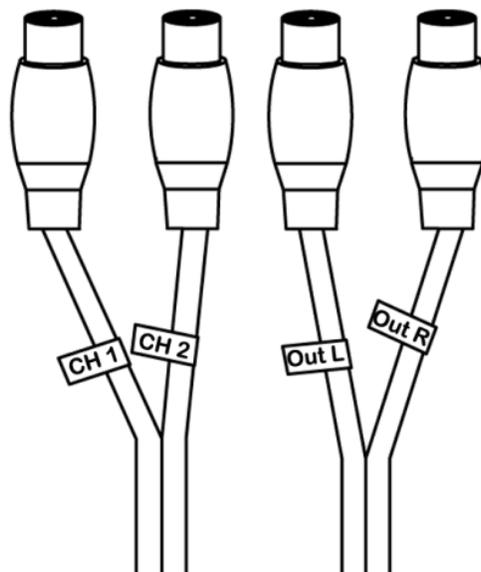
This amplifier is designed to accept a **12 AWG – 16 AWG** wire input on the terminal block for speaker outputs 1 and 2. **(Diagram A)**. The Remote Turn-on is how the amplifier knows when to turn on and off. This is typically connected to the remote output wire on an aftermarket radio. When connecting this amplifier to a factory radio, you will need to find a 12 volt accessory wire that switches on and off with the key.



Amplifier Signal Inputs/Outputs

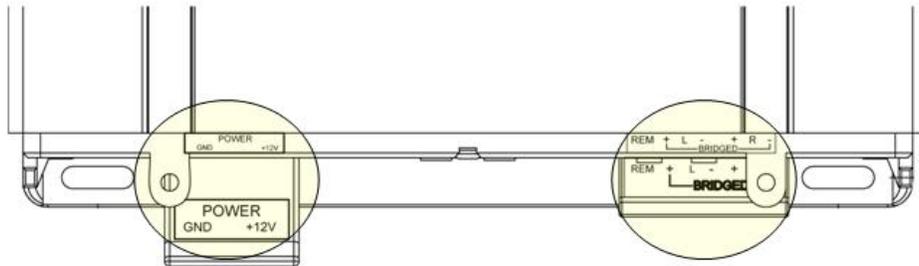
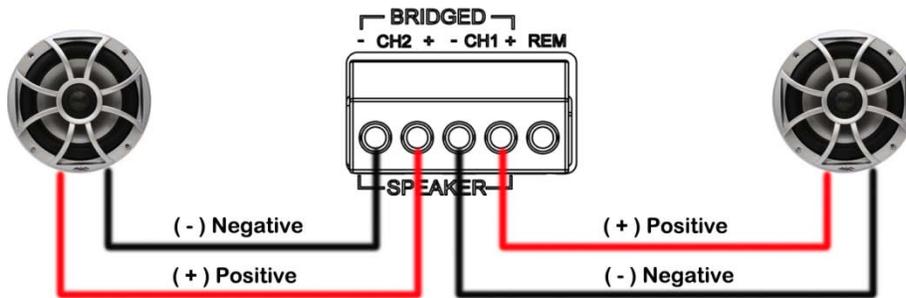
The HT-2 has both extended RCA inputs and outputs. **(see below)** Connect the RCA outputs from the source unit into the inputs of the amplifier. The HT-2 has 1 pair of inputs and is equipped with 1 pair of pass-through RCA outputs to connect to another amplifier

CH 1 CH 2 Output Output
Left Input Right Input Left Channel Right Channel



Speaker Terminal Inputs

The HT-2 utilizes removable speaker terminal blocks for easier installations and stronger power connections. The terminal blocks are designed to accept **12 AWG- 16 AWG** speaker wire. When preparing the wire you will need to strip 5/8" of the cables protective shielding. Then take a small flat head screwdriver and back out the screw on the terminal block. Insert the speaker wire into the terminal block and then tighten the screw back into the terminal block. **(DO NOT OVERTIGHTEN)** (see below)



