

PORTABLE INSTALLATION GUIDE

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

BEFORE YOU BEGIN

The Portable Fishing System is available in two different configurations:

- the **Portable Control Head**, which includes a control head with portable case and power cable, a transducer jumper cable, a transducer and a portable mounting bracket, battery, battery charger, and connecting hardware.
- a **Portable Conversion Kit**, which will allow you to convert a fishfinder you may already own into a portable unit. This includes a portable case for the control head, a power cable, a transducer jumper cable, a portable mounting bracket, a battery, battery charger, and connecting hardware.

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

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 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.

1. Converting the Control Head to Portable

1. Unplug the control head from the quick disconnect mount on your boat.
2. Go to **Portable Case Assembly** and follow the instructions through **Section 5. Charging and Installing the Battery**, then come back to **Converting the Transducer to Portable**.

2. Converting the Transducer to Portable

1. Make sure that the control head is detached from the quick disconnect mount.
2. Pull the transducer cable out of the quick disconnect mount.
3. 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).
4. Go to **Assembling the Transducer Mounting Bracket** and follow the rest of the procedures.

PORTABLE CASE ASSEMBLY

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

- Assembling the quick disconnect mount
- Routing the cables in the base
- Assembling the portable case
- Attaching the control head to the portable case
- Charging and installing the battery
- Assembling the transducer mounting bracket
- Stowing the portable transducer and battery charger into the portable case.

When you are done, the control head and the transducer will be part of the portable case assembly, and you will be ready to take your portable case to the boat for final setup.

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

1. Assembling the Quick Disconnect Mount

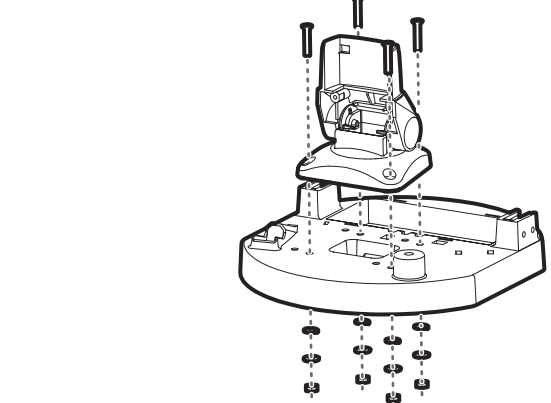
In this procedure, you will install the quick disconnect mount to the base of the portable case, and then install the cable collector onto the quick disconnect mount.

1. Determine which set of quick disconnect mounting holes to use by referring to the following table.
- | | | |
|--------------------|-------|------------|
| 300 Series™ | | Hole Set A |
| 500 Series™ | | Hole Set B |
| Matrix® | | Hole Set B |
| 700 Series™ | | Hole Set B |
| PiranhaMAX™ Series | | Hole Set C |

2. Turn over the base, and use a screwdriver or an awl, plus a hammer to punch out the selected mounting holes as shown in the illustration **Punching Holes**.
3. Line up the quick disconnect mount on the portable base, using the holes you punched out in step 2 on the base. Make sure the quick disconnect mount is fully raised (ratcheted open), with the Humminbird® logo facing towards the battery well on the base.

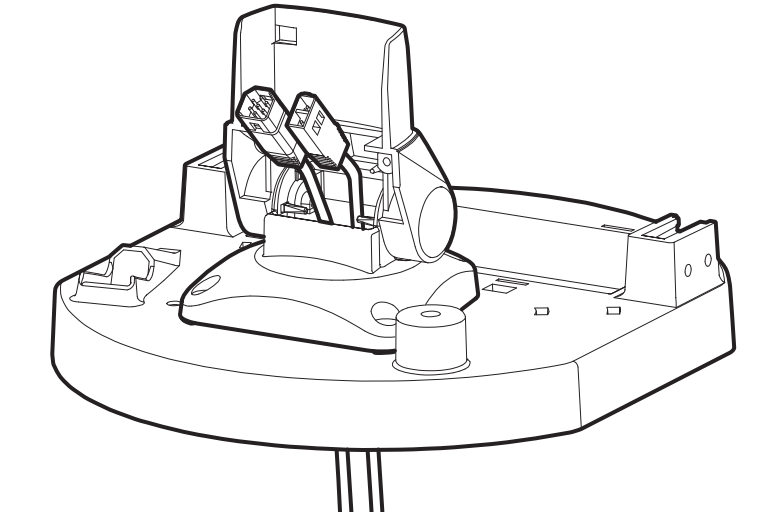
4. Using a socket wrench and a Phillips screwdriver, secure the quick disconnect mount to the base with the four included 1" screws, lock washers, and nuts (see the illustration **Attaching the Quick Disconnect Mount to the Base**.) **Hand tighten only!**

Attaching the Quick Disconnect Mount to the Base



5. Route the power cable, and then the transducer jumper cable, from under the base and up through the quick disconnect mount (see the illustration **Pulling the Cables Through the Base**).

