

PIRANHA PORTABLE INSTALLATION GUIDE

Thank you for purchasing a Piranha fishfinder from Humminbird, America's #1 Manufacturer of quality consumer marine electronics.

WARNING! This device should not be used as a navigational aid to prevent collision, grounding, boat damage, or personal injury. When the boat is moving, water depth may change too quickly to allow time for you to react. Always operate the boat at very slow speeds if you suspect shallow water or submerged objects.

CAUTION: Do not handle the bottom of the transducer while it is transmitting sonar. Prolonged contact with the bottom transducer element can cause physical discomfort or minor tissue damage.

WARNING: Disassembly and repair of this electronic unit should only be performed by authorized service personnel. Any modification of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty. Handling and/or opening this unit may result in exposure to lead, in the form of solder.

WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects and other reproductive harm.

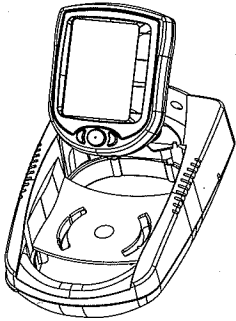


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BEFORE YOU BEGIN

The Piranha Portable Fishing System is available in two different configurations:

- the Portable Piranha, which includes a control head with portable case and removable power cable, a transducer and a portable mounting bracket, and connecting hardware.
- a Piranha Portable Conversion Kit, which will allow you to convert a Piranha fishfinder you may already own into a portable unit by means of an attachable suction cup for the transducer and a portable base for the control head.



There may be some minor differences between the hardware described in this manual and the actual hardware included, depending on the configuration you purchased.

PORTABLE CONVERSION KIT

If you have a Piranha Portable Conversion Kit, you must first un-install the control head and the transducer from their respective fixed mounting positions on your boat before performing the regular portable installation instructions described in this manual. Once you have converted the control head and the transducer to portable configurations, you will be ready to mount the portable case.

CONVERTING THE CONTROL HEAD TO PORTABLE

- Unplug the power and transducer cables from your control head.
- Unscrew the thumbknob bolt and save it for the portable installation.
- Loosen and remove the control head from the fixed mounting bracket.
- Go to **Portable Case Assembly** and follow the instructions for **Attaching the Control Head to the Portable Case**, using the thumbknob bolt you saved from this procedure, then come back to **Converting the Transducer to Portable**.

CONVERTING THE TRANSDUCER TO PORTABLE

- Make sure that the power cable is unplugged from the control head before continuing with this procedure.
- Unscrew the transducer from the fixed mounting bracket on your boat, saving the original screws for any future fixed mounting configuration (new portable mounting screws are provided in the Portable Conversion Kit).
- Go to **Portable Case Assembly** and follow the the rest of the procedures in **Assembling the Transducer Mounting Bracket**, **Attaching the Transducer** and **Installing the Batteries**.

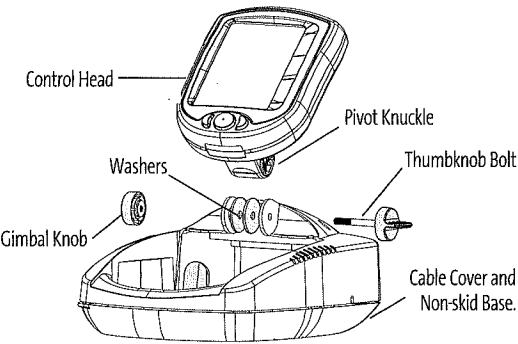
PORTABLE CASE ASSEMBLY

You should perform the portable case assembly tasks in order, referring to the step-by-step procedures which represent the following main assembly tasks:

- Attaching the control head
- Assembling the transducer mounting bracket
- Attaching the transducer cable
- Installing the batteries.

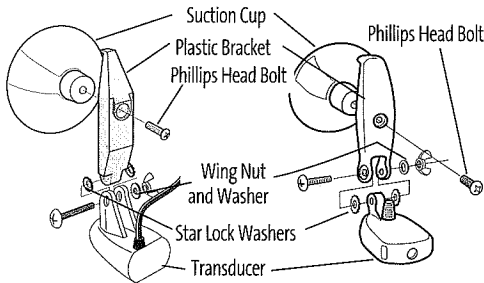
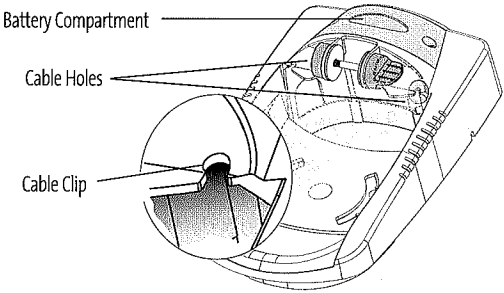
When you are done, the control head and the transducer will be part of the portable case assembly.