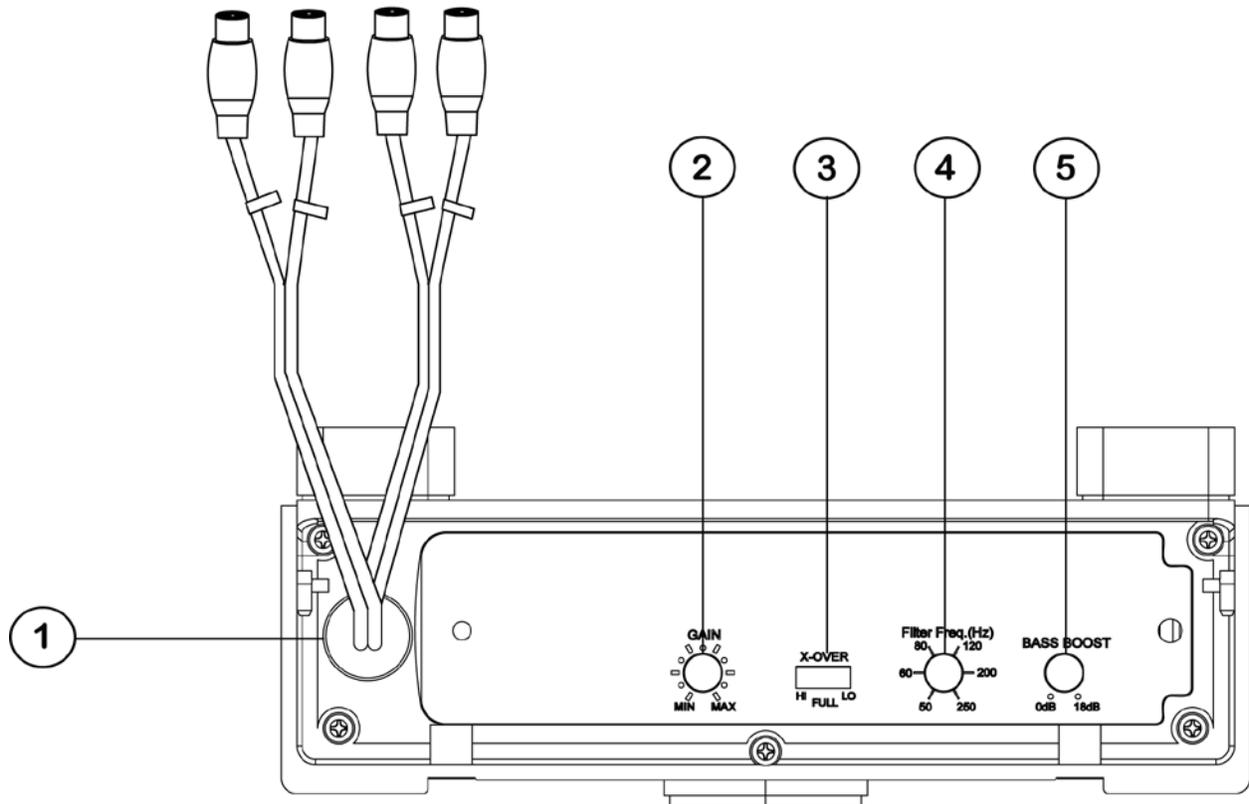
***** **Note** *****

Stickers are for alignment of the power/speaker plugs to correctly install into the amplifier. The screw terminals should be facing down, pointed at the feet of the amplifier & the stickers on all of the plugs should align with the stickers on the top of the amplifier.

