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Garmin 010-11939-20

Garmin B175M Bronze Thru-Hull Transducer User Manual

Model: 010-11939-20

Introduction

The Garmin B175M is a high-performance bronze thru-hull transducer designed for marine applications. It provides accurate depth and temperature readings, utilizing CHIRP Mid-band frequencies (85-135 kHz) to deliver excellent target separation and detail. This 1kW transducer is suitable for a wide range of fishing and navigation needs, connecting to compatible Garmin sonar modules and chartplotters via an 8-pin plug.



Figure 1: An image showing the Garmin B175M Bronze Thru-Hull Transducer. It is a bronze-colored cylindrical device with a flat, dark face on one end and a threaded shaft on the other, designed for mounting through a boat's hull.

Setup and Installation

Proper installation of the B175M transducer is crucial for optimal performance. Due to the nature of thru-hull installation, it is highly recommended that this procedure be performed by a qualified marine technician.

Pre-Installation Considerations:

- **Hull Material:** Ensure your hull material is compatible with bronze transducers.
- **Location:** Select a location on the hull that is free from turbulence, air bubbles, and obstructions. The location should be as flat as possible and away from propellers, keels, and other transducers.
- **Tools and Materials:** Gather necessary tools including a drill, hole saw (appropriate size for the transducer shaft), sealant, and cleaning supplies.

Installation Steps (Summary - Consult Full Manual for Detail):

1. **Drill Pilot Hole:** Carefully drill a pilot hole from inside the hull.
2. **Cut Main Hole:** Use a hole saw to cut the main transducer mounting hole.
3. **Prepare Surface:** Clean and prepare the hull surface around the hole, ensuring it is dry and free of debris.
4. **Apply Sealant:** Apply marine-grade sealant generously to the transducer flange and shaft.
5. **Insert Transducer:** Insert the transducer through the hull from the outside.
6. **Secure:** From inside the hull, secure the transducer with the provided nut and washer, ensuring a watertight seal.
7. **Connect Cable:** Route the 39-foot cable to your compatible Garmin display unit and connect the 8-pin plug securely.

Refer to the detailed installation guide provided with your product for specific hull preparation and sealing instructions.

Operating Instructions

The Garmin B175M transducer operates by sending and receiving sound waves to determine depth and detect underwater objects. It is designed to work seamlessly with Garmin CHIRP-enabled sonar systems.

Basic Operation:

- **Power On:** Ensure your Garmin display unit is powered on.
- **Sonar Mode:** Select the sonar or fishfinder mode on your display unit.
- **Frequency Selection:** The B175M operates in the Mid-band CHIRP range (85-135 kHz). Your display unit should automatically detect and utilize this frequency range. Adjust settings on your display unit for optimal performance, such as gain, range, and scroll speed.
- **Temperature Display:** The integrated temperature sensor will provide water temperature readings to your display unit.

For advanced sonar settings and features, consult the user manual for your specific Garmin chartplotter or fishfinder unit.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your B175M transducer.

- **Cleaning the Transducer Face:** Periodically inspect the transducer face for marine growth, dirt, or other obstructions. Clean gently with a soft cloth and mild soap and water. Avoid abrasive cleaners or tools that could scratch the surface.
- **Cable Inspection:** Check the transducer cable for any signs of wear, cuts, or kinks. Ensure the 8-pin connector is clean and free of corrosion.
- **Hull Seal:** Regularly inspect the thru-hull seal for any signs of leaks or degradation. Address any issues promptly to prevent water intrusion.
- **Winterization:** If storing your boat in freezing temperatures, ensure the transducer is not exposed to ice formation, which could damage the unit.

Troubleshooting

If you experience issues with your Garmin B175M transducer, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Depth Reading	Loose cable connection, transducer obstructed, incorrect sonar settings, faulty unit.	Ensure the 8-pin cable is securely connected to the display unit. Inspect the transducer face for marine growth or damage and clean if necessary. Check sonar settings on your display unit (e.g., transducer type, frequency range). Test with another compatible transducer if available, or contact Garmin support.
Inaccurate Depth/Fish Readings	Transducer location issues, air bubbles, electrical interference, incorrect gain/range settings.	Verify transducer is in clean water flow, free from turbulence. Adjust gain and range settings on your display unit. Check for sources of electrical interference (e.g., engine, other electronics). Ensure the transducer is properly angled (if applicable) and securely mounted.
No Temperature Reading	Sensor damage, cable issue, display unit setting.	Check cable connection. Ensure temperature display is enabled on your Garmin unit. If problem persists, the sensor may be damaged; contact support.

If these steps do not resolve the issue, contact Garmin customer support for further assistance.

Specifications

Feature	Detail
Model Number	010-11939-20
Transducer Type	Thru-Hull
Material	Bronze
Frequency	CHIRP Mid-band (85-135 kHz)
Power (RMS)	1 kW (1000 Watts)
Beam Angle	6-10 degrees
Cable Length	39 feet
Connector	8-pin
Sensors	Depth, Temperature
Product Dimensions	12 x 10 x 8 inches
Weight	11.5 Pounds

Warranty and Support

Warranty Information:

Garmin products are typically covered by a limited warranty. Specific warranty terms and conditions, including duration and coverage details, are provided with the product packaging or can be found on the official Garmin website. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Garmin customer support. You can find contact information, FAQs, and additional resources on the official Garmin support website:
Visit Garmin Support Website
When contacting support, please have your product model number (010-11939-20) and serial number (if applicable) ready.

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