NOTE: If you are converting a fixed mounting to portable using the Piranha Portable Conversion Kit, first go to the **Portable Conversion Kit** section.



ATTACHING THE CONTROL HEAD TO THE PORTABLE CASE

- Remove the thumbknob bolt, gimbal knob, and rubber washers from the hardware bags.
- Place the rubber washers between the control head's pivot knuckle and the arms from the portable case. Make sure that the control head screen is facing the case.
- Slide the thumbknob bolt through the side with the smaller hole (1/4") and screw the gimbal knob onto it using only 2-3 turns. The gimbal knob may have two alignment pins that will seat into holes in the case arm holding the Piranha control head. If these pins are present, make sure that they are seated and then snugly tighten the assembly.

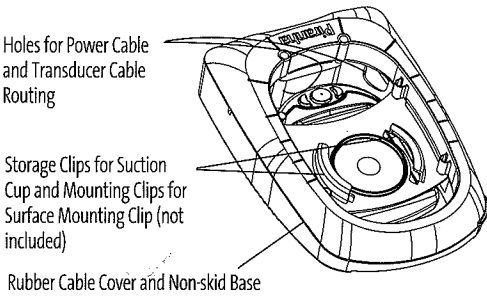


Your transducer and bracket may look like either of these illustrations

ASSEMBLING THE TRANSDUCER MOUNTING BRACKET

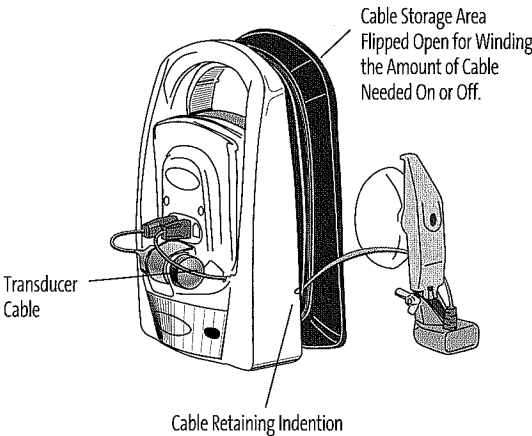
NOTE: Depending on your transducer type, you will use only one of the two mounting brackets included (see illustrations).

- With a #2 Phillips screwdriver, attach the suction cup to the mounting bracket using the 1/4-20 x 3/4" machine screw. Hand tighten only; do not use power tools.
- Connect the transducer body to the mounting arm using a #2 Phillips screwdriver and the hardware shown. Hand tighten only; do not use power tools.



ATTACHING THE TRANSDUCER

- Flip open the rubber cable retaining cover on the back of the case by pulling on the tab located at the upper left corner.
- Thread the end of the transducer cable through the transducer cable hole which is located on the back of the case (see illustration).
- Plug the transducer cable into the back of the control head.
- Turn the case so that you are looking at the front, make sure there is enough slack in the transducer cable, then push it into the transducer cable clip on the left (see illustration).
- Wind the transducer cable around the cable channel.
- When finished winding, clip the cable on one of the two indentions located on either side of the case.



- Push down on the cable cover to conceal the cable.
- Attach the suction cup transducer assembly to the back of the case by pinching the suction cup on both sides and allowing it to snap into the universal mount. (This universal mount also acts as a surface mount attachment. See the Surface Mounting section for more information.)
- Depending on the type of transducer that comes with your Piranha, you may need to pivot the transducer down so that it is flattened to fit in the case.

NOTE: Some types of transducer will not fit in the case.

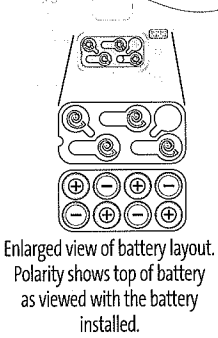
INSTALLING THE BATTERIES

- With a #2 Phillips screwdriver, remove both screws located on either side of the battery door.
- Insert the 8 AA batteries (not included) into the case as shown on the diagram inside the battery compartment.

NOTE: It is recommended that only high quality alkaline batteries be used.

- Before reattaching the battery door, make sure the silicon gasket is still in place. It should be just above the plastic, and completely in the gasket channel. Make sure that the gasket is clean of debris.

4. Reattach the battery door to the case using a #2 Phillips screwdriver. Partially insert one screw and then the other. Fully seat the screws. Hand tighten only; do not use power tools.
5. Plug the power cable connector into the Piranha unit to make it ready for use.
6. Under normal use you should expect the life of the batteries to last between 25 hours (with the LCD backlight(s) on,) and 60 hours (with the backlight(s) off.)