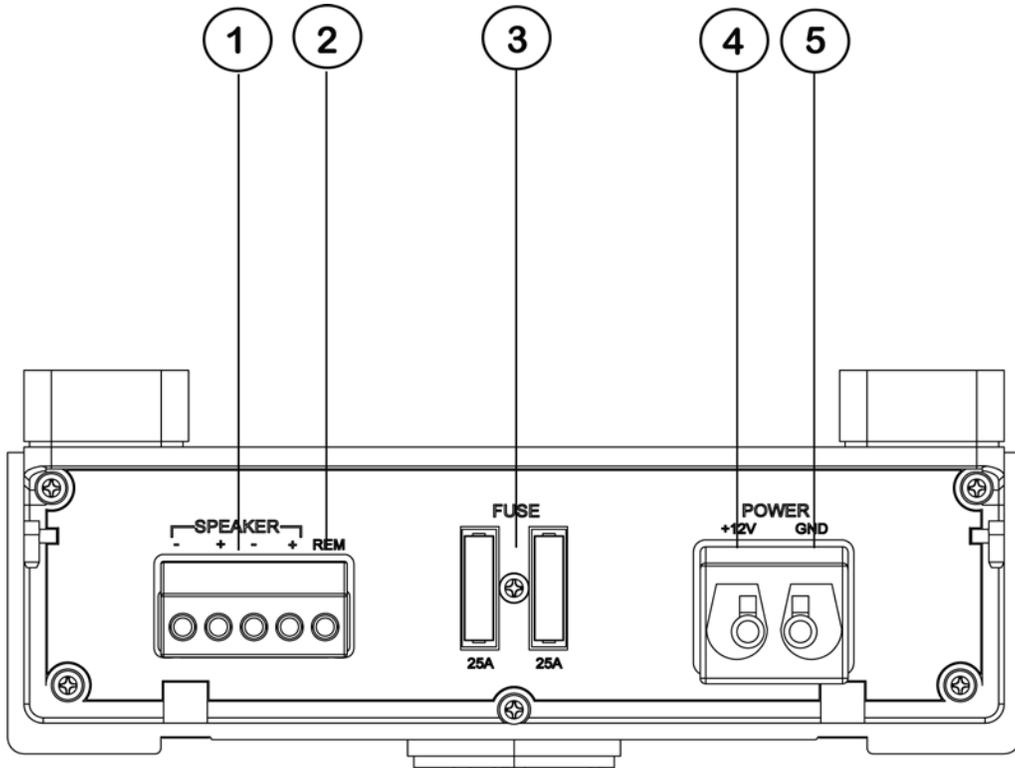


Failure to install the plugs correctly will damage the amplifier and void the warranty!!

Amp Diagram with Legend



1. **RCA Inputs** - . RCA Input Jacks—Accepts line level outputs from source units or signal processors at voltages between 250mV and 5 volts.
2. **Gain Control 1-2** – This is the input sensitivity gain control for channels 1 & 2.
3. **Crossover Switch 1-2** - The HPF attenuates low frequencies and is used with mid-range speakers and tweeters. LPF attenuates high frequencies and is used for subwoofers. Full does not attenuate any frequencies and is for full range speaker systems. This controls channels 1 & 2
4. **Variable Crossover 1-2** – Built in 12db filter with crossover frequencies between 50Hz – 250Hz.
5. **Bass Boost Control 1-2** – This is a variable boost for the low frequencies to which the amplifier is set at on the crossover.



1. **Speaker Terminal Output Block 1-2** – This is the speaker connecting block for channels 1 & 2.
2. **Remote Turn On**—This terminal turns on the amplifier when (+) 12 volt is applied to it. Connect it to the Remote Turn on lead of the head unit or signal source.
3. **Fuses**—The fuses protect the amplifier against internal electrical damage and are meant to protect the amplifier only. All other power connections should be fused at the source
4. **(+) 12 Volt Power**—Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery.
5. **Ground**—Connect this terminal directly back to the battery, using the shortest wire necessary to make this connection. Always use wire of the same gauge or larger than the (+) 12 volt power wire.

Setting up the Amplifier



Input Selection

Because of the wide range of head unit/radio output configurations all Wet Sounds amplifiers have an adjustable input sensitivity or “GAIN”. The gain is NOT a volume or a power limiting control similar to a throttle. It makes the amplifier more sensitive to input from the stereo. When the gain is turned up the amplifier will reach full output at lower volume levels on the head unit/radio. Also when the gain is set too high the amplifier becomes much more sensitive to noise from your boats electrical system.

