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## Cloud Mountain Brushed 86-24V

# Cloud Mountain Trolling Motor Instruction Manual

Model: Brushed 86-24V
Brand: Cloud Mountain

## 1. Product Overview

The Cloud Mountain Trolling Motor is an electric outboard designed for fishing boats, kayaks, inflatable boats, dinghies, and tenders. It is suitable for both freshwater and saltwater environments. This model features a 24V battery compatibility, a 10-point LED power indicator, and an ergonomic adjustable handle for precise control.

- **24V Battery Compatibility & Power Monitoring:** Compatible with 24V batteries and features a 10-point LED battery indicator to monitor power levels and protect battery lifespan. (Battery not included)
- **Durable Construction:** Reinforced nylon bracket ensures exceptional strength and wear resistance. The all-aluminum head increases motor lifespan and reliability for long-term use.
- **Ergonomic Handle for Control:** Offers 8 speeds (5 forward, 3 reverse) and a 6-inch telescoping adjustable handle, providing easy control and smooth operation in various conditions.
- **30-Inch Fiberglass Composite Shaft:** Features a 30-inch shaft with high tensile strength and corrosion resistance, ideal for precise depth control in both freshwater and saltwater environments.
- **Post-Saltwater Use Cleaning:** Stainless steel hardware ensures optimal performance in saltwater. After use in saltwater, clean thoroughly to prevent corrosion and maintain product longevity.




Image 1.1: Overview of the Cloud Mountain Trolling Motor, showing the main unit, propeller, and the 10-point LED power indicator.

## 2. Components and Diagram

Familiarize yourself with the various components of your trolling motor for proper assembly and operation.

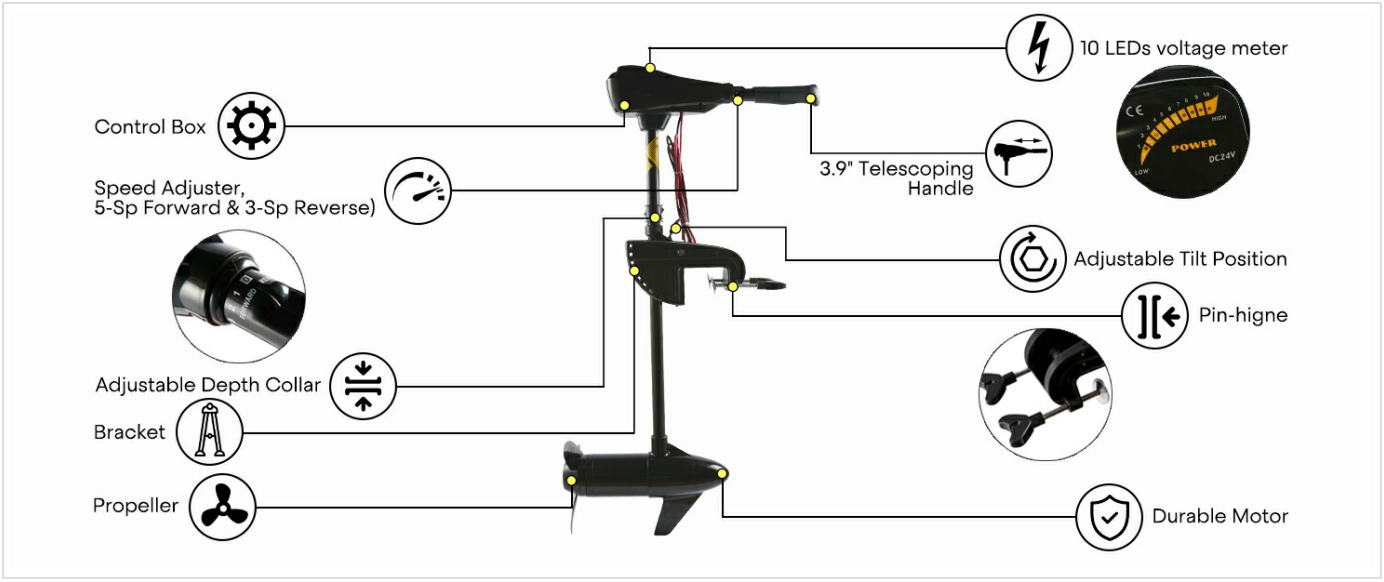



Image 2.1: Detailed diagram illustrating the main components of the trolling motor, including the control box, speed adjuster, telescoping handle, LED voltage meter, adjustable tilt position, pin-hinge, adjustable depth collar, bracket, propeller, and durable motor housing.




Image 2.2: Dimensional drawing of the trolling motor, showing key measurements such as overall height (42.2 inches), handle length (17.7 inches), shaft length (30 inches), and propeller dimensions.

