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Lewmar TT 185 4.0kW 12V Gen 2 Bow Thruster Instruction Manual

Model: 590008LEW

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Lewmar TT 185 4.0kW 12V Gen 2 Bow Thruster. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

Safety Warning:

- Always disconnect power before performing any maintenance or inspection.
- Ensure all electrical connections are secure and properly insulated.
- Installation should be performed by qualified personnel to ensure compliance with marine standards and safety regulations.

2. PRODUCT OVERVIEW

The Lewmar TT 185 4.0kW 12V Gen 2 Bow Thruster is designed to provide reliable lateral thrust for improved vessel maneuverability. It features a robust design with a high-performance 5-blade propeller.



Image 1: Lewmar TT 185 4.0kW 12V Gen 2 Bow Thruster. This image displays the complete thruster unit, including the motor housing, control unit, and the tunnel with the 5-blade propeller visible at one end. The Lewmar brand name is visible on the white motor cover.

3. SETUP AND INSTALLATION

The Lewmar TT 185 Gen 2 thruster is designed for straightforward installation. It features a system that eliminates the need for a separate reservoir, reducing potential leak points and simplifying maintenance.

3.1 Pre-Installation Checks

- Verify that the vessel's power supply is 12V DC and can deliver the required current for a 4.0kW thruster.
- Ensure the chosen mounting location in the bow provides sufficient space for the thruster unit and allows for proper tunnel installation.

- Confirm that all components listed in the packaging are present.

3.2 Mounting the Thruster

1. Install the thruster tunnel according to the vessel's specific requirements and marine engineering best practices.
2. Secure the thruster motor and gear leg assembly to the tunnel using appropriate fasteners and sealing compounds to ensure a watertight fit.
3. Connect the electrical cables to the motor terminals, ensuring correct polarity and secure connections. Refer to the wiring diagram provided with the product for detailed instructions.

Note: Professional installation is highly recommended for marine thruster systems to ensure safety and optimal performance.

4. OPERATING INSTRUCTIONS

The Lewmar TT 185 thruster provides powerful and responsive thrust for precise vessel control.

4.1 Basic Operation

1. Ensure the vessel's main power is on and the thruster's circuit breaker is engaged.
2. Activate the thruster control panel (joystick or push-button, sold separately).
3. Apply thrust in the desired direction. The high-performance 5-blade propeller is designed to give equal thrust in both directions, providing consistent control.
4. Release the control to stop thrust.

4.2 Operational Guidelines

- Use short bursts of thrust rather than continuous operation to prevent overheating and conserve battery power.
- Avoid operating the thruster in shallow water or areas with debris that could foul the propeller.
- Always be aware of your surroundings and other vessels when maneuvering.

5. MAINTENANCE

The Lewmar TT 185 Gen 2 thruster is designed for minimal maintenance, featuring a sealed system with no reservoir to install, which also means no leaks and reduced maintenance requirements.

5.1 Regular Checks

- **Propeller Inspection:** Periodically inspect the 5-blade propeller for any damage, fouling (e.g., marine growth, fishing line), or obstructions. The spline-driven propeller design eliminates the need for a drive pin, simplifying inspection.
- **Seal Integrity:** Check the high integrity seal for any signs of leakage or wear. While designed for durability, regular visual inspection is recommended.
- **Electrical Connections:** Ensure all electrical connections are clean, tight, and free from corrosion. Apply a suitable marine-grade dielectric grease to terminals if necessary.
- **Motor Housing:** Keep the motor housing clean and free from excessive dirt or salt residue.

5.2 Winterization

For vessels stored in freezing conditions, ensure the thruster tunnel is drained and free of water to prevent

ice damage.

6. TROUBLESHOOTING

This section outlines common issues and their potential solutions. For problems not listed here, contact Lewmar customer support or a qualified marine technician.

Problem	Possible Cause	Solution
Thruster does not operate	No power to unit; Blown fuse/tripped breaker; Faulty control panel	Check battery connections; Inspect and replace fuse/reset breaker; Test control panel functionality.
Reduced thrust	Fouled propeller; Low battery voltage; Motor overheating	Inspect and clear propeller; Check battery charge and connections; Allow motor to cool down.
Unusual noise or vibration	Damaged propeller; Loose mounting; Debris in tunnel	Inspect propeller for damage; Check all mounting bolts; Clear any debris from the tunnel.

