

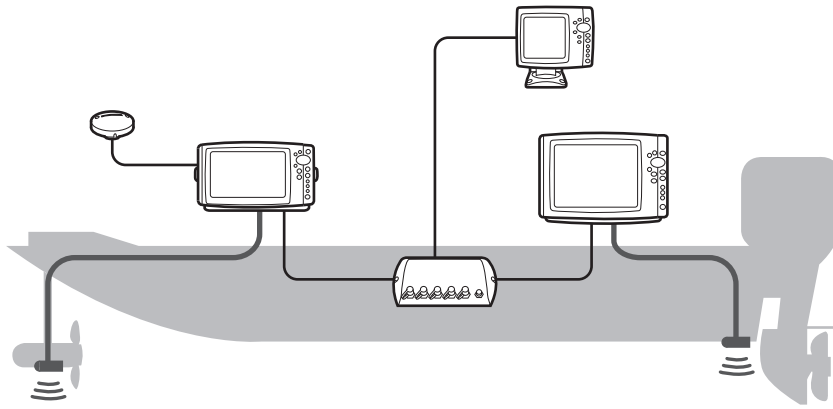
ETHERNET SWITCH Installation Guide

531951-2_A

OVERVIEW

The Ethernet Switch allows you to share sonar and navigation data from up to five Humminbird® Fishing Systems.

Example of an Ethernet Network Configuration



NOTE: This accessory can only be used with Humminbird Fishing Systems that have Ethernet capability. Contact Customer Service at humminbird.com or call **1-800-633-1468** for more information.

PREPARATION

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.

Customer Service: If you find that any items are missing from your installation kit, visit our Web site at humminbird.com or call Customer Service at **1-800-633-1468**.

Supplies: In addition to the hardware supplied with your installation kit, you will need a powered hand drill, a 9/64" drill bit, a Phillips screwdriver, a level, a pencil, and optional-purchase Humminbird Ethernet cables.

INSTALLATION

1 | Determining the Mounting Location

The Ethernet Switch is designed to mount on any flat, level surface of your boat. Prior to installation, you must first determine where to mount the Ethernet Switch.

1. Use a level to locate a suitable, flat area to mount the Ethernet Switch.
2. Place the Ethernet Switch in the desired mounting location and test the length of the Ethernet cables [separate purchase required] to ensure that each cable will reach the Ethernet Switch.

2 | Installing the Ethernet Switch

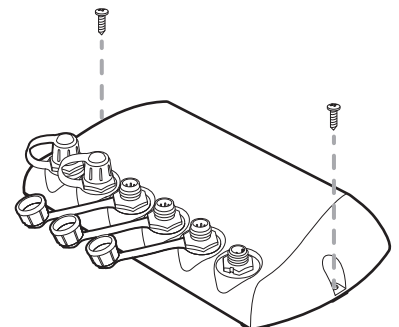
Once you have determined the mounting location, perform the following procedures to install the Ethernet Switch on your boat.

1. Set the Ethernet Switch in place on the mounting surface. Mark the two mounting screw locations with a pencil.
2. Set the Ethernet Switch aside, and drill the two mounting holes using a 9/64" drill bit.



NOTE: On fiberglass hulls, it is best to use progressively larger drill bits to reduce the chance of chipping or flaking the outer coating.

Installing the Ethernet Switch



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NOTE: If the mounting surface is thin or made of a lightweight material, you may need to add reinforcing material below the mounting surface in order to support the Ethernet Switch.

- Place the Ethernet Switch on the mounting surface and align the screw holes with the drilled mounting holes. Insert the two #8 screws [included] through the screw holes and into the drilled mounting holes, and hand-tighten using a Phillips screwdriver. **Hand-tighten only!**

NOTE: Apply marine-grade silicone caulk or sealant [separate purchase required] to both screws and drilled holes as needed to protect your boat from water damage.

3 | Connecting the Ethernet Cables

Up to five Ethernet cables [separate purchase required] can be connected to the Ethernet Switch at one time. There is no specific order in which the cables have to be connected. Refer to your Ethernet Networking manual and control head installation guide for the correct procedure for installing the cable connectors to the Fishing System.

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- Confirm that the Ethernet cable is connected to the Fishing System.
- Unscrew an Ethernet port cover from the Ethernet Switch. Plug the end of the Ethernet cable into the port. Hand-tighten the screw nut to secure the cable connection.

