


## OVERVIEW

Following are instructions for the in-dash mount installation of the APEX control head. We encourage you to read this guide before starting the installation, so you may understand the installation requirements.

**Technical Support:** If you find that any items are missing from your installation kit, visit our Web site.

**Supplies:** In addition to the hardware supplied with your accessory, you will need a drill and various drill bits, a cutting tool for the dashboard material, various hand tools [including a 3/16" [4.78 mm] adjustable wrench and a #2 Phillips screwdriver for the front mount option or a 7/16" [11 mm] adjustable wrench for the rear mount option], safety glasses and dust mask, masking tape, and a towel or cloth.


 **WARNING!** Do NOT use power tools to secure the hardware. We encourage you to read the installation instructions so you may understand the installation requirements.

 **NOTE:** Product supplies and features are subject to change without notice.

## 1 | Plan the Mounting Location

Start by locating a suitable, flat area of the dashboard for mounting. Consider the following to find the best mounting location:

- **Interference:** The mounting location must provide adequate distance from electric motors or any equipment that may cause electronic interference.
- **Stability:** The mounting area should be protected from waves, shock, vibration, and water.
- **Depth:** The mounting area should have a depth of 4" [102 mm] for the front-mount installation and 5.5" [139.7 mm] for the rear-mount installation to allow space for the control head and cables.
- **Ventilation:** The area beneath the mounting surface should be well-ventilated.
- **Accessibility:** The location should be easily accessible for all cables to reach the ports on the back of the control head.
- **Multiple Control Heads:** If you plan to install more than one control head side by side, leave a minimum space of 1 7/16" [36.2 mm] between mounting holes. This will allow for 1/4" [7 mm] between control heads with the covers installed and space for the bracket under the dashboard. Take your measurement from the front, left or right side of the control head cut line. **See the template for more information.**

 **NOTE:** If a cable is too short for your application, extension cables are available. For assistance, contact Humminbird Technical Support.

## 2 | Cut the In-Dash Mounting Hole

To in-dash mount the APEX control head, start by placing the components on the surfaces where you intend to install them.

1. Review the instructions, measurements, and cutting options indicated on the In-dash Mounting Template.
2. Tape the template to the chosen in-dash mounting location.
3. Using the template, select the cutting method that is best for your boat:
  - Drill one entry hole away from the main cut line that is large enough to insert the blade of your cutting tool.

**OR**

  - Using a 7/16" drill bit, drill the 4 corner holes [inside the main cut line] as shown on the template. Use one of the corner holes as an entry hole, or drill an additional entry hole away from the main cut line.

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4. Carefully begin cutting toward the cut line, and continue cutting to the **inside of the line** around the template.
5. **Test the Mounting Hole:** Install the control head in the mounting hole to test the fit. Make adjustments to the mounting hole as needed. Remove the template when finished.
6. Thoroughly clean and deburr the mounting hole.

**3 | Install the Control Head**

Follow the instructions in this section based on whether you are going to complete a front mount or rear mount installation.

**Front Mount Installation**

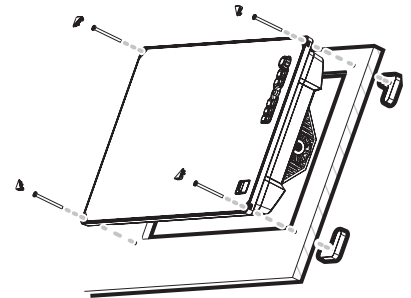
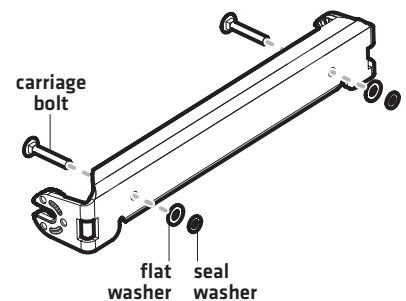
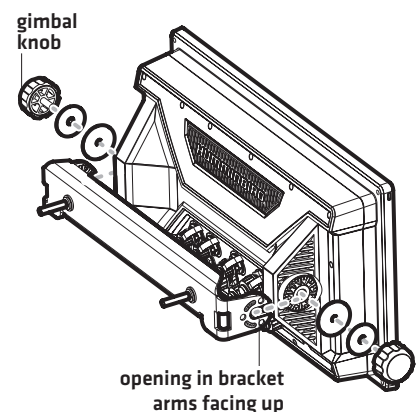
1. Insert a small tool [tip: a paper clip works well] behind each corner piece to pop out the corner cover [see the illustration *Front Mount In-Dash Installation*]. Set the corner covers aside.
2. From the front of the dashboard, with the control head screen facing out, carefully lower the control head into the mounting hole.
3. Press down lightly on the control head. Confirm the control head is seated flush against the dashboard. Make adjustments, as needed.
4. With the control head in place, use a transfer punch or pencil to mark the four corner screw holes to the dash.
5. Remove the control head from the dash and set it aside.
6. Use a 3/16" [4.78 mm] drill bit to drill the four corner-mount screw holes.
7. Insert a bolt into the drilled corner hole. Remove the tape backing from the L-bracket nut. From under the dashboard, begin to fasten the bolt to the L-bracket nut. Make sure the L-bracket nut is aligned with the dash cut-out, and lift the bolt to bring the L-bracket nut to the underside of the dash. Apply pressure to the L-bracket nut for 30 seconds to activate the adhesive tape, and then remove the bolt.
8. Repeat for the other 3 L-bracket nuts.
9. From the front of the dashboard, with the control head screen facing out, carefully lower the control head back into the mounting hole.
10. Apply a small amount of anti-seize to each bolt. Fasten a bolt into each corner hole on the control head until it contacts the bottom of the nut. **Hand-tighten only!**
11. Use a #2 Phillips screwdriver to tighten each bolt an additional 3/4 turn. **Hand-tighten only!**
12. Replace the four corner covers.