7. SPECIFICATIONS

Feature	Detail
Model	TT 185 4.0kW 12V Gen 2
Item Model Number	590008LEW
Brand	Lewmar
Voltage	12 Volts
Power	4.0 kW
Propeller Type	5-blade, Spline Driven
Seal Type	High integrity seal
Reservoir Requirement	None (No reservoir to install)
Item Weight	1 pounds
Package Dimensions	9 x 5.75 x 0.38 inches
UPC	743683033339

Note: Specifications are subject to change without notice. Always refer to the product packaging or official Lewmar documentation for the most current information.

8. WARRANTY AND SUPPORT

Lewmar products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or

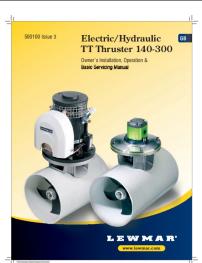
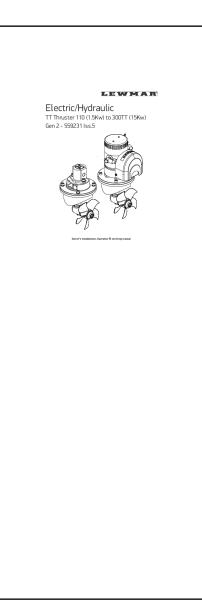
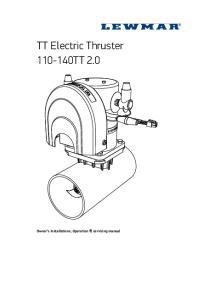
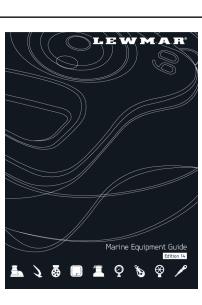
visit the official Lewmar website.

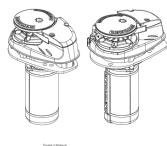
For technical assistance, spare parts, or warranty claims, please contact Lewmar customer support or an authorized Lewmar service center. When contacting support, please have your product model number (590008LEW) and purchase details readily available.

You can find more information and contact details on the [Lewmar Store on Amazon](#).

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Related Documents - 590008LEW

	<p>Lewmar Electric/Hydraulic TT Thruster 140-300 Installation, Operation, and Servicing Manual Comprehensive manual for Lewmar's Electric/Hydraulic TT Thruster 140-300 series, covering installation, operation, maintenance, and troubleshooting for boat owners and marine professionals.</p>
	<p>Lewmar Electric/Hydraulic TT Thruster Installation, Operation, and Servicing Manual Comprehensive guide for installing, operating, and servicing Lewmar Electric/Hydraulic TT Thrusters, covering models from 110TT (1.5kW) to 300TT (15kW) Gen 2. Includes safety, installation, wiring, maintenance, and troubleshooting.</p>
	<p>Lewmar TT Electric Thruster 110-140TT 2.0 Installation and Operation Manual Comprehensive guide for installing, operating, and servicing the Lewmar TT Electric Thruster models 110TT and 140TT 2.0. Covers safety precautions, installation steps, electrical wiring, troubleshooting, and specifications.</p>
	<p>Lewmar Marine Equipment Guide Edition 14 Comprehensive guide to Lewmar marine equipment, featuring windlasses, anchors, thrusters, winches, hatches, portlights, hydraulics, and steering systems. Explore product specifications, selection guides, and installation details for boaters.</p>

 <p>LEWMAR Lewmar V700 Vertical Windlass 65001022 Issue 4 Owner's Manual</p>	<p><u>Lewmar V700 Vertical Windlass Owner's Manual</u></p> <p>Comprehensive owner's manual for the Lewmar V700 Vertical Windlass, covering installation, operation, safety, specifications, and troubleshooting. Learn how to properly use and maintain your Lewmar windlass for optimal performance and safety at sea.</p>
 <p>LEWMAR HX1 Horizontal Windlass Product manual - 65140050 Owner's Installation, Operation & Servicing Manual</p>	<p><u>Lewmar HX1 Horizontal Windlass: Installation, Operation & Servicing Manual</u></p> <p>Comprehensive guide for the Lewmar HX1 Horizontal Windlass (Model 65140050), detailing installation, electrical wiring, operation procedures, servicing, troubleshooting, and warranty information.</p>