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Garmin 010-02867-01

Garmin GT12M-THF Bronze Thru-Hull Transducer Instruction Manual

Model: 010-02867-01

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Garmin GT12M-THF Bronze Thru-Hull Transducer. This 350-watt midband CHIRP transducer is designed to provide clear fish arches, structure, and bottom depth returns on compatible chartplotter displays, optimized for midsize fishing and cruising boats.

The GT12M-THF transducer offers a flush-mounted design to reduce drag and enhance sonar performance. It features a broad frequency range and auto-identification technology for simplified setup.

2. Components Included

- GT12M-THF Transducer
- Jam Nut
- Washer
- Documentation

3. Setup and Installation

The GT12M-THF transducer is designed for thru-hull installation, ensuring minimal drag and optimal beam orientation for clear sonar returns. Proper installation is crucial for performance.

3.1 Thru-Hull Mounting

The durable bronze housing and stem facilitate straightforward thru-hull flush mounting. The transducer is available in various tilt versions to accommodate deadrise angles from 0 to 20 degrees without requiring a fairing block. It is compatible with a wide range of boat hull materials, including fiberglass, composite, and wood.



Figure 1: Garmin GT12M-THF Bronze Thru-Hull Transducer. This image shows the bronze-colored cylindrical transducer with a black sonar element at one end and a cable extending from the other, designed for flush mounting through a boat's hull.

3.2 Electrical Connection

The transducer features an 8-pin connector for connection to a compatible Garmin chartplotter. Utilize the provided jam nut and washer to secure the transducer during installation.

3.3 Auto-ID Technology

The transducer incorporates Garmin's auto-identification technology, enabling simple plug-and-play operation. The sonar system will automatically configure itself to the transducer being used, simplifying the setup process.

4. Operating Instructions

Once installed and connected, the GT12M-THF transducer provides advanced sonar capabilities for effective fish finding and bottom tracking.

4.1 Midband CHIRP Traditional Sonar

This transducer utilizes high-definition midband CHIRP sonar, which clearly defines fish targets and underwater structures. It offers excellent sonar sensitivity, low noise, high resolution, and good separation of targets, making it easier to distinguish fish from structure on your display.

4.2 Frequency Range and Depth Performance

The GT12M-THF operates within a medium frequency range, pulsing from 85–165 kHz. This broad frequency range provides a wide coverage area, crisp fish arches, and accurate depth readings. It can achieve maximum depth performance of up to 800 feet (244 meters) in saltwater and 1,200 feet (366 meters) in freshwater.

4.3 Beamwidths

The transducer operates with beamwidths ranging from 16 to 24 degrees, allowing for effective scanning and target identification.

4.4 Water Temperature Sensing

The transducer includes fast-response water temperature sensing, providing real-time temperature data to your compatible chartplotter.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your transducer.

- **Cleaning:** Periodically inspect the transducer face for marine growth, dirt, or other obstructions. Clean with a soft cloth and mild soap and water. Avoid abrasive cleaners or tools that could scratch the sonar element.
- **Inspection:** Check the cable for any signs of wear, cuts, or damage. Ensure the thru-hull mounting is secure and free from leaks.
- **Winterization:** If storing your boat in freezing temperatures, ensure the transducer is not exposed to ice, which can cause damage.

6. Troubleshooting

If you experience issues with your GT12M-THF transducer, consider the following common troubleshooting steps:

- **No Sonar Returns:**
  - Ensure the transducer is correctly connected to the chartplotter.
  - Verify that the chartplotter's sonar function is enabled and configured for the correct transducer type.
  - Check for power supply to the chartplotter.
- **Poor or Intermittent Returns:**
  - Inspect the transducer face for fouling (marine growth, air bubbles, oil film). Clean as necessary.
  - Ensure the transducer is properly submerged and not experiencing cavitation (air bubbles passing over the transducer face, often caused by hull design or speed).
  - Check for electrical interference from other onboard electronics.
  - Verify the chartplotter's settings (e.g., gain, frequency) are appropriate for current conditions.
- **Incorrect Depth Readings:**
  - Ensure the transducer is installed at the correct angle for your hull's deadrise.
  - Calibrate the depth offset on your chartplotter if necessary.

For persistent issues, consult your chartplotter's manual or contact Garmin support.

7. Specifications

Feature	Specification
Brand	Garmin
Model Name	GT12M
Part Number	010-02867-01
Power Source	Direct DC Power
Transducer Type	Thru-Hull, Midband CHIRP Traditional Sonar
Power (RMS)	350 W
Frequency Range	85-165 kHz
Beamwidths	16-24 degrees
Maximum Measuring Depth	1,200 feet (freshwater), 800 feet (saltwater)
Mounting Type	Flush Mount
Deadrise Compatibility	0, 12, or 20 degrees (without fairing block)
Housing Material	Bronze
Item Weight	1 Pound
UPC	753759319908

8. Warranty and Support

Garmin products are built to high-quality standards. For information regarding the warranty policy for your GT12M-THF transducer, please refer to the documentation included in the product packaging or visit the official Garmin website.

For technical support, product registration, or to find service centers, please visit theGarmin Support Center or contact Garmin customer service directly.

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