

HUMMINBIRD® KAYAK INSTALLATION GUIDE

There are five basic installation tasks that you must perform for the Humminbird® Fishing System:

- Installing the Humminbird® control head
- Installing the transducer
- Installing the battery
- Routing the cables and attaching the cable connector
- Testing the complete installation

NOTE: Due to the wide variety of hulls, only general instructions are presented in this installation guide. Each boat hull represents a unique set of requirements that should be evaluated prior to installation. It is important to read the instructions completely and understand the mounting guidelines before beginning installation.

NOTE: The transducer will be installed inside the hull. In-hull mounting generally produces good results in single thickness fiberglass-hulled boats. The integral temperature probe will not work with in-hull mounting, so you may want to consider purchasing a Temperature/Speed accessory or a Temp Sensor.

NOTE: If the included transducer will not work for your application, you may exchange it, NEW and UNASSEMBLED, with mounting hardware included, for a transducer appropriate for your application - often at very little or no charge depending on the transducer.

NOTE: In addition to the hardware supplied with your transducer, you will need a powered hand drill and various drill bits, marine-grade silicone sealant, and various hand tools, including a crimp tool, a ruler or straightedge, a level, marker or pencil, safety glasses, and dust mask.

CONTROL HEAD INSTALLATION

1. Determine Where to Mount

Begin the installation by determining where to mount the control head. Consider the following to determine the best location:

- To check the location planned for the control head, test run the cables for the transducer, power, and optional-purchase Temp/Speed accessory (if applicable). See the transducer and battery installation sections to plan the mounting locations.
- There are two ways to route the cables to the unit: through a hole in the mounting surface underneath the mounting bracket, or from a hole outside the mounting bracket. Routing the cables under the mounting bracket provides maximum weather protection; this may not be feasible, however, if the area under the control head is inaccessible. In this case, route the cables through a hole at another location and cover with the supplied hole cover.
- The mounting surface should be stable enough to protect the control head from excessive wave shock and vibration, and should provide visibility while in operation.
- The mounting area should allow sufficient room for the unit to pivot and swivel freely, and for easy removal and installation (Figures 1 and 2).

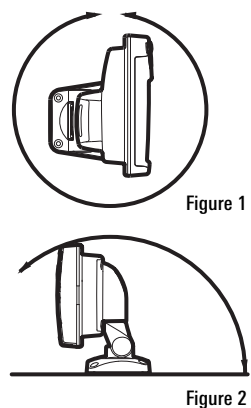


Figure 1

Figure 2

2. Drill the Mounting Bracket Mounting Holes

1. Set the control head mounting bracket in place on the mounting surface. Mark the four mounting screw locations with a pencil or punch.
2. Set the mounting bracket aside, and drill the four mounting screw holes using a 9/64" bit.

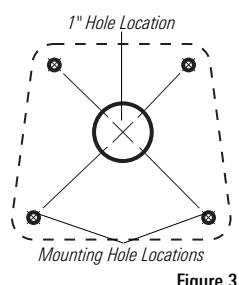


Figure 3

NOTE: When drilling holes in fiberglass hulls, it is best to start with a smaller bit and use progressively larger drill bits to reduce the chance of chipping or flaking the outer coating.

3. Route the Cables Through the Mounting Bracket

- 1a. If the cables must pass through a hole directly beneath the mounting bracket, mark and drill an additional 1" hole centered between the four mounting holes (Figure 3). Route the cables through the grommet, then press the grommet in place around the cables and into the 1" hole. Pass the cables out of the top of the mounting bracket (Figure 4).

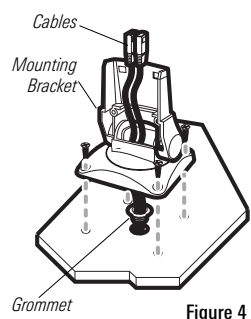


Figure 4

or...