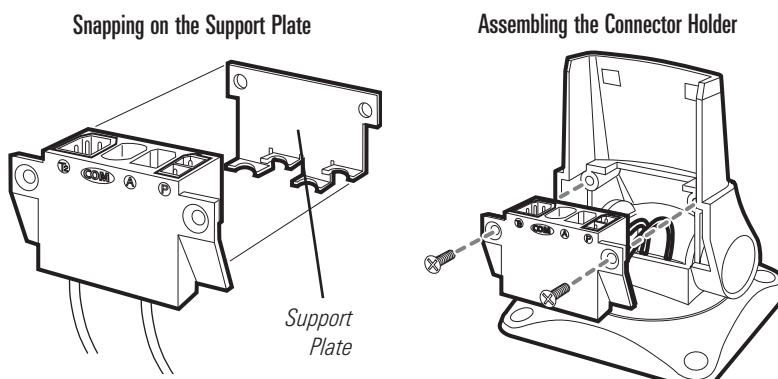
Pulling the Cables Through the Base



6. Insert both the power and the transducer jumper cable plugs into the connector holder. The cable plugs are labeled, and there are corresponding labels on the connector holder. The slots for the plugs are keyed to prevent reverse installation, and insertion should be easy - do not force plugs.

7. 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.

8. Snap the support plate onto the rear of the connector holder (see the illustration **Snapping on the Support Plate**).



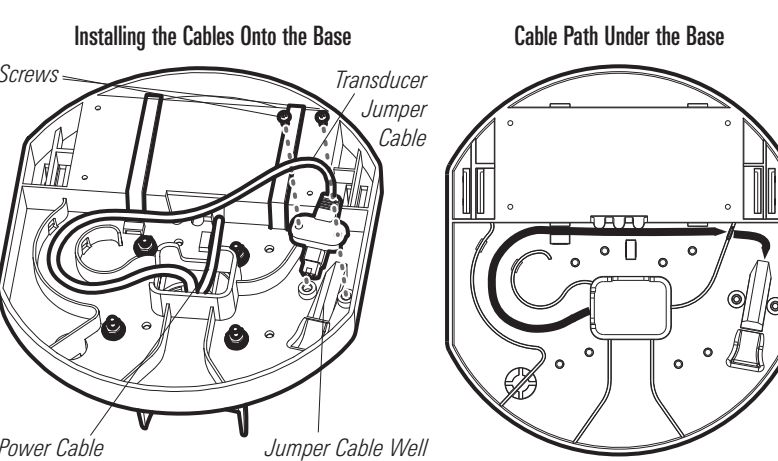
9. Insert the connector holder into place and fasten it to the mounting bracket using the two #6-32 x 3/4" screws (see the illustration **Assembling the Connector Holder**). **Hand-tighten only.**

2. Routing the Cables in the Base

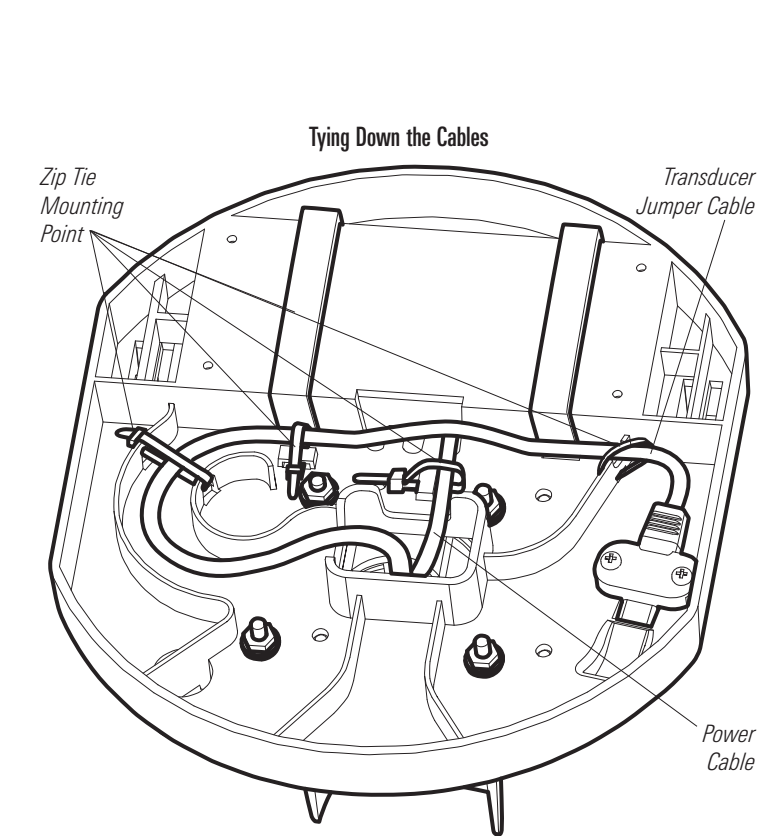
In this procedure, you will route the power and transducer jumper cables on the underside of the base, and attach the tie-down straps that will be used to secure the battery to the base in a later procedure.

1. Turn the base upside down, then thread the two included hook and loop battery tie-down straps from the bottom of the base up through each side of the battery well, using the strap holes (see the illustration **Attaching the Battery Tie-Down Straps**).

2. Pull the power cable through the opening in the long side of the cable well and insert it into the battery well (see the illustration **Installing the Cables Onto the Base**).
3. Route the transducer jumper cable (see the illustration **Installing the Cables Onto the Base**) out the short side of the cable well and follow the arrows on the base (see the illustration **Cable Path Under the Base**).



4. Fit the transducer jumper cable connector down into the jumper cable well and snap it into place. Insert the two #6-32 x 1/4" screws included to secure the transducer jumper connector and tighten using a Phillips screwdriver. **Hand tighten only!**
5. Secure all cables to the base, using the included zip ties, at the mount points shown in the illustration (see the illustration **Tying Down the Cables**).



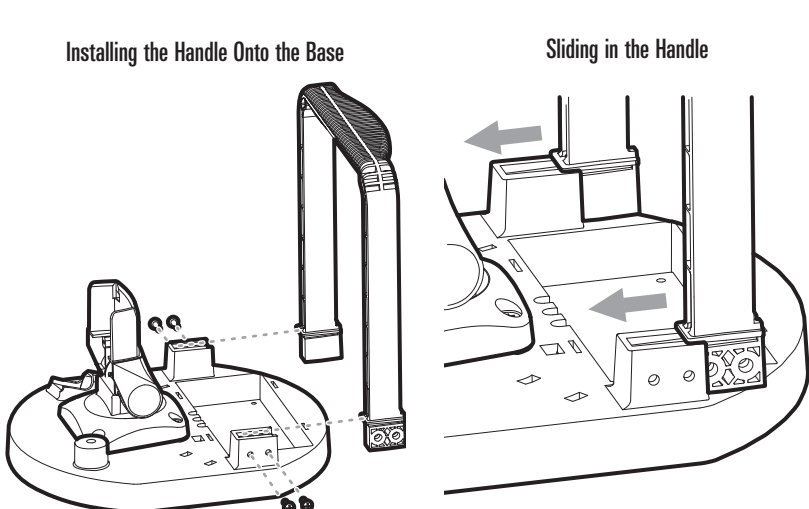
6. Turn the base right side up and pull up gently on the battery tie-down straps to remove the slack.

NOTE: You will need to perform more assembly procedures, as well as charge the battery for 8 hours, before you install the battery into the portable case. See **5. Charging and Installing the Battery** for more information.

3. Assembling the Portable Case

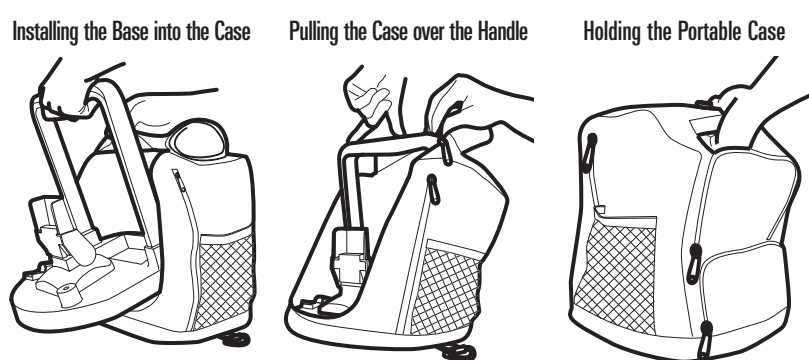
In this procedure, you will install the handle onto the base, and install the base into the portable case.