Adjusting the Gain

You will need a small flat head screwdriver and select the style/genre of music you primarily enjoy listening to.

Here are 3 easy steps to follow.

1. Turn the gain all the way counter clockwise to the “min” point on the amp.
2. Increase the head unit/radio volume to $\frac{3}{4}$ of the maximum volume output while playing your favorite style/genre of music.
3. Gently turn the gain clockwise to increase the amplifiers output until the desired level of output is achieved.

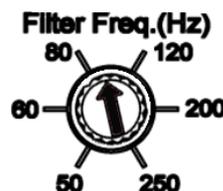
****You will repeat these steps for both the front and rear channels independently****



You should not hear any distortion in your speakers at this level, if you do, slowly turn down the gain until distortion is no longer present. If you need further assistance please contact Wet Sounds Technical Services Department.

Crossover Controls

This amplifier is designed to play frequencies between 50 Hz and 250 Hz. The amplifier is equipped 3 different optional settings. High-Pass (HI) or Low-Pass (LO), or Full-Range (FULL). *(see below)*



“High-Pass” Is designed to play only the frequencies above where the crossover is set at.

“Low Pass” Is designed to play only the frequencies below where the crossover is set at.

“Full Range” This turns off the crossover and allows the amplifier to play every frequency.

Bass Boost

This amplifier is equipped with a variable bass boost for 0db to 18db of signal boost which will increase the signal output @ 45 Hz.. *(See below)*



Troubleshooting

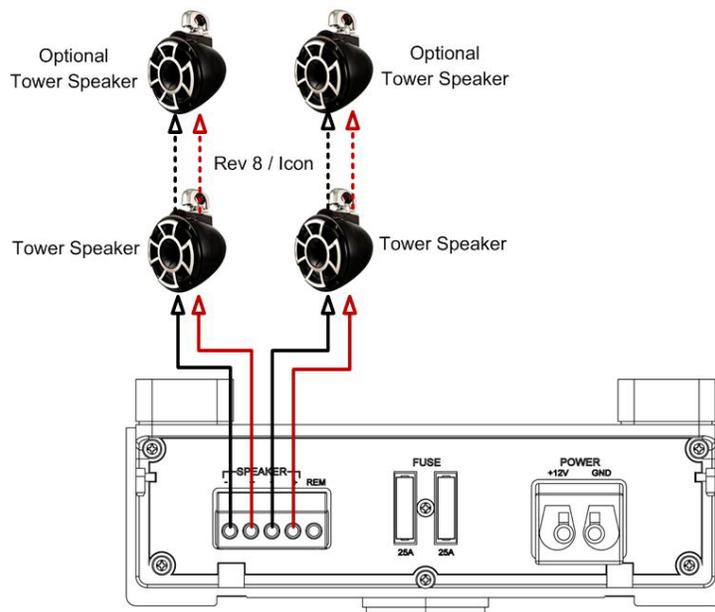
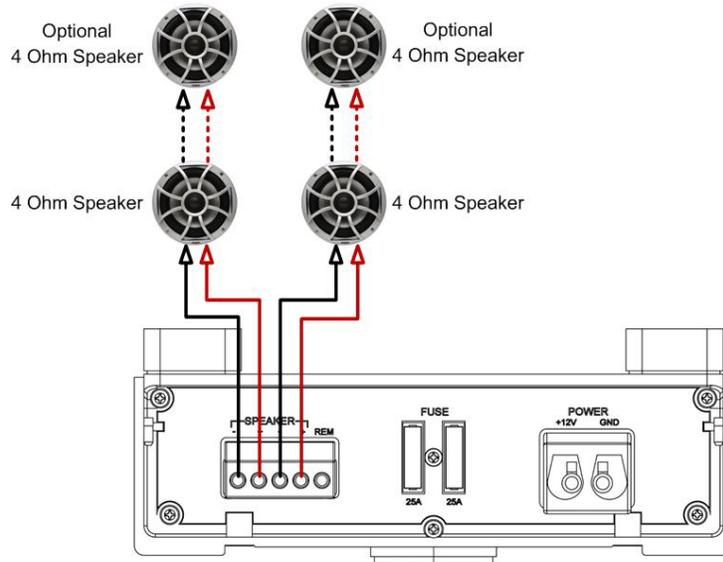


If you are experiencing problems with your amplifier after installation follow these procedures to try and remedy the problem.

