



# OEM Installation Guide

## AW339 All-Weather Transducer- Hot Tub/Spa Installation



full  
contact  
audio™



For additional questions/concerns/issues, contact  
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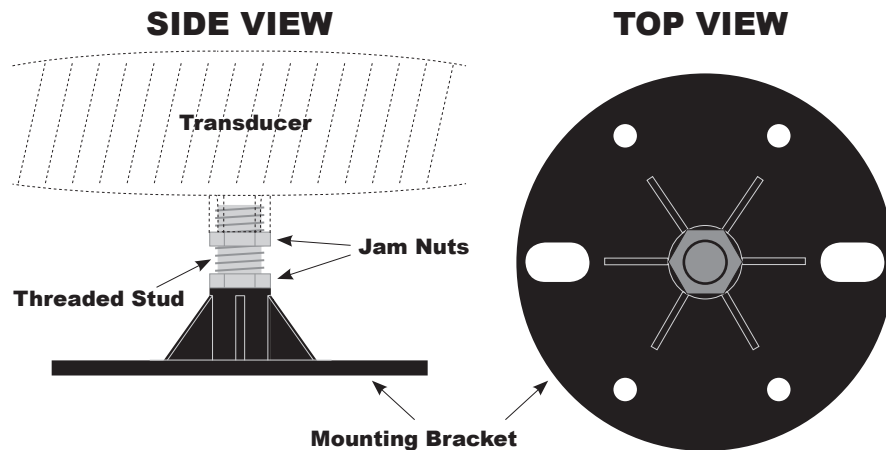
	<b>CAUTION:</b> STRONG MAGNETS ARE USED IN THIS PRODUCT. AVOID CONTACT WITH, OR PLACEMENT NEAR, ITEMS THAT CAN BE DAMAGED OR AFFECTED BY MAGNETIC FIELDS.
	<b>CAUTION:</b> THIS SPEAKER <b>IS</b> DESIGNED FOR OUTDOOR USE. HOWEVER, THE SPEAKER IS <b>NOT</b> WATERPROOF AND SHOULD NOT BE EXPOSED TO CONTINUOUS WATER FLOW OR BE SUBMERGED IN ANY WAY.
	<b>CAUTION:</b> DO NOT TIGHTEN THE JAM NUT TO THE BRASS NUT BY TURNING THE TRANSDUCER. THIS WILL RESULT IN SEVERE DAMAGE TO THE TRANSDUCER AND WILL VOID THE WARRANTY.

# AW339- HOT TUB OEM INSTALL

The AW339 mounting bracket is the component used to attach the transducer to the hot tub or spa. The mounting bracket and related hardware come in the transducer package.

The mounting bracket assembly includes the mounting bracket, a threaded stud, and two jam nuts (see diagram below). The mounting bracket is secured to the underside of the hot tub. The threaded stud attaches the transducer to the mounting bracket. The jam nuts secure the threaded stud to the mounting bracket and transducer.

## MOUNTING BRACKET ASSEMBLY



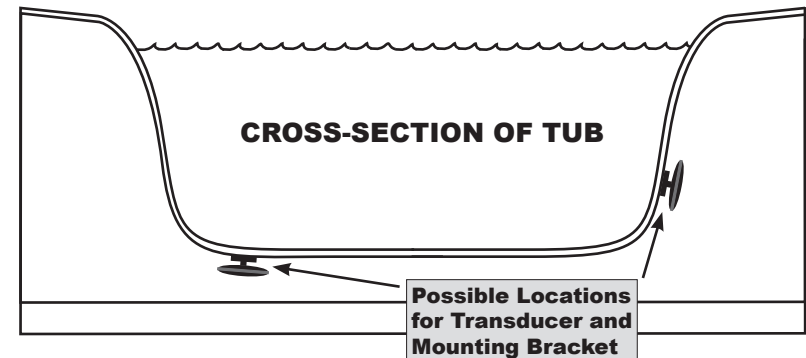
When prototype testing the transducer with your hot tub, the mounting bracket can be applied to the hot tub with epoxy. During this type of application, do not allow the epoxy to expand into the hole where the threaded stud is placed or you will not be able to insert the stud.

There are several factors to consider when selecting the mounting location for the mounting bracket and transducer:

1. You need to insure the area allows for adequate clearance for the transducer. The transducer should only touch the tub by way of the mounting bracket. If the transducer comes in contact with other parts of the hot tub it may affect the sound quality.
2. The location should allow for as much air space around the transducer as possible. This will allow heat to escape from the transducer.

3. The location should be accessible. This will prove invaluable should the transducer require service.
4. You may want to locate the transducer close to the location of the hot tub's amplifier/sound unit to avoid additional wiring.
5. For larger tubs, you may want to consider mounting two transducers for added performance.

## TRANSDUCER LOCATION



Once prototype testing is complete and a final location is determined, the mounting bracket should be permanently fused with the tub during production. This process involves covering the bracket with fiberglass. Again, insure the threaded hole is protected during this process so no material obstructs the threads/opening. The factory install is now complete.

Once the hot tub is installed by the dealer, the dealer can then install the transducer. **DO NOT SHIP WITH THE TRANSDUCERS ATTACHED.** This installation is done by placing the transducer's brass mounting nut onto the threaded stud. Insuring not to crossthread the brass nut, gently turn the transducer 5 to 6 complete revolutions. If you feel resistance, stop immediately. **CAUTION: DO NOT OVERTIGHTEN.** Spin the jam nut on the stud down to the brass nut and, using two wrenches (one on the jam nut and one on the brass nut), tighten the jam nut against the brass nut.

**CAUTION: DO NOT TIGHTEN THE JAM NUT TO THE BRASS NUT BY TURNING THE TRANSDUCER. THIS WILL RESULT IN SEVERE DAMAGE TO THE TRANSDUCER AND WILL VOID THE WARRANTY.**

You may now connect the wires to your amplifier (must be a 4 ohm stable amp delivering 125-150 watts @ 4 ohms/speaker). Your install is complete.