

HELIX® PORTABLE CONTROL HEAD INSTALLATION GUIDE

Follow the instructions in this installation guide to install the control head in the portable case.

There may be some minor differences between the hardware described in this manual and the actual hardware included, depending on the configuration you purchased. We encourage you to read this guide completely so that you may understand the installation requirements.

SUPPLIES: In addition to the installation kit, you will need a Phillips-head screwdriver, flat-head screwdriver, awl, hammer, and pliers.





Portable Conversion Kit

If you have a Portable Conversion Kit, you must first un-install the control head and the transducer from their fixed mounting positions before performing the portable installation instructions described in this guide. 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

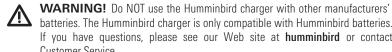
- 1. Disconnect the cables from the control head installed on your boat.
- 2. Loosen the gimbal knobs and slide the control head out of the gimbal bracket.
- 3. Go to *Portable Case Assembly* and follow the instructions through the section Installing the Base in the Portable Bag.

Converting the Transducer to Portable

- 1. Unscrew the transducer from the fixed mounting bracket on your boat, saving
- 2. Proceed to the portable transducer installation guide and follow the instructions to install the transducer.

Charging the Battery

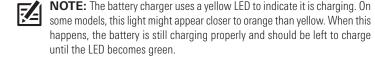
important during periods of prolonged storage.



batteries. The Humminbird charger is only compatible with Humminbird batteries. If you have questions, please see our Web site at humminbird or contact Customer Service.



as indicated by the LED on the charger. Charging usually requires 8 continuous hours, but may vary depending on your configuration.



2. Slide the battery terminal adapter over each spade terminal.







Portable Case Assembly

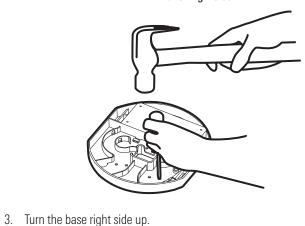
procedures that represent the following main assembly tasks:

- Routing the cables in the base
- Installing the base in the portable bag

• Stowing the portable transducer and battery charger in the portable bag

When you are finished, the control head and the transducer will be part of the portable case assembly. If you plan to use the portable case assembly for ice

- 1. Turn over the base, and locate the 4 holes labeled D.
- 2. Use a screwdriver (or an awl) with a hammer to punch out the selected mounting holes.



Confirm the screw holes

with the screw holes on

your gimbal bracket.

the base in step 2.

Blocks on the Base

fasteners. Hand tighten only.

6. Select the gimbal bracket for your control head model.

away from the battery well on the base.

7. Line up the mounting holes on the gimbal bracket with the screw holes on the

Installing the Gimbal Bracket on the Riser Blocks

8. Using a Phillips-head screwdriver, secure the gimbal bracket with the four

9. Route the power cable and the transducer jumper cable from under the base

Portable Base Assembly

10. Install the gimbal knobs into each side of the control head. Tighten the knobs

11. Insert the power and the transducer jumper cable connectors into the correct

Control Head with 3 Ports

Control Head with 4 Ports (includes Ethernet)

NOTE: The control head ports are keyed to prevent reversed installation, so be careful not to force the concepts:

12. Confirm there is enough cable slack to allow the control head to pivot through its full tilt range and for connecting or disconnecting the cables. Carefully pull

13. Disconnect the cables from the control head. Slide the control head out of the

It is important to note the amount of cable you will need to reconnect to the control head when you install it on the portable base later in the installation.

careful not to force the connectors into the wrong ports.

the excess cable from beneath the portable base.

COM (communications)

COM (communications)

just enough so you can slide the control head into the gimbal bracket arms.

ports on your control head. Refer to the illustration that matches the number of

cables routed behind the bracket

included #8 x 1 1/4" screws. **Hand tighten only!**

and up through the hole in the base.

ports on your control head.

top of the riser blocks. Make sure the opening in the gimbal bracket arms faces

angled corners – should point out

• Align the riser blocks so that the wider end of each block is on the base.

corners on the riser blocks should be facing out.

The narrow end of each riser block should be facing up. The angled

See the illustrations Aligning the Riser Blocks and Installing the Riser

Aligning the Riser Blocks

Align the screw holes on the riser blocks with the punched-out holes in the base

5. Secure the riser blocks to the base with the four included #8-15 x 3/4"

Installing the Riser Blocks on the Base

screws. See the illustration Installing the Riser Blocks on the Base. Hand

CAUTION! Do not use a high speed driver on this combination of

install each riser block with the narrow end facing up

- the original screws for any future fixed mounting configuration (new portable mounting screws are provided in the Portable Conversion Kit).

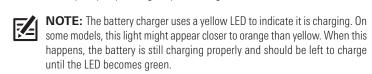
Installation Preparation

You should fully charge your battery before using it for the first time to ensure peak performance. You should also re-charge your battery at least once every 6 months to maintain your battery's peak performance levels. This is especially



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

1. Charge the battery, using the included battery charger, until it is fully charged



CAUTION! Do not pull on the battery or charger cables when you are



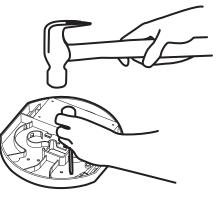


Perform the portable case assembly tasks in order, referring to the step-by-step

- Installing the riser blocks and gimbal bracket onto the portable base
- Finalizing the portable base assembly
- Installing the battery

fishing, you will be ready to take your portable case on the ice for final setup.

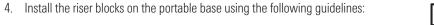
Assembling the Portable Base



Routing the Cables in the Base

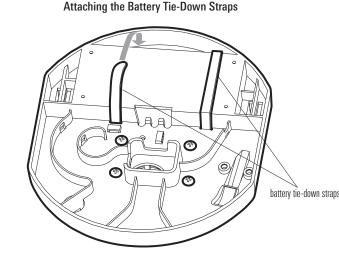
gimbal bracket and set it aside.

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.

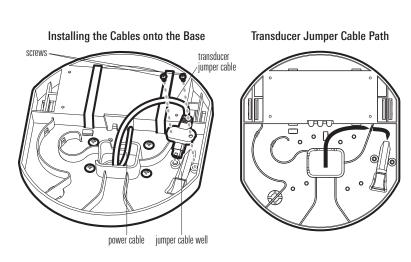


NOTE: As you route the cables, make sure you leave enough cable length on the surface of the portable base to reconnect the cables to the control head later in the • Line up the holes on the riser blocks with the holes you punched out of

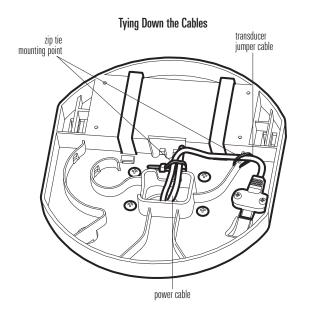
- 1. Turn the base upside down.
- 2. Thread the two included battery tie-down straps from the bottom of the base up through each side of the battery well, using the strap holes in the base. Make sure the soft side of the strap faces down.



- 3. Insert the power cable into the **center slot** of the battery well. (If you need to adjust the cable route, you can select a different slot.)
- 4. Route the transducer jumper cable as shown in the illustrations *Installing the* Cables onto the Base and Transducer Jumper Cable Path.



- 5. 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 them using a Phillips-head screwdriver. Hand tighten only!
- 6. Adjust the cables as needed. Secure all cables to the base using the included zip ties at the points shown in the illustration Tying Down the Cables.

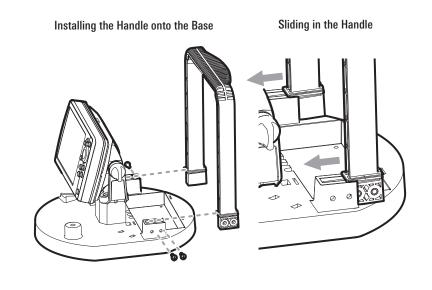


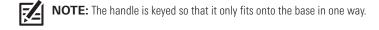
7. Turn the base right side up and pull up gently on the battery tie-down straps to



3. Finalizing the Portable Base Assembly

- 1. Slide the control head (with gimbal knobs installed) into the gimbal bracket
- 2. Insert the power and the transducer jumper cable connectors into the control head ports. See the illustrations Control Head with 3 Ports and Control Head with 4 Ports (includes Ethernet) for details.
- 3. Adjust the control head viewing angle, and tighten the gimbal knobs so the control head is secured on the gimbal bracket. Hand tighten only!
- 4. 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.
- 5. Install the four included #8-32 x 7/16" screws, two on each side of the handle, to attach the handle to the base. Hand tighten only!





4. Installing the Battery

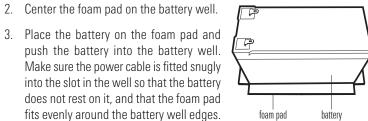
Charging the Battery).

