

Minn Kota PowerDrive

Minn Kota PowerDrive Bow-Mount Electric Trolling Motor with GPS

MODEL: POWERDRIVE (55 LB. THRUST, 54 IN. SHAFT, FRESHWATER)

Introduction

This manual provides essential instructions for the safe and effective use of your Minn Kota PowerDrive Bow-Mount Electric Trolling Motor. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your product.

The PowerDrive trolling motor is designed for freshwater use, featuring a 55 lb. thrust and a 54-inch shaft. It includes an Advanced GPS Trolling System for precise boat positioning and control.

Product Features Overview

- **Deploy-Assist Lever:** Facilitates easy deployment and stowing of the motor.
- **Advanced GPS Trolling System:** Utilizes GPS for Spot-Lock, speed control, and steering via a micro remote.
- **Push-to-Test Battery Meter:** Provides an instant battery charge reading.
- **Digital Maximizer:** Optimizes power usage for extended battery life.
- **Power Prop:** Designed for efficient propulsion in various fishing conditions.
- **Indestructible Composite Shaft:** Guaranteed for life by Minn Kota.
- **Cool, Quiet Power:** Engineered for extended motor life and silent operation.

Setup and Installation

Proper installation is crucial for the performance and safety of your trolling motor. Refer to the detailed installation guide included in your product packaging for specific mounting instructions.

1. **Mounting the Motor:** Securely attach the bow-mount bracket to the bow of your boat. Ensure the mounting surface is flat and strong enough to support the motor's weight and operational forces. Use appropriate marine-grade fasteners.
2. **Electrical Connection:** Connect the motor's power cables directly to a 12-volt deep cycle marine battery. Observe correct polarity (red to positive, black to negative). Ensure all connections are tight and corrosion-free. It is recommended to install an appropriate circuit breaker.
3. **Propeller Installation:** Attach the Power Propeller to the motor shaft following the instructions

provided with the propeller. Ensure it is securely fastened.

4. **Initial Deployment Check:** After installation, carefully deploy and stow the motor using the Deploy-Assist Lever to ensure smooth operation and proper clearance.





Figure 1: Overall view of the Minn Kota PowerDrive Trolling Motor with its micro remote.



Figure 2: Detail of the bow-mount bracket for secure attachment to the boat.

Operating Instructions

- Deploying and Stowing:** To deploy the motor, depress the Deploy-Assist Lever and guide the motor into the water. To stow, lift the motor using the lever until it locks securely in the stowed position.
- Using the Micro Remote:** The included micro remote controls steering, speed, and GPS functions. Familiarize yourself with the button layout for intuitive operation.
- Advanced GPS Trolling System:**
 - Spot-Lock:** Press the Spot-Lock button on the remote to hold your boat's position automatically.
 - Speed and Steering:** Use the directional and speed buttons on the remote to navigate and adjust motor thrust.
 - Navigation:** The system allows for advanced navigation features, including recording and following paths. Refer to the full GPS system manual for detailed instructions.

4. **Battery Meter:** Press the "Test" button on the motor's head unit to view the current battery charge level via LED indicators.



Figure 3: Close-up of the PowerDrive head unit and the micro remote for controlling motor functions.



Figure 4: The Push-to-Test Battery Meter on the motor's base, showing LED indicators for charge status.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your trolling motor.

- **After Each Use:** Rinse the motor with fresh water, especially after use in brackish or saltwater environments (though this model is specified for freshwater, rinsing is good practice). Wipe down all surfaces.
- **Propeller Inspection:** Regularly check the propeller for weeds, fishing line, or damage. Remove any obstructions and inspect for nicks or cracks. Replace if significantly damaged.

- **Electrical Connections:** Periodically inspect all electrical connections for corrosion or looseness. Clean and tighten as necessary. Apply dielectric grease to prevent corrosion.
- **Shaft Care:** The composite shaft is designed to be indestructible. However, inspect it for any signs of wear or damage. Keep it clean.
- **Storage:** When not in use, store the motor in a dry, protected area. Disconnect the battery for long-term storage.

Troubleshooting

This section addresses common issues you might encounter. For more complex problems, consult a qualified service technician or Minn Kota customer support.

- **Motor Not Responding:**
 - Check battery connections for tightness and corrosion.
 - Verify battery charge level using the Push-to-Test Battery Meter.
 - Ensure the circuit breaker has not tripped.
- **GPS Functions Not Working:**
 - Ensure the motor has a clear view of the sky for GPS signal acquisition.
 - Check if the micro remote is paired correctly with the motor.
- **Inaccurate Battery Gauge with LiFePO4 Batteries:** If using a Lithium Iron Phosphate (LiFePO4) battery, the built-in battery gauge may consistently read full until the battery's voltage drops sharply at the end of its charge cycle. It is recommended to monitor LiFePO4 battery charge levels using a dedicated LiFePO4 compatible battery monitor for accurate readings.

Specifications

Feature	Detail
Brand	Minn Kota
Model	PowerDrive
Thrust	55 Lb.
Shaft Length	54 inches
Voltage	12 Volts
Mounting Type	Bow Mount
Engine Type	Electric
Operation Mode	Automatic
Recommended Use	Freshwater
Material	Aluminum
Item Weight	44 pounds
Model Number	1358451

UPC	029402050970
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Warranty and Support

Your Minn Kota PowerDrive trolling motor comes with a manufacturer's warranty. The composite shaft is specifically guaranteed for life. For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the official Minn Kota website.

For technical assistance, troubleshooting, or to locate authorized service centers, please contact Minn Kota customer support. You can also visit the [Minn Kota Store on Amazon](#) for additional product information and resources.