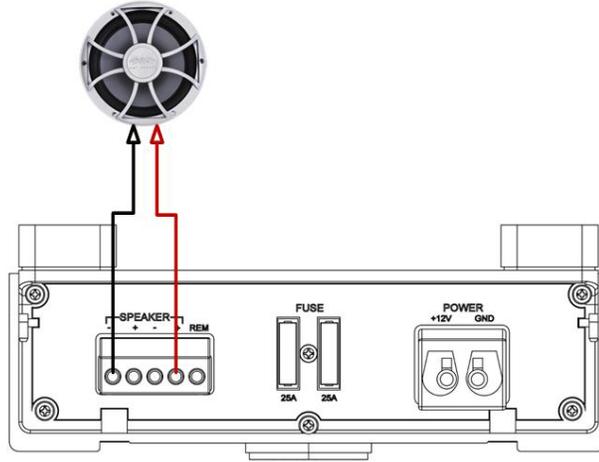


1. Check your fuse and replace if necessary.
2. Confirm your Ground wire has a good connection.
3. Make sure your remote wire and power wire has +12 Volts.
4. Make sure your battery has 12 volts.
5. Confirm that the amplifier l.e.d. color is blue. If the light is red than the amplifier is in protection mode. If the light is red check the following items below:
 - A. Confirm that a speaker is not blown.
 - B. Confirm that there are no loose wires that could be grounding out the amplifier.
 - C. Check that the amplifier has sufficient air circulation where it is located. Insufficient air flow and overdriving the audio system could result in the amplifier going into protection to preserve the amplifier.