- 1b. If the cables cannot be routed directly beneath the mounting bracket, mark and drill a 1" hole that will allow you to run the cables close to the bracket. Pass the cables through the 1" hole, through the mounting base, and out of the top of the mounting bracket (Figure 5). Using needle-nose pliers, break out the tabs on the rear of the mounting base (Figure 6). Place the hole cover over the mounting surface hole, then use it to mark the position of the two mounting screws. Remove the Hole Cover, drill the two mounting holes using a 9/64" (3.5 mm) bit, fill them with marine-grade silicone, then replace the Hole Cover and insert the #8 Phillips countersink wood screws. **Hand-tighten only!**

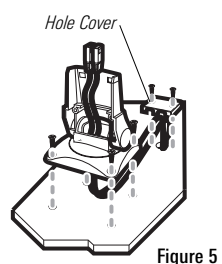


Figure 5

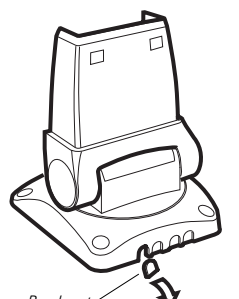


Figure 6

2. Place the mounting bracket on the mounting surface aligned with the drilled holes and fill the mounting holes with marine grade silicone. Insert the four #8 Phillips countersink wood screws into the mounting holes. **Hand-tighten only!**

TRANSDUCER INSTALLATION

1. Testing the Transducer

Prior to installation, test the transducer to make sure that no damage occurred during shipping.

1. Connect the transducer to the control head and remove any film from the transducer.
2. Hold the transducer in the water over the side of the boat to confirm proper operation. If the transducer is working properly, the control head will begin displaying data immediately.

2. Locating the Transducer Mounting Position

You must first determine the best location to mount the kayak transducer (Figure 7).

- Select a location inside the hull, in the center, lower part of the kayak, in which the area forward of this location is smooth, flat, and free of protrusions or ribs.
- The transducer should be mounted parallel to the water line so that it points straight down.
- Select a location that will allow the transducer cable to easily connect to the control head.

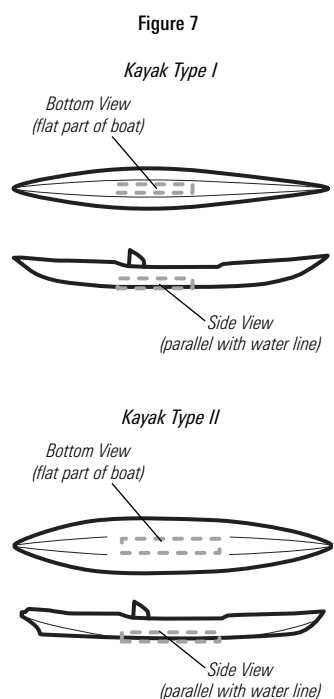
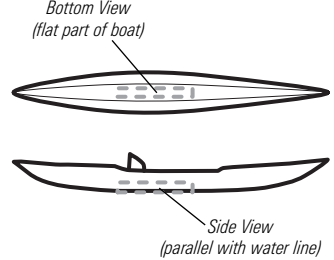
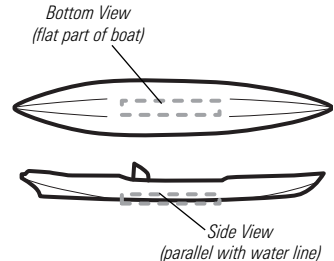


Figure 7

Kayak Type I



Kayak Type II



3. Mounting the Transducer

Prepare the mounting area and secure the transducer using the following procedures.

1. Scuff the mounting area with the scrub pad (included) so that it covers a diameter of 6". The scuffed area should extend beyond the edges of the transducer bracket (included) when it is applied in the following steps.
2. Clean the scuffed area and the transducer bracket (included) with the alcohol wipe (included). Allow the cleaned areas to dry completely.
3. Wipe the cleaned, scuffed area with the cotton-end of the primer tube (included). Then, activate the primer by squeezing the middle of the tube until the internal bubble cracks, and apply the primer to the scuffed area. Allow the primer to dry completely.
4. Peel the tan liner from the adhesive backing (included), and place the adhesive side of the backing onto the flat rim of the bracket. The red liner will be face-up. Press firmly around all surfaces of the adhesive backing so that it is sealed evenly to the bracket rim (Figure 8).

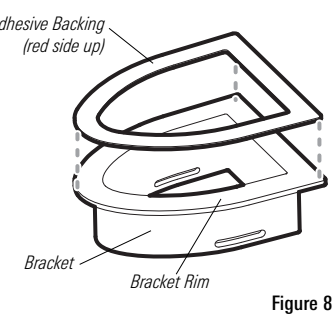


Figure 8

5. Peel the red liner from the adhesive backing. Orient the pointed end of the bracket toward the front of the boat, and attach the bracket onto the prepared mounting area of your kayak. Press and hold the bracket firmly to the kayak so that it bonds evenly to the surface (Figure 9).