1. Install the handle onto the base, so that the curved part of the handle faces towards the back of the base, towards the battery well. Use the four included #8-32 x 7/16" screws, two on each side, to attach the handle to the base (see the illustrations **Installing the Handle Onto the Base** and **Sliding in the Handle**). **Hand tighten only!**



NOTE: The handle is keyed so that it only fits onto the base in one way.

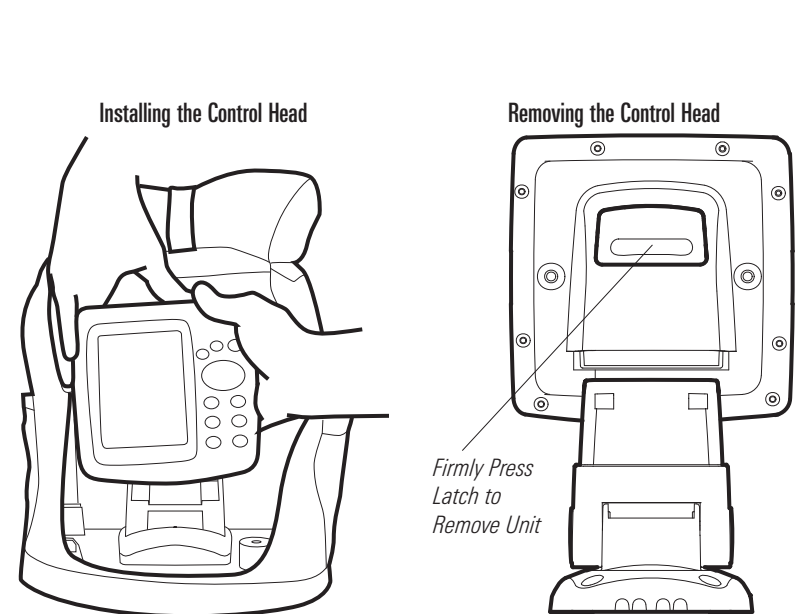
2. Install the base and handle assembly into the portable case by unzipping the largest opening in the portable case (on the front) and inserting the base into the portable case, so that the Quick Disconnect Mount is towards the front of the portable case. Pull the bag over one shoulder of the handle at a time for best results. Make sure that you can grab the handle through the fabric handhold inset from the outside top of the portable case (see the illustrations **Installing the Base into the Case**, **Pulling the Case over the Handle**, and **Holding the Portable Case**).



4. Attaching the Control Head to the Portable Case

In this procedure, you will install the control head into the portable case, using the quick disconnect mount.

1. Make sure the front (large) opening in the front of the portable case is unzipped; you may want to roll up the flap and secure it with the provided strap and clip while you're working.
2. Slide the control head onto the quick disconnect mounting bracket until it is fully seated (see the illustration **Installing the Control Head**).



NOTE: To remove the control head, grasp it with both hands, then firmly press the latch on the rear of the control head and lift. The latch on the Quick Disconnect Mount is heavy-duty to withstand marine use, and significant force must be applied (see the illustration **Removing the Control Head**).

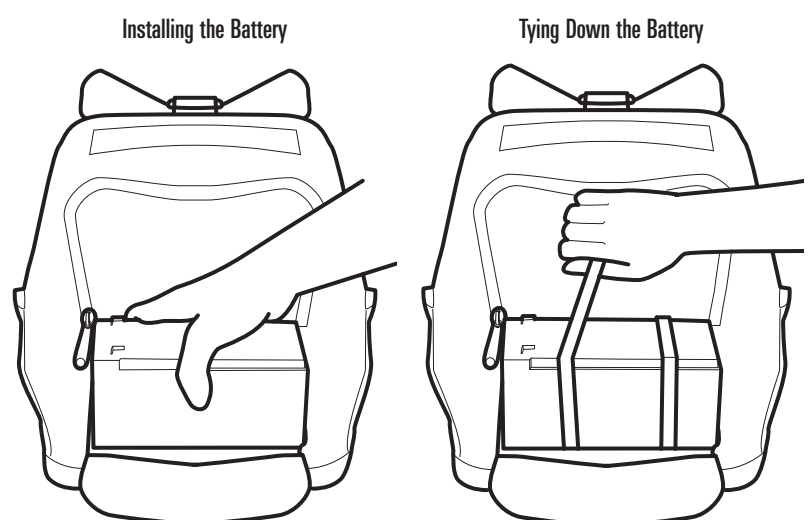
5. Charging and Installing the Battery

In this procedure you will charge and then install and secure the battery.