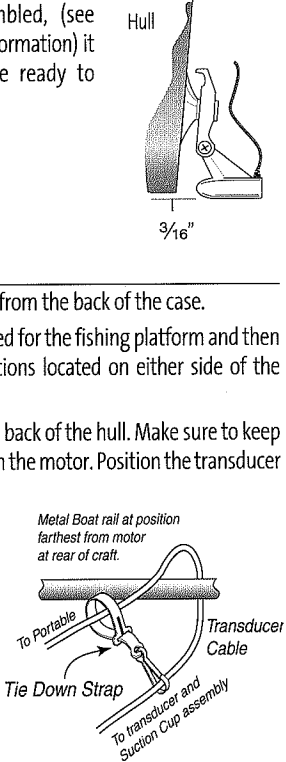
MOUNTING THE PIRANHA PORTABLE

Once your Piranha Portable is fully assembled, (see the Portable Case Assembly section for more information) it takes just a few easy steps before you are ready to fish, namely:

- Mount the transducer
- Mount the portable case
- Plug in the power connector.

MOUNTING THE TRANSDUCER

1. Detach the transducer suction cup mount from the back of the case.
2. Unwind the desired amount of cable needed for the fishing platform and then clip the cable into one of the two indentions located on either side of the portable case.
3. Attach the suction cup to a flat spot on the back of the hull. Make sure to keep the transducer at least 20 inches away from the motor. Position the transducer as shown in the illustration above.
4. When using the suction cup transducer on a moving boat, it is best to secure the transducer cable in case of accidental release. A loose transducer cable can cause damage to itself, your boat, or become entangled in the propeller. Attach the tie down strap to the transducer cable and loop the cable around an immovable object such as a rail or fitting as shown in the illustration.
5. If desired, mount the case (see Mounting the Portable Case section for more information).
6. Rotate the control head up, power the unit on, and fish (for information on how to use the control head see your Piranha Operations manual.)



MOUNTING THE PORTABLE CASE

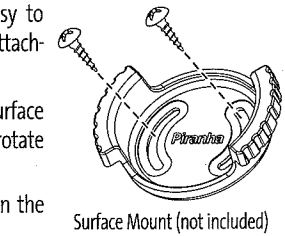
Since the Piranha Portable case has a large non-skid mounting surface, it may be attached to almost any surface. If you desire a more secure attachment than the existing mounting surface, you may choose to implement one of the following options:

- Surface mount (not included)
- Nylon web strap (not included and not offered by Humminbird).

SURFACE MOUNTING

The Piranha Portable surface mount is an easy to install mount that allows for quick and secure attachment to many different surfaces.

1. Place the surface mount on the desired surface and make sure there is enough room to rotate the case 180 degrees.
2. Put a mark in each curved slot located on the surface mount.
3. Remove the mount and drill two 1/8" (3.2mm) pilot holes.
4. Using a #2 Phillips screwdriver, attach the two #8 screws provided in the hardware bags. Hand tighten only; do not use power tools.
5. For best results have the "Piranha" text on the surface mount face you right side up and horizontal, reading from left to right, as shown in the illustration. This will line up the control head.
6. Align the universal mount on the back of the Piranha Portable case with the surface mount by turning the portable case 90 degrees.
7. Press the center section and then twist the Piranha Portable case until it is facing you. Six clicks produces maximum clamping and aligns the control head.
8. For fine-tuning, remove the Piranha Portable case and loosen the two screws. Rotate the surface mount and retighten the screws.

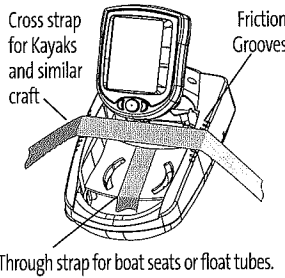


NYLON WEB STRAP MOUNTING

(not included AND not offered by Humminbird)

There are multiple ways in which to strap your Piranha Portable to your fishing platform:

1. Friction grooves, located on the left and the right of the Piranha Portable case, are specially designed to grip a standard 1/2 to 2 inch nylon web strap (which you can purchase at any marine supply store). With the control head up you can make use of the friction grooves by wrapping the nylon web strap around the case.
2. Other ways of strapping that make use of a 1/2-inch nylon web strap that is positioned across the suction cup retainer bridge, (see illustration above). This is useful when strapping to a seat or tube.



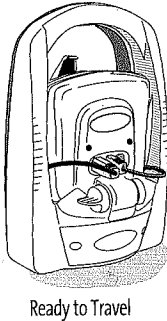
CONNECTING THE POWER

1. Plug the power cable connector into the back of your portable control head.
2. Clip the cable into the indentation located on the side of the case that does not have the transducer cable attached.
3. Verify that the transducer is still plugged into the portable case.
4. Your unit is now ready to be powered on and used.