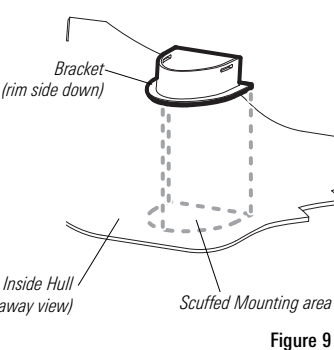


Figure 9

ROUTING THE CABLES & TESTING

1. Assembling the Connector Holder

NOTE: You must install your transducer, and route the transducer cable and power cable as described in the previous sections, before you can install the connector holder in this procedure.

1. Insert both the power and the transducer cable plugs into the connector holder. The cable plugs are labeled, and there are corresponding labels on the connector holder (Figure 17). The slots for the plugs are keyed to prevent reversed installation, and insertion should be easy - do not force plugs.

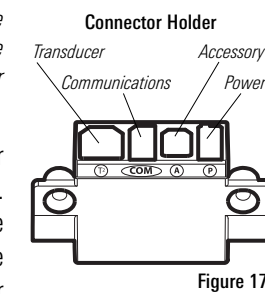


Figure 17

2. Carefully pull the excess cable from beneath the mounting surface so that the connector holder aligns with the mounting holes on the front of the mounting bracket (Figure 18).

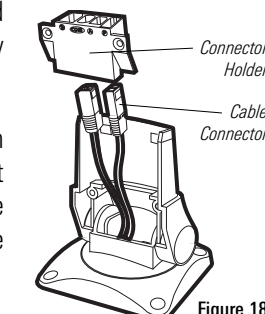


Figure 18

3. Snap the support plate onto the rear of the connector holder (Figure 19).

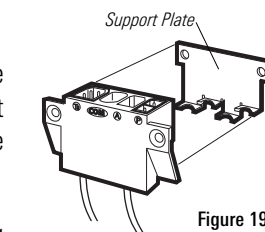


Figure 19

4. Insert the connector holder into place and fasten it to the mounting bracket using the two #6-19 x 3/4" screws (Figure 20). **Hand-tighten only.**

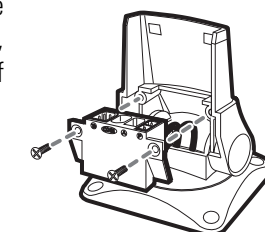


Figure 20

5. Slide the control head onto the mounting bracket until it is fully seated. To remove the unit, grasp the unit with both hands, then firmly press the latch on the rear of the unit and lift (Figure 21).

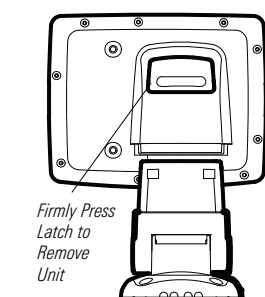


Figure 21

NOTE: This latch is heavy-duty to withstand marine use, and significant force must be applied.

2. Test and Finish the Installation

Once you have installed the control head, transducer, and power, and have routed all the cables, you should perform a final test. Testing should be performed with the boat in the water.

1. Press POWER once to turn on the control head. If the unit does not power up, make sure that the connector holder is fully seated in the receptacle and that power is available.
2. If all connections are correct and power is available, the Humminbird® control head will enter Normal operation.
3. If the bottom is visible on-screen with a digital depth readout, the unit is working properly. Make sure that the boat is in water greater than 2' but less than the depth capability of the unit, since the sonar signal cannot pass through air.

STORING THE HUMMINBIRD FISHFINDER

You should take the control head and battery with you when not in use, during transportation, or storage.

1. Power Off the control head.
2. Unplug the power cable and transducer cable if you are not planning continued operation.
3. Remove the control head from the quick disconnect mount, and cover the mount with the included cover.
4. Remove the battery from the dry bag so that you can charge it for future use.

NOTE: Recharge the battery after each use.

Never leave your Humminbird® in a closed car or trunk - the extremely high temperatures generated in hot weather can damage the electronics. Repairs should be performed only by authorized Humminbird® technicians.

NOTE: Allow the adhesive 24 hours to dry. Proceeding before the 24 hour period may cause the kayak transducer mount to fall off in high heat.