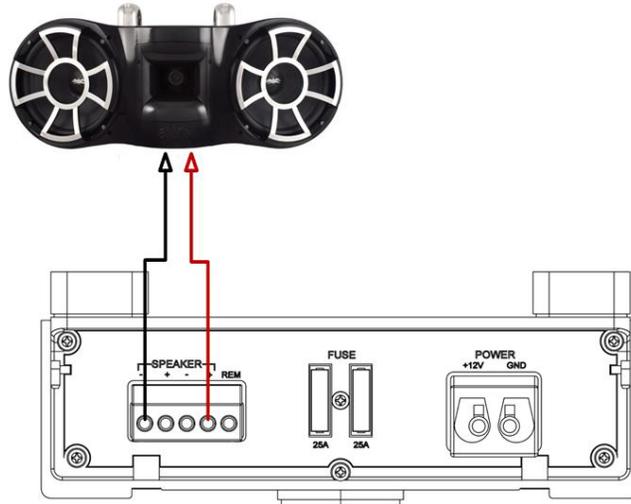
Sample System Setups



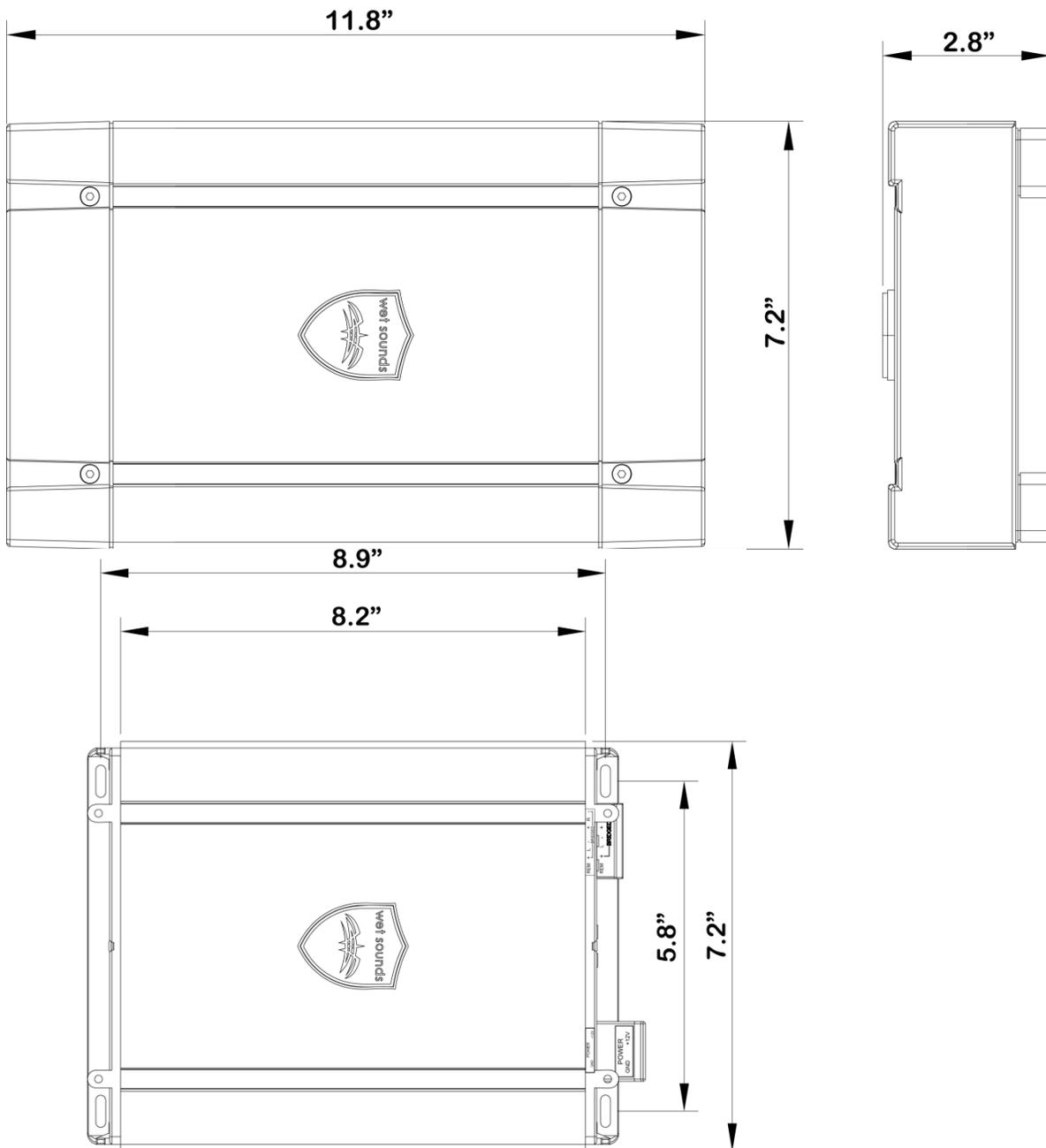
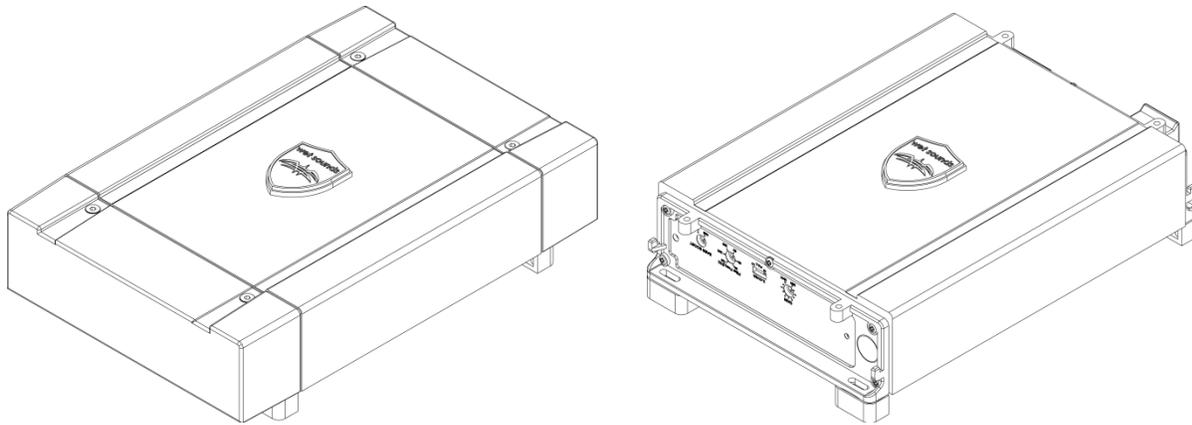
4 Ohm Subwoofer



