

Smartcast Operation Guide

Thank You!

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

With this purchase you should have:

- Remote Sonar Sensor □ Smartcast Control Head □ Hardware
- Smartcast Portable Base □ Smartcast Operation Guide

If any of these components are missing or are not included, please contact our Customer Resource Center at 1-334-6887-0503.

Warning: The RSS (Remote Sonar Sensor) is not intended to act as a diver's life line from 5 years old without adult supervision as the RSS may represent a choking hazard to small children.

The electronic parts in the Remote Sonar Sensor (RSS) are made to withstand use when cooling into water. However, shock from abrupt contact with rocks can damage your RSS. An instrument using this sensor is rated 1 foot and deeper. Do not lay the RSS in a wet area where not in use as this will turn on the RSS and shorten its useful life.

The battery of the RSS should not be checked during sonar operation.



Smartcast Portable Case Assembly

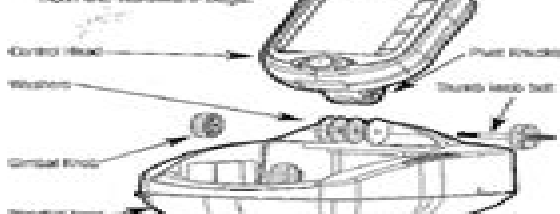
Case Assembly Overview

In the following step-by-step procedures, the following portable case assembly tasks are described, and must be performed in order:

1. Attaching the control head
2. Installing the batteries

Attaching the Control Head

1. Remove the thumb knob bolt, gimbal knob, and rubber washers from the hardware bags.

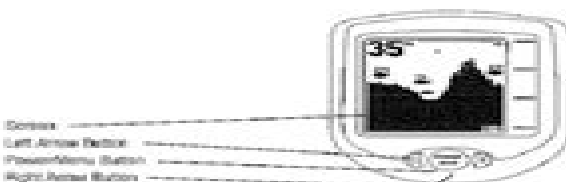


Powering ON and OFF

To turn on the display, Press and release POWER-MENU. Press and hold POWER-MENU until the display unit shuts down to power off.

The RSS has contacts that sense being in water. These contacts turn on the Sonar Transmitter/Receiver and begin transmitting the sonar information via radio to the display. The RSS automatically stops using power when pulled out of the water.

Note: Store the RSS in a dry area when not in use to conserve power. Never lay it in a wet area of a boat or on a metal surface that could accidentally turn on the RSS. Additionally, if you are in salt water, rinse with fresh water before that storage.



2. Place the rubber washers between the control head's pivot knuckle and the arm from the portable case. Make sure that the control head screen is facing the case only and away from the battery compartment.
3. Slide the pivot bolt through the side with the smaller hole (1/4") and screw the gimbal knob onto it using only 2-3 turns. The gimbal knob may have two alignment pins that will seat into holes in the case arm holding the Smartcast control head. Make sure these pins are seated and then tighten the assembly to a snug tension.

Installing the Batteries in the Smartcast

1. With a #2 Phillips screwdriver, remove both screws located on either side of the battery door.
2. Insert the 8 "AA" batteries (not included) into the case as shown on the diagram inside the battery compartment.
Note: It is recommended that only high-quality 1.5 volt alkaline batteries be used.
3. Before reattaching the battery door, make sure the silicon gasket is still in place. It should be just above the plastic, and completely in the gasket channel. Make sure that the gasket is clean of debris.

If you are not able to get an RF signal from the RSS, the display will stop updating. To get better reception from a RSS move the Smartcast base up in altitude (i.e. on top of a tackle box) for better reception. Check the buoyant balance between the RSS and your tackle; over 1/4 or tilt submerge the RSS, causing signal loss.