1. Charge the battery, using the included battery charger, until it is fully charged as indicated by the LED on the charger. Charging usually requires 8 continuous hours, but may vary depending on your configuration.

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

2. Open the bottom back zipper on the portable case, and install the battery in the battery well. While holding the tie-down straps out of the way, make sure the power cable is fitted snugly into the slot in the well so that the battery does not rest on it (see the illustration **Installing the Battery**).



3. Pull the two battery tie-down straps over the top of the battery and connect both ends of each strap over the top, making sure that the straps are pulled tight around the battery and that the battery is seated securely in the battery well.
4. Zip up the back opening.

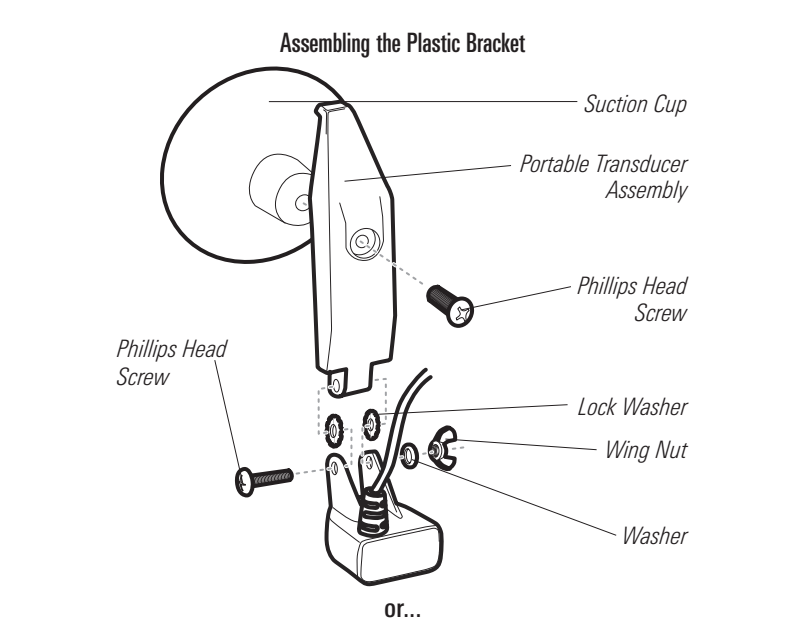
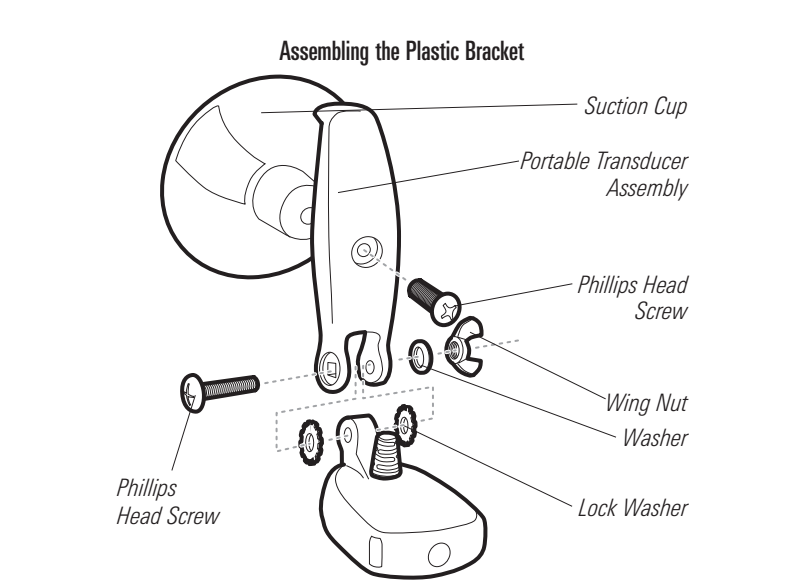
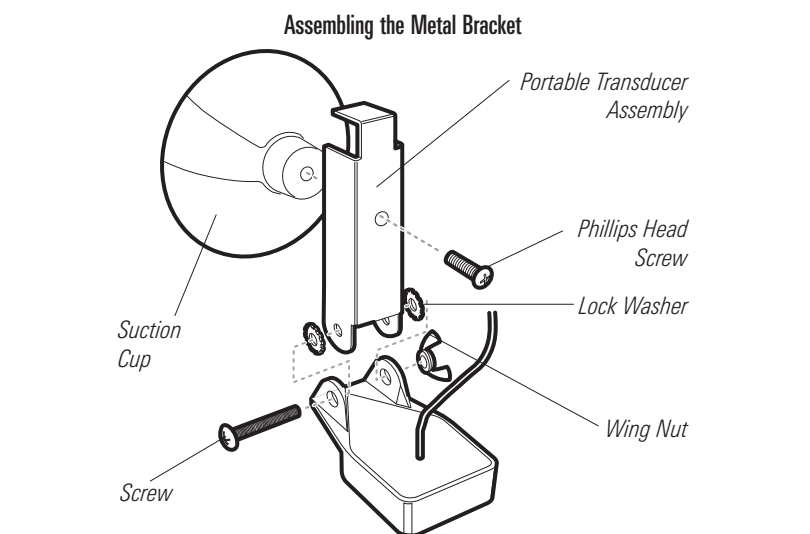
NOTE: Do NOT connect the power cable to the battery at this time. You should wait until just before fishing to connect the power cable to the battery.