Rev 410



Specifications



RMS Power @ 4 ohm Stereo	110 x 6	110 x 4	165 x 2	N/A
RMS Power @ 2 ohm Stereo	150 x 6	150 x 3	300 x 2	N/A
RMS Power @ 4 ohm Mono	300 x 3	300 x 2	575 x 1	300 x 1
RMS Power @ 2 ohm Mono	N/A	N/A	N/A	600 x 1
Input Sensitivity	Variable from 200mV to 5V			
Frequency Response	10Hz-20kHz	10Hz-20kHz	10Hz-20kHz	20Hz-250kHz
Bass Boost	0db - 12db	0db - 12db	0db - 12db	0db -18db
High-Pass Crossover Frequency	50Hz - 250Hz	50Hz - 250Hz	50Hz - 250Hz	N/A
Low-Pass Crossover Frequency	50Hz-250Hz	50Hz-250Hz	50Hz-250Hz	50Hz-250Hz
THD @ 4ohm	<.08	<.08	<.08	<.15
THD @ 2ohm	<.08	<.08	<.08	<.15
Signal To Noise Ratio	>95dBa	>95dBa	>95dBa	>95dBa
Idle Current Rating	2.5 A	1.7A	1.4A	1.6A
Max Current Rating	60A	50A	50A	50A
Crossover Type	Switchable Hi/Lo/Full	Switchable Hi/Lo/Full	Switchable Hi/Lo/Full	Low Pass
Turn on Delay	4S	4S	4S	4S
Operating Voltage	10V-16V	10V-16V	10V-16V	10V-16V

Limited Warranty

Length and limits of Warranty

Wet Sounds warrants this product to be free of defects in material or workmanship for (1) year from the date of purchase. Wet Sounds warranty applies exclusively to the original purchaser, not transferable and the amplifier must be purchased from an Authorized Wet Sounds Retailer within the United States. All products purchased outside of the United States are covered by the Authorized Distributor or OEM supplier. Any and all warranties not to exclude merchantability or fitness are limited in the duration to 1 year. This warranty gives you specific legal rights, and those rights may vary from state to state.

Items not covered

- ⇒ ***Serial numbers that are defaced, altered or removed.***
- ⇒ ***Any product purchased outside the United States.***
- ⇒ ***Any cost related to removal, installation, shipping of the product.***
- ⇒ ***Damage caused by abuse or accident, theft, water, shipping or neglect.***
- ⇒ ***Service performed by anyone other than Wet Sounds or a Authorized Wet Sounds Service Center.***
- ⇒ ***Subsequent damage to any other components.***
- ⇒ ***Misrepresentations by the seller.***
- ⇒ ***Failure to follow installation instructions.***
- ⇒ ***Cosmetic damage.***

Obtaining Service

Should service be necessary Wet Sounds (at its discretion), replace or repair the defective equipment with new or refurbished product. To receive service the original invoice of purchase with the customer name, product purchased, retailer name and address with date of purchase, must be provided to obtain warranty service. Contact Wet Sounds directly at 1-877-938-7757 contact customer service to obtain RA # (Return Authorization). You are responsible for the shipping of the product to Wet Sounds.