**⚠ WARNING!** Do NOT use power tools to secure the hardware.

**Rear Mount Installation**

To install the in-dash mount bracket, you will need the gimbal knobs included with your control head.

1. Place the control head on a towel or cloth, with the screen facing down, on a stable and level surface.
2. See the illustration *Installing the Bolts*. Install the carriage bolts [1/4" - 20] onto the bracket with the flat washer [1/4" x 3/4"] and seal washer [1/4" x 1/2"] in the order shown in the illustration. Hand tighten the washers fully until they are flat and secure on the bracket.
3. Line up the bracket arms with the ratchets on the side of the control head. The opening in the bracket arms should face up [away from the control head ports]. Adjust the bracket so it is parallel with the control head screen. See the illustration *Installing the Bracket*.
4. Install the gimbal knobs into each side of the control head. **Hand-tighten only!** See the illustration *Installing the Bracket*.

**Front Mount In-Dash Installation**

**Installing the Bolts**

**Installing the Bracket**


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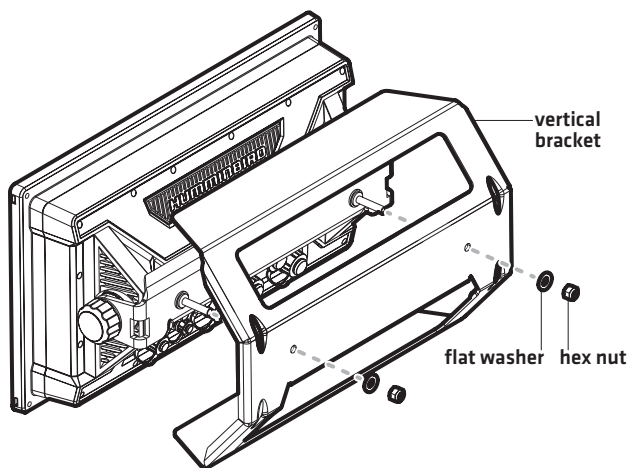
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- From the front of the dashboard, with the control head screen facing out, carefully lower the control head into the mounting hole.

**NOTE:** If the control head will not fit through the mounting hole, remove one of the gimbal knobs and angle the control head into the mounting hole. Replace the gimbal knob before proceeding to step 6.

- Press down lightly on the control head. Confirm the control head is centered and flush against the dashboard. Make adjustments, as needed.
- From under the dashboard, insert the vertical bracket holes over the bolts. Ensure the top and bottom of the vertical bracket is evenly aligned and flush against the dash. See the illustration *Installing the Vertical Bracket*.
- Install a flat washer [1/4" x 3/4"] and hex nut [1/4" - 20] onto each carriage bolt. See the illustration *Installing the Vertical Bracket*. Use a 7/16" adjustable wrench to hand-tighten the nuts until the assembly is secured. Then tighten no more than 2 additional turns. **Hand-tighten only!**

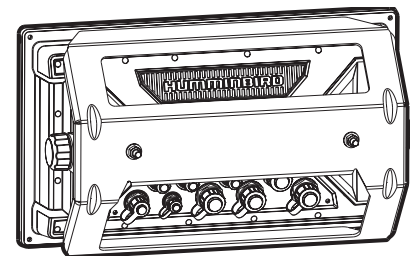
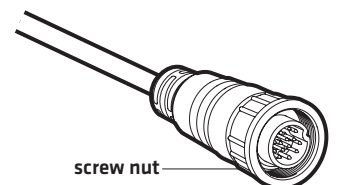
Do NOT over-tighten the hex nuts. The bracket should remain straight without bending.

**Installing the Vertical Bracket**

**4 | Connect the Cables**

In this step, you will route the cables to the control head connector panel.

**CAUTION!** Do NOT mount the cables where the connectors could be submerged in water or flooded. If cables are installed in a splash-prone area, it may be helpful to apply dielectric grease to the inside of the connectors to prevent corrosion. Dielectric grease can be purchased separately from a general hardware or automotive store.

- Route the cables to the control head through the bottom opening in the vertical bracket. See the illustration *Routing Cables to the Control Head*.
- Connect each cable to the appropriate ports on the control head. The ports are labeled, and the connectors are keyed to prevent incorrect installation.
- Hand-tighten the screw nut on each cable to secure the connection. See the illustration *Hand-Tightening the Screw Nut*. Cover any unused ports with the tethered caps to prevent potential damage.
- Your control head is ready for operation. See the Quick Start Guide to get started and download the APEX/SOLIX Operations Manual.

**Routing Cables to the Control Head**

**Hand-Tightening the Screw Nut**


## **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; or shipping charges to the factory or authorized service center [if outside the U.S.].

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, including commercial applications;
- 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.

## **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 Technical Support or visit our Web site to verify the flat rate repair fee for your product [visit the Product Support section]:

## 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 Technical Support.
- 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 Technical Support.
- 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.


 **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.

 **NOTE:** Product specifications and features are subject to change without notice.

**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 wheelee 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.