NOTE: The connector ports are keyed to prevent reversed installation, so be careful not to force the connector into the port.

NOTE: Make sure the port covers are tightly fastened over any unused connector ports. Connectors that are left exposed may corrode.

4 | Connecting the Power Cable

The Ethernet Switch power cable [included] can be connected to the electrical system of the boat at two locations: a fuse panel [usually located near the console] or directly to the battery.

CAUTION! Make sure that the power cable is disconnected from the Ethernet Switch at the beginning of this procedure.

NOTE: Humminbird is not responsible for over-voltage or over-current failures. The Ethernet Switch must have adequate protection through the proper selection and installation of a 3 amp fuse [separate purchase required].

- Refer to the table, **Determine Your Voltage Requirement**, to confirm the voltage requirement for your Fishing System.
- a. If a fuse terminal is available, use crimp-on type electrical connectors [not included] that match the terminal on the fuse panel. Depending on your control head model, attach the black wire to ground [-] and the red wire to positive [+] 12 VDC or 24 VDC power [see **Determine Your Voltage Requirement**]. Install a 3 amp fuse [not included] for the protection of the accessory. Humminbird is not responsible for over-voltage or over-current failures.

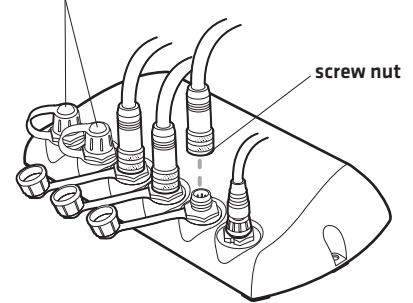
or...

- b. If you need to wire the power cable directly to a battery, obtain and install an inline fuse holder and a 3 amp fuse [not included] for the protection of the accessory. Attach the black wire to ground [-] and the red wire to positive [+]. Humminbird is not responsible for over-voltage or over-current failures.

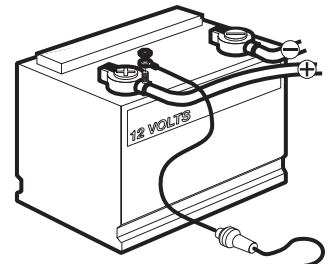
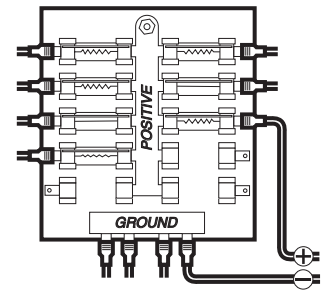
- Connect the end of the power cable to the port labeled POWER on the Ethernet Switch. The ports are keyed to prevent reversed installation, so be careful not to force the connector into the connector port. Hand-tighten the screw nut to secure the cable connection.

Connecting the Ethernet Cables to the Ethernet Switch

Keep port covers fastened over unused ports.



Connecting the Power Cable



Determine Your Voltage Requirement

Model	Voltage
700 Series™ HD	12 VDC
800 Series™ HD	12 VDC
900 Series™ HD	12 VDC
1100 Series™	12 VDC
ONIX™	12 VDC
ION™	12 or 24 VDC

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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 WARRANTY

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 repaired or replaced free of charge at Humminbird's option and returned to the customer freight prepaid. Humminbird's 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 Customer Service or visit our Web site 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 **humminbird.com**, click **SUPPORT**.

Please reference product serial number and model number when contacting Humminbird.

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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 Humminbird Customer Service.
- 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 Humminbird Customer Service.
- Include payment in the form of credit card number and expiration date, or a money order. 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

Web site humminbird.com

E-mail service@humminbird.com

Telephone 1-800-633-1468

Direct Shipping Humminbird
Service Department
678 Humminbird Lane
Eufaula, AL 36027 USA



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.



WARNING! This product contains chemicals known to the State of California to cause cancer and/or reproductive harm.

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

WEEE compliance may not be required in your location for electrical & electronic equipment (EEE), nor may it be required for EEE designed and intended as fixed or temporary installation in transportation vehicles such as automobiles, aircraft, and boats. In some European Union member states, these vehicles are considered outside of the scope of the Directive, and EEE for those applications can be considered excluded from the WEEE Directive requirement.



This symbol [WEEE wheeled bin] on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE.

Johnson Outdoors Marine Electronics, Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirements do vary within European Union member states. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased.