

Plastic Thru-Hull Side Imaging Transducer

Returning Your Unit for Service

Before sending your unit in for repair, please contact the factory, either by phone or by email, to obtain a Repair Authorization Number for your unit.

NOTE: Please do not return your Humminbird[®] to the store for service.

Please have your product model name and serial number available before calling the factory. If you contact the factory by e-mail, please include your product model name and serial number in the e-mail, and use Request for Repair Authorization Number for your e-mail subject header. You should include your Repair Authorization Number in all subsequent communications about your unit.

For IN-WARRANTY service, complete the following steps:

- Obtain a Repair Authorization Number from the Humminbird[®] Customer Resource Center.
- Tag product with your name, street address, phone number and your assigned Repair Authorization Number.
- Include a brief written description of the problem.
- Include a copy of your receipt (to show proof and date of purchase).
- Return product freight prepaid to Humminbird[®], using an insured carrier with delivery confirmation.

For OUT-OF-WARRANTY service, complete the following steps:

- Obtain a Repair Authorization Number from the Humminbird[®] Customer Resource Center.
- Include payment in the form of credit card number and expiration date, money order or personal check. Please do not send cash.
- Tag product with your name, street address, phone number and your assigned Repair Authorization Number.
- Include a brief written description of the problem.
- Return product freight prepaid to Humminbird[®], using an insured carrier with delivery confirmation.

Contact Humminbird®

Contact the Humminbird® Customer Resource Center in any of the following ways:

By Telephone (Monday - Friday 8:00 a.m. to 4:30 p.m. Central Standard Time):

1-800-633-1468

By e-mail (typically we respond to your e-mail within three business days)

cservice@johnsonoutdoors.com

For direct shipping, our address is:

Humminbird Service Department 678 Humminbird Lane Eufaula, AL 36027 USA

WARNING! Do not touch an active transducer during operation, as this may cause physical discomfort and may result in personal injury in the form of tissue damage. Handle the transducer only when the power to the fishfinder is off.

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.

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, birth defects and other reproductive harm.



The WEEE Directive aims to minimize the impact of end-of-life electrical and electronic equipment on human health and the environment. Therefore, any product bearing the WEEE symbol must not be included with unsorted municipal waste. Instead, it must be separately collected, treated and recycled.

For proper disposal of this equipment, please contact the Johnson Outdoors distributor or see www.humminbird.com.

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Thank You

Thank you for choosing Humminbird[®], America's #1 name in fishfinders. Humminbird[®] has built its reputation by designing and manufacturing top-quality, thoroughly reliable marine equipment. Genuine Humminbird® accessories offer the opportunity to upgrade and expand the capabilities of your Humminbird® product.

Your Humminbird® is designed for trouble-free use in even the harshest marine environment. In the unlikely event that your Humminbird® does require repairs, we offer an exclusive Service Policy - free of charge during the first year after purchase, and available at a reasonable rate after the one-year period. For complete details, see the Warranty section included in this manual.

Contact our Customer Resource Center at either 1-800-633-1468 or visit our website at www.humminbird.com.

Installation Overview

Following are instructions for the installation of this accessory. Before you start installation, we encourage you to read these instructions carefully in order to get the full benefit from your Humminbird® accessory.

If you find that any items are missing from your installation kit, call our Customer Resource Center a 1-800-633-1468 or visit our website at www.humminbird.com.

NOTE: This type of transducer installation is not recommended for trailerable boats.

NOTE: This transducer requires drilling a hole in the hull of the boat; therefore, installation should be performed by a qualified marine technician.

In addition to the hardware supplied with your transducer, you will need a drill, a small drill bit for a pilot hole, a 1 1/8" hole saw, a level, and marine-grade silicone sealant.

Installation

Perform the procedures in the following sections to install the transducer on your boat.

Testing the Transducer Prior to Installation

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

1. After connecting the transducer to the control head, 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. The bottom image should be relatively strong and there should be detailed structure on the display.

Locating the Transducer Mounting Position

Outside the boat: The best location for the transducer will be aft midship, as close to the centerline of the boat as possible. The transducer should be mounted forward of the propellers on inboard boats, and separated adequately from other transducers, strakes, rivet lines, or other protrusions. Make sure that there is nothing in front, behind, or to the side of the transducer that is closer than 12".

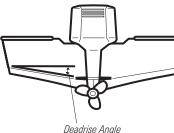
Inside the boat: There must be room to access the mounting location for installation and cable routing.

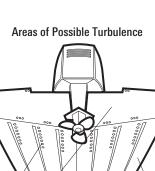
Deadrise: Another consideration is the angle of deadrise.

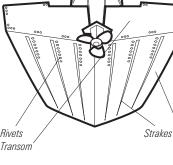
- The transducer, when mounted, should point straight down. If the selected mounting location has a hull deadrise of 8 degrees or greater, the included leveling block should be used to level the transducer housing and direct the sonar signal straight down.
- If you need to use the leveling block, make sure that the inside surface of the hull is smooth enough to seat the leveling block securely.