Before proceeding with this procedure, confirm the battery is fully charged (see

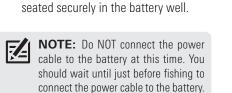


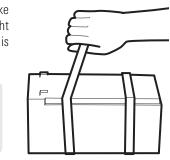
1. Move the tie-down straps out of the way so that the battery well is fully

accessible. **NOTE:** For ease of access to the battery well, move the tie-down straps to the side and secure them around the handle. 2. Center the foam pad on the battery well.



4. Pull the two battery tie-down straps over the top of the battery and connect both ends of each strap over the top. Make sure that the straps are pulled tight around the battery and that the battery is





Tying Down the Battery

1. Installing the Base in the Portable Bag

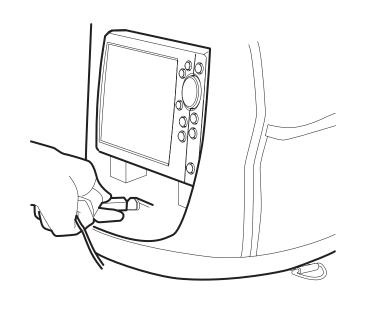
- 1. Unzip the front opening on the portable bag.
- 2. Insert the base into the portable bag, so the control head faces out of the bag. Pull the bag over one shoulder of the handle at a time. Make sure you can grab the handle through the fabric handhold inset from the outside top of the portable bag.



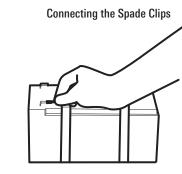
$oldsymbol{6}$. Connecting Power and the Transducer Cable to the Portable Case

- 1. Make sure the large opening in the front of the portable bag is unzipped. You may want to roll up the flap and secure it 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).

Plugging in the Transducer



3. Turn the portable case around so that you can access the back, and open the back zippers. 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. Make sure the spade clips are snugly attached to the terminals (see the illustration *Connectina the* Spade Clips).



4. Make sure the back battery door is zipped close, but leave the front of the bag unzipped for operation.

Stowing the Portable Transducer and Battery Charger in the Portable Bag

When you're finished using your portable fishfinder, it is important to store the transducer and battery charger, and disconnect power.

- 1. Remove the transducer from the water, wipe it dry, and stow it in the front of the portable case, under the control head.
- 2. Stow the battery charger in the portable case.
- 3. **Disconnect Power:** Unplug the power cable when not in use.
- 4. Make sure all the zippers are closed.

Maintenance

Your Humminbird Portable fishfinder is designed to provide years of trouble-free operation with virtually no maintenance. Follow the simple procedures below to

It is important to consider the following precautions when using your control head.

WARNING! Do not use a chemical glass cleaner on the screen. Chemicals in the solution may cause cracking in the lens of the unit.

• Chemicals, such as those found in bug spray and sunscreen, may cause permanent damage to the control head screen. Such damage is not

covered by the warranty. ullet Never leave your Humminbird Portable unit in a closed car or trunk — the

Use the following information to keep the control head and screen clean.

• Screen: When cleaning the LCD protective screen, use a chamois and non-

NOTE: Do not wipe the screen while dirt or grease is on the screen.

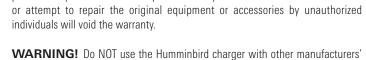
• Control Head: If the unit comes into contact with salt spray, wipe the affected surfaces with a cloth dampened in fresh water.

- If the Portable case comes into contact with salt spray, wipe the affected surfaces with a lint-free cloth, then apply a commercially available
- If the portable case bag becomes dirty, clean the bag with mild soap,

How to Remove Water from the Portable Case

needed, remove the case from the plastic base and air-dry it. Follow recommended maintenance procedures for salt spray exposure, if needed.

12 Volt sealed lead acid battery; up to 16 hours continuous operation







NOTE: For operations information, see the Operations Summary Guide and control head operations manual.

ENVIRONMENTAL COMPLIANCE STATEMENT: It is the intention of Johnson Outdoors Marine Electronics, Inc. to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

WEEE DIRECTIVE: EU Directive 2002/96/EC "Waste of Electrical and Electronic Equipment Directive (WEEE)" impacts most distributors, sellers, and manufacturers of consumer electronics in the European Union. The WEEE Directive requires the producer of

ensure that your Humminbird Portable continues to deliver top performance.

Control Head Maintenance

- high temperatures generated in hot weather can damage the electronics.

abrasive, mild cleaner. Be careful to avoid scratching the lens.

Portable Case Maintenance

- anti-corrosive treatment to all exposed electrical contacts.
- water, and a soft rag or brush and then hang it up to dry.

Open the front zipper and pull the case down to allow water to exit the case. If

Specifications







consumer electronics to take responsibility for the management of waste from their products to achieve environmentally responsible disposal during the product life cycle.