MOVING THE PIRANHA PORTABLE

You should take the portable case with you when you leave the boat and will not be using it. Perform the following steps to make your Piranha mobile:

1. With the boat engine off, loosen all cable retainers/clips holding the transducer.
2. Remove the case from the surface mount.
3. Remove the transducer from the surface where it has been mounted.
4. Turn the case over, flip open the rubber cable retainer by pulling on the tab located at the upper left corner, and wrap the cable back into the cable run, then push the cable under the cable retaining indentation. Attach the suction cup to the back of the portable case and rotate the transducer body flat.
5. Unplug the power cable when not in use. If you will not be using the unit again in the near future, remove the batteries to prevent corrosion, and store.



MAINTENANCE

Your Humminbird Portable fishfinder is designed to provide years of trouble-free operation with virtually no maintenance. Follow the simple procedures below to ensure that your Humminbird Portable continues to deliver top performance.

If you are storing the Portable case for an extended period of time, remove the batteries from the battery compartment in order to avoid battery leakage.

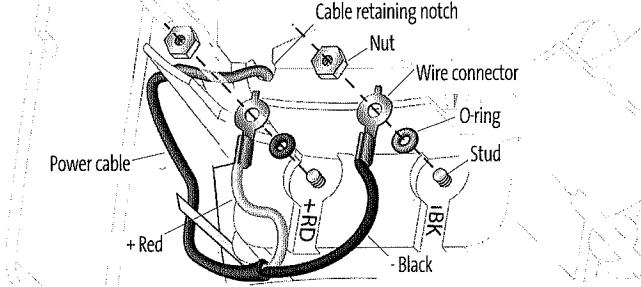
If the Portable case comes into contact with salt spray, flush the unit and portable case with fresh water, wipe the affected surfaces with a lint-free cloth, then apply a commercially available anti-corrosive treatment to all exposed electrical contacts.

Never leave your Humminbird Portable unit 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.

REPLACING THE BATTERY POWER CABLE

NOTE: You will not have to install the battery power cable before first use, but may need to replace it should it become corroded after prolonged usage in a marine environment.

1. With a #2 Phillips screwdriver, remove both screws located on either side of the battery door and set the screws aside. Remove the battery door from the portable case and remove the batteries, also setting them aside.
2. Open the rubber cable cover/retainer on the back of the portable case by pulling on the tab located at the upper left corner.
3. Make sure the transducer cable is totally removed from the cable channel, and detach the power cable from the control head and pull it through the power cable hole.
4. Place your finger (or a flat or hex driver) on the back side of the positive lead stud (accessed through the newly-emptied battery cavity), then, using a 1/4" hex driver, disconnect the original battery cable from that ONE lead only by unscrewing the nut that holds the cable lead in place. Make sure that you also save the O-ring that is used on each cable lead for use with the new cable.
5. Clean the stud if it is corroded, then apply a commercially available anti-corrosive treatment to all exposed electrical contacts to prevent further corrosion.



6. To install the new power cable, place the O-ring on the positive stud, then the red wire connector and hex nut you retained from the original battery cable, and hand tighten. You may want to use a nut driver to secure the terminal screw from the other side while you hand-tighten the nut over the cable lead. (Do not use power tools.)
7. Repeat steps 4 and 5 for the negative cable lead, then place the O-ring on the negative stud and replace the black wire connector and hex nut you retained from the original battery cable and hand tighten.
8. Thread the other end of the power cable through the power cable hole.
9. Make sure there is enough slack in the wire, then push it under the power cable clip.
10. Plug the power cable into the back of the control head.
11. Re-install the transducer.
12. Flip up the cable retainer to conceal the cable.
13. Re-install the batteries saved from step 1 and close the battery door, then re-install it using the screws you also saved from step 1.

CUSTOMER RESOURCE CENTER

If you have any questions, call our Humminbird Customer Resource Center Hotline: 1-800-633-1468.

Throughout the U.S. and Canada, hours are Monday-Friday, 8:15 a.m. to 4:45 p.m. Central time. Or, visit our web site: www.humminbird.com for Product Support and troubleshooting guides.

Humminbird
Service Department
678 Humminbird Lane
Eufaula, AL 36027

SPECIFICATIONS

Portable Case	9 3/4" H x 6 1/4" W x 5" D
	248mm H x 159mm W x 127mm D
Power Requirement	Eight AA 1.5 volt alkaline batteries (Not included)
Mounting	Versatile options, from quick disconnect to web strap (web strap not include and not offered by Humminbird).