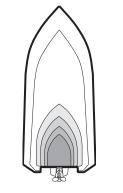




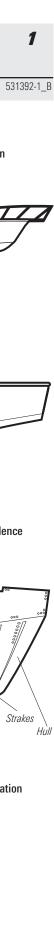




Preferred Mounting Location



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Side Imaging: The side imaging transducer has some special requirements because of its side viewing capabilities.

• The side imaging transducer must not have anything obstructing the "view" of the side looking beams, i.e. nothing can be in the line of sight of these beams (not a hull, motor, or other transducer, etc).

Note: You may need to tilt the motor up and out of the way when using the side-looking beams.

• In order for the side beams to be displayed accurately, the transducer must be mounted so that it is looking straight down in the water when the boat is in the water.

Note: Rough seas can also affect the reading of the side imaging transducer.

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. Call the Humminbird® Customer Resource Center at 1-800-633-1468 for details and pricing, or visit www.humminbird.com.

Attaching the Transducer

Before attaching your transducer, you will need to decide which type of installation to use:

- For a standard installation, where there are no major obstructions and the deadrise is less than 8 degrees, use the included leveling block (uncut), and mount it inside the hull. Drill the hole perpendicular to the hull.
- For an installation that needs to minimize the impact of a small obstruction, but where the deadrise is less than 8 degrees, use the included leveling block (uncut), and mount it outside the hull. Drill the hole perpendicular to the hull.
- For an installation where the deadrise is greater than 8 degrees, use the included leveling block, cut at the appropriate angle, to compensate for the deadrise. Drill the hole perpendicular to the waterline.
- 1. From the outside of the hull, drill a small pilot hole (smaller than the centering bit of your drill bit or hole saw), at the mounting location you selected in procedure 2.

CAUTION: Before you drill, make sure you are drilling in the correct orientation according to the installation guidelines ahove

2. Use the pilot hole (from the outside of the hull) to drill a 1 1/8" hole that is sized to fit the threaded stem of the transducer:

NOTE: For installations where the deadrise is less than 8 degrees, where you will not be cutting the leveling block, drill the hole perpendicular to the hull.

NOTE: For installations where the deadrise is greater than 8 degrees, and you will be cutting the leveling block at an angle, drill the hole perpendicular to the waterline.

- 3. Thoroughly clean and deburr the drilled hole and clean the outside of the hull.
- 4a. If the deadrise is less than 8 degrees, you will not be cutting the leveling block; install it either on the inside of the hull (standard installation) or on the outside of the hull to compensate for small obstructions.

4b. If the hull angle is greater than 8 degrees, you should cut the included leveling block and use both pieces to level the transducer. The block should be cut to match the angle of the deadrise of the hull. The leveling block included with your transducer can accommodate a maximum deadrise angle of 25 degrees.

CAUTION: Use only the leveling block included with this transducer. Do NOT use a wooden leveling block, as any swelling of the wood might cause the plastic on the transducer to shatter.

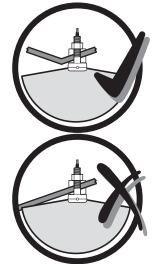
NOTE: You should cut the leveling block into two equal pieces: one which mounts outside the hull and is shaped to match the profile of the transducer, and one which mounts inside the hull and provides a level surface for the fasteners. The thinnest wall of the outside leveling block must be at least 1/8".

Side Imaging

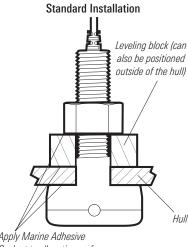
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Shows transducer close enough to center line so that the hull will not interfere with side imaging

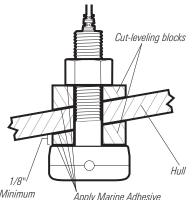


Shows transducer not close to center line, so that the hull may interfere with side imaging



Sealant to all mating surfaces

Installation for deadrise angle greater than 8°, using a cut leveling block to level transducer.



thickness Sealant to all mating surfaces

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NOTE: A separately-purchased fairing block can also be used to create a hydrodynamic waterflow around the transducer body. The design and fabrication of this block varies greatly with different hull shapes; therefore, it should be customized by a qualified marine technician.

NOTE: Replacement leveling blocks are available from Humminbird[®]. For assistance, contact the Humminbird[®] Customer Resource Center at www.humminbird.com or call 1-800-633-1468.

- 5. Feed the cable through the hole, then temporarily install the transducer to check the fit.
- 6. Apply a generous amount of marine-grade silicone sealant or slow-curing epoxy inside the drilled hole and along the mating surfaces of the transducer housing. Seal the mating edges of the leveling block as well.
- Make sure that the narrow (thin) end of the transducer is pointing forward. Insert the transducer into the drilled hole from outside the boat, then install the nut onto the threaded stem from inside the boat.

NOTE: This type of transducer is directional in nature and must be aligned with the front of the boat (the direction of travel) and parallel to the center line. Failure to align the transducer properly will result in incorrect bottom readings and incorrect fish locations. (See Illustration for orientation).

8. Hand tighten the nut ONLY until the assembly is firmly seated, then tighten NO MORE than 1/8 of a turn extra.

CAUTION: Do not overtighten the nut to avoid damage.

Remove the excess adhesive sealant from the outside of the hull to ensure smooth water flow over the transducer.

Routing the Cable

The transducer cable must be routed to the point where the control head is mounted.

NOTE: Your boat may have a pre-existing wiring channel or conduit that you can use for the transducer cable.

1. Unplug the other end of the transducer cable from the control head.

CAUTION! Do not cut or shorten the transducer cable, and try not to damage the cable insulation. Route the cable as far as possible from any VHF radio antenna cables or tachometer cables to reduce the possibility of interference. If the cable is too short, extension cables are available to extend the transducer cable up to a total of 50'. For assistance, contact the Customer Resource Center at www.humminbird.com or call 1-800-633-1468 for more information.

Route and secure the cable, avoiding areas where it may be damaged or interfere with normal boating operations.

D Connecting the Cable

Insert the transducer cable into the appropriate terminal slot. The cable connectors are labeled, and there are corresponding labels on the cable holder on the rear of the control head. The slots are keyed to prevent reversed installation, so be careful not to force the connector into the holder.

Your control head is now ready for operation.



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Maintenance

If your boat remains in the water for long periods of time, algae and other marine growth can reduce the effectiveness of the transducer. Periodically clean the face of the transducer with hot water.

If your boat remains out of the water for a long period of time, it may take some time to wet the transducer after it is returned to the water. Small air bubbles can cling to the surface of the transducer and interfere with proper operation. These bubbles will dissipate with time, or you may wipe the face of the transducer with your fingers after the transducer is in the water.

1-Year Limited Warrantv

We warrant the original retail purchaser that products made by Humminbird® have been manufactured free from defects in materials and workmanship. This warranty is effective for one year from the date of original retail purchase. Humminbird[®] products found to be defective and covered by this warranty will be replaced or repaired free of charge at Humminbird® option and returned to the customer freight prepaid. Humminbird[®] sole responsibility under this warranty is limited to the repair or replacement of a product that has been deemed defective by Humminbird[®]. Humminbird[®] is not responsible for charges connected with the removal of such product or reinstallation of replaced or repaired parts.

This warranty does not apply to a product that has been

- Improperly installed;
- Used in an installation other than that recommended in the product installation and operation instructions;
- Damaged or has failed because of an accident or abnormal operation;
- Repaired or modified by entities other than Humminbird[®]

Please retain your original receipt as a proof of the purchase date. This will be required for in-warranty service.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES ON THE PART OF HUMMINBIRD® AND WILL BE THE CUSTOMER'S EXCLUSIVE REMEDY, EXCEPT FOR ANY APPLICABLE IMPLIED WARRANTIES UNDER STATE LAW WHICH ARE HEREBY LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE. IN NO EVENT WILL HUMMINBIRD® BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY RELATING TO THE PRODUCTS.

Some states do not allow limitations on an implied warranty, or the exclusion of incidental or consequential damages, so the above exclusions may not apply to you. You may also have other rights, which vary from state to state.

Humminbird[®] Service Policy

Even though you'll probably never need to take advantage of our incredible service policy, it's good to know that we back our products this confidently. We do it because you deserve the best. We will make every effort to repair your unit within three business days from the receipt of your unit at our factory. This does not include shipping time to and from our factory. Units received on Friday are typically shipped by the following Wednesday, units received Monday are typically shipped by Thursday, etc.

All repair work is performed by factory-trained technicians to meet exacting factory specifications. Factory-serviced units go through the same rigorous testing and quality control inspections as new production units.

After the original warranty period, a standard flat rate service charge will be assessed for each repair (physical damage and missing parts are not included). Any repairs made after the original warranty will be warranted for an additional 90 days after service has been performed by our factory technicians. You can contact our Customer Resource Center or visit our website to verify the flat rate repair fee for your product (visit the Product Support section):

http://www.humminbird.com

We reserve the right to deem any product unserviceable when replacement parts are no longer available or impossible to obtain. This Service Policy is valid in the United States only. This applies only to Humminbird[®] products returned to our factory in Eufaula, Alabama. This Service Policy is subject to change without notice.

DOMESTIC (USA) CUSTOMERS:

PLEASE DO NOT RETURN THIS PRODUCT TO STORE FOR SERVICE For all technical issues please call **1-800-633-1468** Or visit www.humminbird.com, click SUPPORT Please reference product serial number and model number when contacting Humminbird®.