Operational Modes

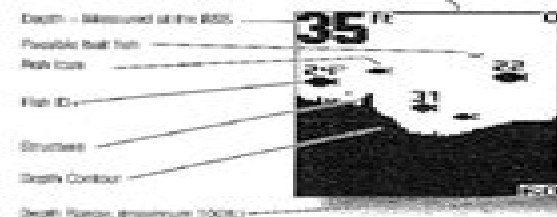
The RSS can be used in two distinct ways:

1. The RSS can be used to graph the bottom creating a sonar graph. Cast the RSS into the water beyond an area of interest. A slow and steady speed of reeling in the RSS will produce a screen detailing structure, fish and bottom detail. Wave action and rocking may have some effect, causing a wave shaped bottom pattern from the rhythmic wave action.
2. The RSS can be used as a float in a stationary location to monitor the area below, giving you a live update as fish approach your bait.

What You See On Screen

At startup an icon screen will display followed by either "Waiting for Sonar" or "Received Sonar". The Smartcast display received underwater sonar information in an easy to understand format. The top of the display corresponds to the water surface, and the bottom of the display corresponds to the selected Depth Range (not Depth Range). The display varies as the area under the RSS changes. Reeling in the RSS at a slow and steady rate will allow you to graph the bottom for structure, detail and fish. Digital readouts provide precise information for bottom contour, depth and fish locations below the RSS.

Water Surface Line



Channel

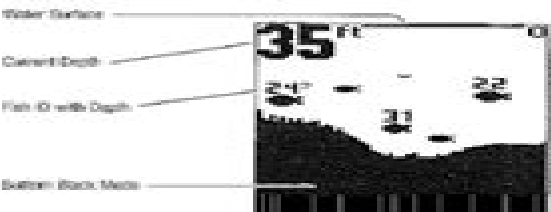
(Default to A)

Press POWER-MENU until the Channel menu appears. Select either A or B to install your RSS. See Replacement / Optional RSS Units.

Bottom Black

(Default to ON)

Press POWER-MENU until the Bottom Black menu appears. Select OFF to gain bottom hardness information by viewing second returns. For a high contrast display that is easy to view from a distance, leave the view setting on Bottom Black.



Fish Alarm

(Default to OFF) requires Fish ID ON.

Press POWER-MENU until the FISH ALARM menu appears. Select OFF for no fish alarm, or one of the following symbols to set the alarm point and turn it on.

- Alarm on big fish only.
- Alarm on big and medium fish only.
- Alarm on all fish.



Fish ID+

(Default to ON)

Press POWER-MENU until the FISH ID menu appears. Select either OFF to view "raw" sonar returns, or ON to take advantage of Smartcast's ability to identify sonar returns that are determined to be a fish. The sensitivity setting also affects the definition of sonar returns as fish (see Sensitivity). Some fish symbols will show the depth of the fish above the fish symbol. Fish Alarm does not sound if Fish ID+ is turned off.



Maintenance

Your Smartcast base is designed to provide years of trouble-free operation with virtually no maintenance. Follow these simple procedures to ensure your Smartcast continues to deliver top performance.

If the unit comes into contact with salt spray, wipe the affected surfaces with a cloth dampened in fresh water. The RSS wet surface pins must be rinsed with fresh water after exposure to salt water to prevent corrosion. Do not use a chemical glass cleaner on the lens -- this may cause cracking in the lens.

When cleaning the LCD protective lens, use a damp cloth and non-abrasive, mild cleaner. Do not wipe while dirt or grease is on the lens. Be careful to avoid scratching the lens.

If your RF Remote remains out of the water for a long period of time, it may take some time to seal it when returned to the water. Small air bubbles can cling to the surface of the RSS and interfere with proper operation. These bubbles dissipate with time, or you can wipe the face of the RF Remote with a gathered wet cloth.

Never leave the unit in a closet or on a shelf - the extremely high temperatures generated in hot weather can damage the electronics.

Troubleshooting

Do not attempt to repair the Smartcast or RSS yourself. There are no user serviceable parts inside, and special tools and techniques are needed for assembly to ensure the waterproof integrity of the housings. Repairs other than the replacement of a battery should be conducted by Humminbird.

Hummingbird 300 Tx User Manual

United States. Coast Guard



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α b

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web it is to be understood that the slope deflection method is a displacement method or stiffness method unlike the force method or the method of consistent deformation discussed earlier here the unknown displacements are found first solving the structure's equilibrium equations

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