6. Assembling the Transducer Mounting Bracket

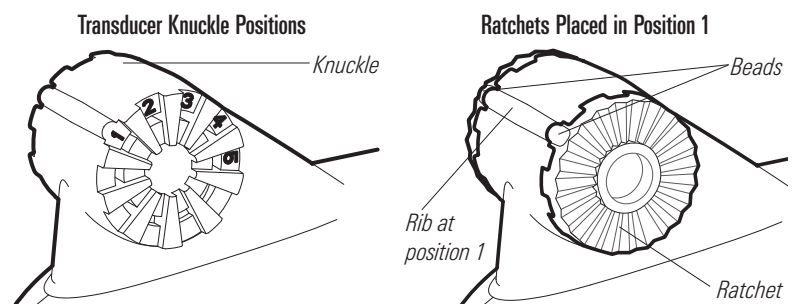
NOTE: Please be aware that the transducer design has changed. If you are replacing or adding mounting hardware to your current transducer, make sure that you have selected the appropriate hardware. If you are replacing a transducer, you will need to replace the mounting bracket and hardware as well.

In this procedure you will determine which mounting bracket you have and assemble your transducer.

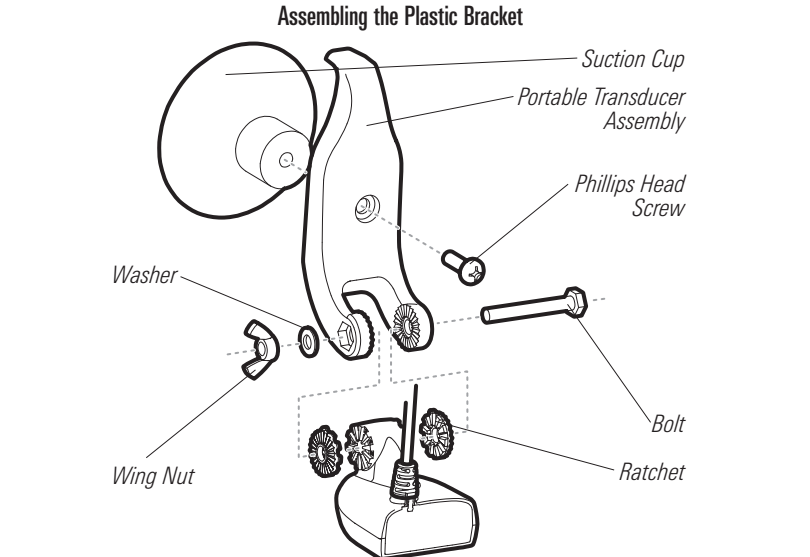
- 1a. If your transducer mounting bracket looks like one of the following illustrations, assemble it as shown. **Hand tighten only!** Then skip to procedure **7. Stowing the Portable Transducer and Battery Charger into the Portable Case**.



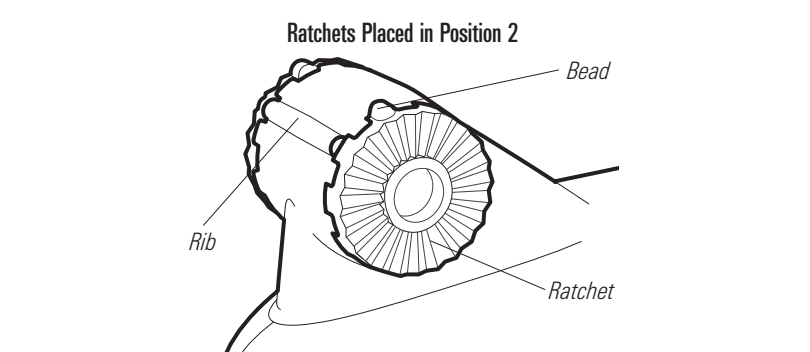
- 1b. If your transducer mounting bracket looks like the one below, line up the two ratchet pieces at position 1 so that the beads are aligned with the rib on the transducer. See illustrations.



2. Assemble the other transducer parts as shown (see the illustration **Assembling the Plastic Bracket** below). **Hand tighten only!**



NOTE: If you are unable to ratchet the transducer so that it rests below the water and points straight down, you can disassemble it and align the beads with a different number until you reach a position that allows the proper alignment.



7. Stowing the Portable Transducer and Battery Charger into the Portable Case

1. Load the portable transducer into the carrying compartment (upper zip opening on the back of the portable case) and close the zipper.
2. Turn the portable case around so that you can access the front, and load the battery charger into the zip pocket on the left as you face the front of the portable case.
3. Make sure all the zippers are closed.

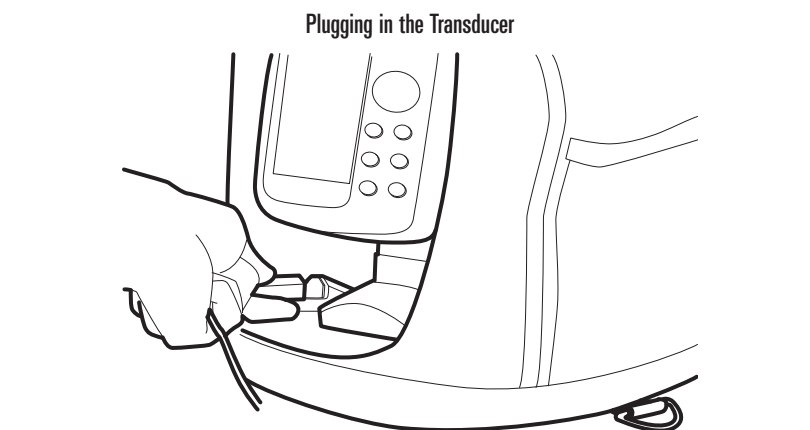
INSTALLING THE PORTABLE CASE ON THE BOAT

Since the portable case has a large non-skid mounting surface, it may be attached to almost any surface.

In this section, you will route the cables on the boat, connect the transducer and power cables to the portable case, and attach the portable case to a dry and convenient location on your boat.

1. Connecting the Transducer and Power Cables to the Portable Case

1. Make sure the large opening in the front of the portable case is unzipped; you may want to roll up the flap and secure it with the provided strap and clip while you're working.
2. Plug the transducer cable into the jumper port in the portable case to the left of the control head, as you face the front of the bag (see the illustration **Plugging in the Transducer**).



3. Turn the portable case around so that you can access the back, and open the back zipper. Connect the spade clip on the red wire of the power cable to the red terminal on the battery, and the spade clip on the black wire of the power cable to the black terminal on the battery, and make sure that the spade clips are snugly attached to the terminals (see the illustration **Connecting the Spade Clips**).
4. Make sure the back battery door and side pockets are zipped, but leave the front of the bag unzipped for easy access during installation.

2. Attaching the Portable Case to the Boat

1. Attach the portable case to a surface on the boat by threading rope or bungee cord (not provided) through the D-rings on either side of the portable case.

NOTE: Humminbird® recommends that you do NOT position the portable case on the bottom of the boat, or in a location where it can be splashed by or immersed in water, as the portable case is water resistant, but not waterproof.

MOUNTING THE PORTABLE TRANSDUCER

Once your Portable fishfinder 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:

- Test the transducer prior to installation
- Mount the portable transducer on the boat

1. Testing the Transducer Prior to Installation

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

1. Hold the transducer in the water over the side of the boat to confirm proper operation. If the transducer is working properly, you should be able to see the bottom on the control head display.

2. Mounting the Portable Transducer on the Boat

Perform the procedures in this section to install the transducer on your boat.

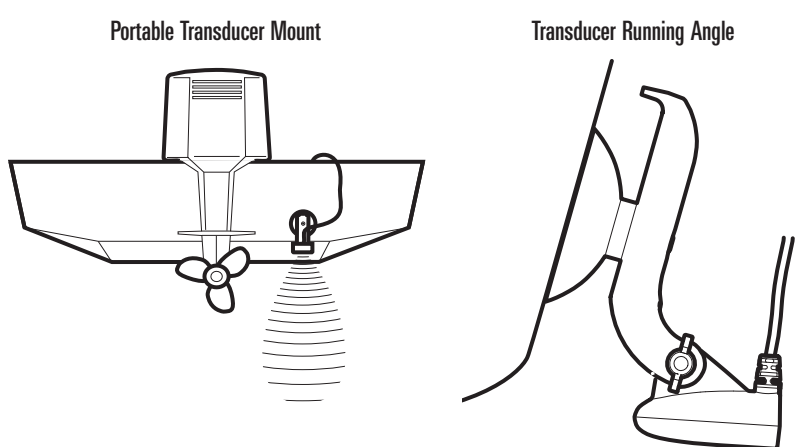
NOTE: The suction cup mount is designed for quick, easy installation and removal, NOT for high speed operation. If you intend to operate your boat at any speed faster than trolling speeds, remove the suction cup transducer from the water.

It is important that the mounting position allows the transducer to rest beneath the surface of the water, pointing straight down. You can mount the transducer anywhere on the side of the boat if your boat remains stationary. If you are trolling, it is best to mount the transducer on the transom of the boat.

Your portable transducer is designed to be installed and adjusted without the use of tools. Mounting the transducer to the boat is a simple, yet important operation. A poor mounting location will affect the overall performance of the Humminbird® unit, so follow the mounting instructions carefully. It is important that the mounting position allows the transducer to rest beneath the surface of the water, pointing straight down. You can mount the transducer anywhere on the side of the boat if your boat remains stationary.

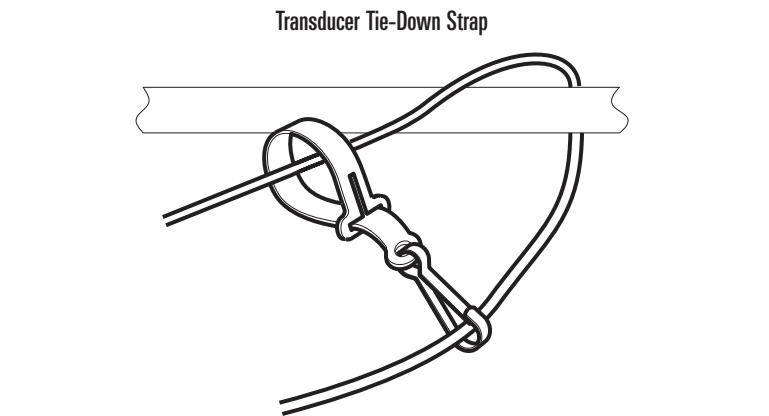
If you are trolling, it is best to mount the transducer on the transom of the boat.

1. Mount the transducer so that it points straight down, and so that the transducer itself is submerged in the water (see the illustration **Portable Transducer Mount**).



2. Adjust the running angle so that the transducer is parallel to and below the surface of the water (see the illustration **Transducer Running Angle**).
3. Hand-tighten the wing nut so that the transducer will not rotate.

4. Secure the transducer cable in case of accidental release when the boat is moving, since a loose transducer can cause damage to itself, your boat, or become tangled in the propeller. Attach the tie-down strap to the transducer cable around an immovable object such as a rail or fitting, as shown in the illustration (**Transducer Tie-Down Strap**).



5. When you have finished using the transducer, unplug the transducer cable from the transducer jumper port on the base, then coil the cable around the assembly.

MOVING THE PORTABLE FISHFINDER

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 unit 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, wipe it dry, and stow it in the portable case rear pocket.
4. Unplug the power cable when not in use.

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

If the portable case bag becomes dirty, clean the bag with mild soap, water, and a soft rag or brush and then hang it up to dry.

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.

How to Remove Water from the Portable Case

Open the front zipper and pull the case down to allow water to exit the case. If needed, remove the case from the plastic base and air-dry it. Follow recommended maintenance procedures for salt spray exposure if needed.

SPECIFICATIONS

Portable Case		8.75" H x 10.25" W x 9.83" D 223 mm H x 261 mm W x 250 mm D
Power Requirement		12 Volt sealed lead acid battery; up to 16 hours continuous operation