6. After the bracket and adhesive have cured for 24 hours, empty the whole packet of marine-grease (included) into the bracket center. Make sure it covers the bottom and inner-sides of the bracket.

NOTE: The marine-grease is environmentally-friendly material.

7. Place the transducer into the center of the bracket. Push down on the transducer until you feel it contact with the bottom of your kayak. Wiggle the transducer slightly from side to side to reduce air bubbles (Figure 10).

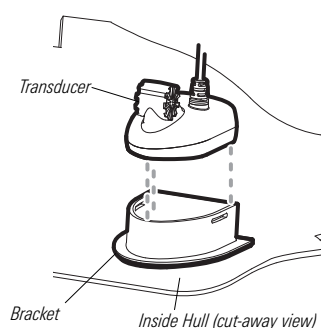


Figure 10

8. Thread the tie-down strap (included) through the bracket holes, and connect both ends of the strap over the top by looping the small end through the tie-down strap hole. Make sure that the strap is pulled tight around the transducer and that the transducer is seated securely in the bracket (Figure 11).

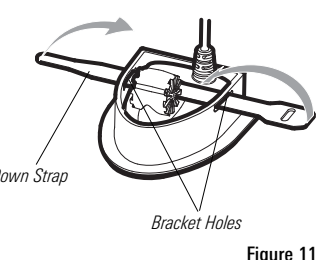


Figure 11

BATTERY INSTALLATION

1. Charging the Battery

A 6' long power cable is included to supply power to the control head.

CAUTION! Make sure that the power cable is NOT connected to the control head at the beginning of this procedure.

NOTE: Humminbird® is not responsible for over-voltage or over-current failures.

1. Charge the battery, using the included battery charger, until it is fully charged. Charging usually requires 8 continuous hours but may vary depending on your configuration. The LED on the charger will turn green when the battery is fully charged.

NOTE: Some international models may not include a battery or battery charger.

NOTE: The battery charger uses a yellow LED to indicate it is charging. On some models, this light might appear closer to orange than yellow. When this happens, the battery is still charging properly and should be left to charge until the LED becomes green.

CAUTION! Do not pull on the battery or charger cables when you are trying to connect them to or disconnect them from the battery terminals. Push or pull gently on the spade terminals instead. If the connector feels tight, use a slight wiggling motion to slide the spade connector into place on the terminal (Figure 12).

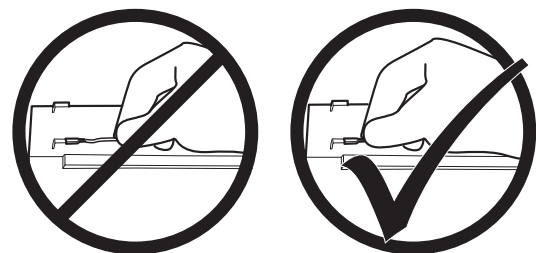


Figure 12

2. Installing the Battery Dry Bag

CAUTION! Make sure that the power cable is NOT connected to the control head at the beginning of this procedure.

1. Slide the included spade clips over the power cable wires and crimp the connections closed with a crimp tool (Figures 13 and 14).
2. Slide the spade clips over the battery terminals, connecting the red wire to the red terminal, and the black wire to the black terminal.
3. With the dry bag resting on a stable surface, place the battery into the bottom of the dry bag (Figure 15).
4. Pull the power cable out of the dry bag and set it to one side. Seal the dry bag, roll it down, and buckle it closed (Figure 16).

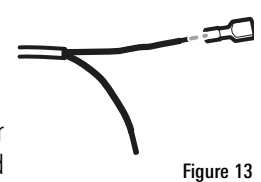


Figure 13

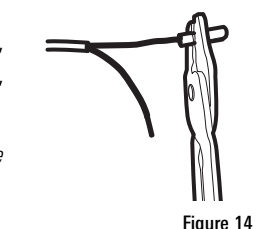


Figure 14

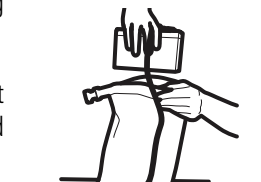


Figure 15



Figure 16

NOTE: The included dry bag is water resistant but not waterproof. Do not submerge the dry bag or battery in water at any time.

5. Place the closed dry bag inside the hull. Make sure the dry bag is secured so it does not slide or pull on the power cable. The dry bag should be secured in the hull, on a flat surface, stable enough to protect the battery from water, movement, and vibration.