## 3. Setup and Installation

Follow these steps to properly install your trolling motor on your boat.

1. **Insert Boat Board into Bracket:** Position the boat's transom or mounting board into the motor's bracket.
2. **Secure the Motor:** Strengthen the two screws on the bracket to firmly fix the motor to the boat board. Ensure a secure fit to

prevent movement during operation.

3. **Adjust Motor Angle:** Press the spring release to adjust the angle of the motor. You can turn the shaft around to set the desired angle or to take it out of the water. Release the spring when the adjustment is finished; the motor will stay in the fixed direction.
4. **Adjust Shaft Length:** Loosen the screw on the shaft collar to adjust the height of the motor's submerged part. This allows you to set the appropriate depth for the propeller.
5. **Caution:** To prevent accidental damage to the fiberglass shaft, do not tighten the shaft length adjustment screw too tightly.

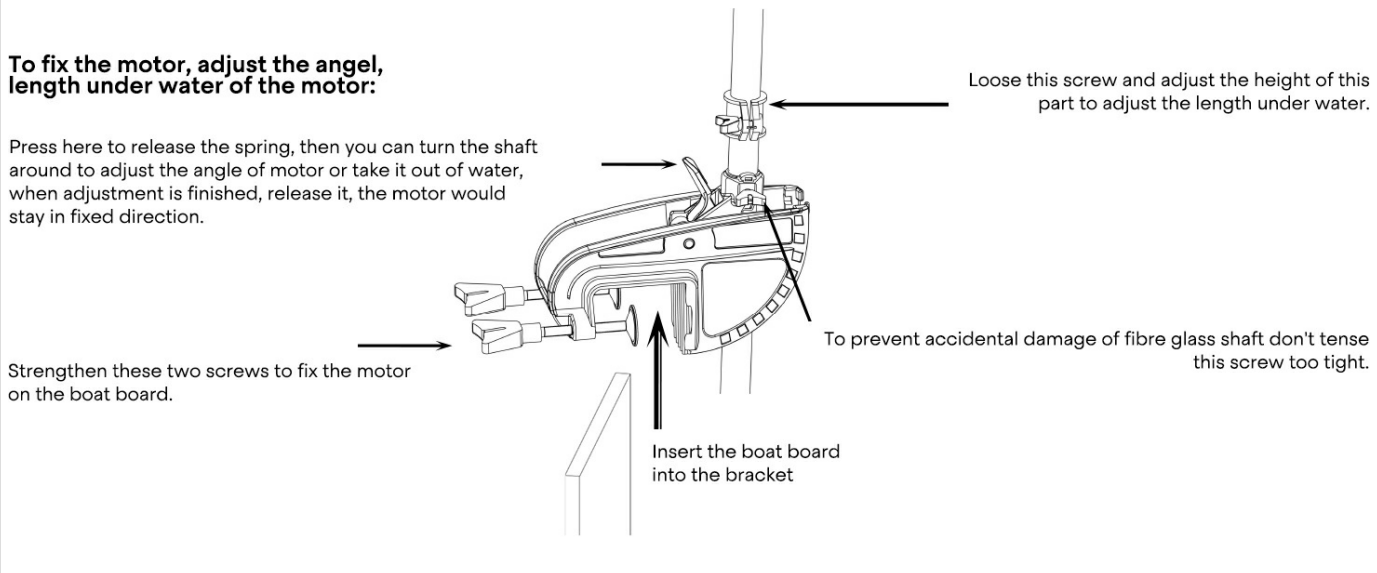



Image 3.1: Visual guide for installing the trolling motor, showing how to insert the boat board into the bracket, tighten the fixing screws, adjust the motor angle, and set the shaft length.

## 4. Battery Connection

Proper battery connection is crucial for the safe and efficient operation of your trolling motor. This model requires a 24V power source.

- **For 24V Systems (Brushed 86LBS / Brushless 150LBS):**
  - **Using Lead-Acid Batteries:** Connect two 12V lead-acid batteries in series to achieve 24V. Connect the positive terminal of the first battery to the negative terminal of the second battery. The remaining positive and negative terminals will provide 24V.
  - **Using Lithium-Ion Batteries:** Only one 24V lithium-ion battery is needed to provide 24V.
- **Incorrect Connection (Parallel):** Connecting two 12V lead-acid batteries in parallel will only provide 12V, which is insufficient for this 24V motor and may cause damage or malfunction.
- **For 12V Systems (Brushed 26/50/55/60LBS / Brushless 90LBS):** Only one 12V lead-acid battery is needed to provide 12V.

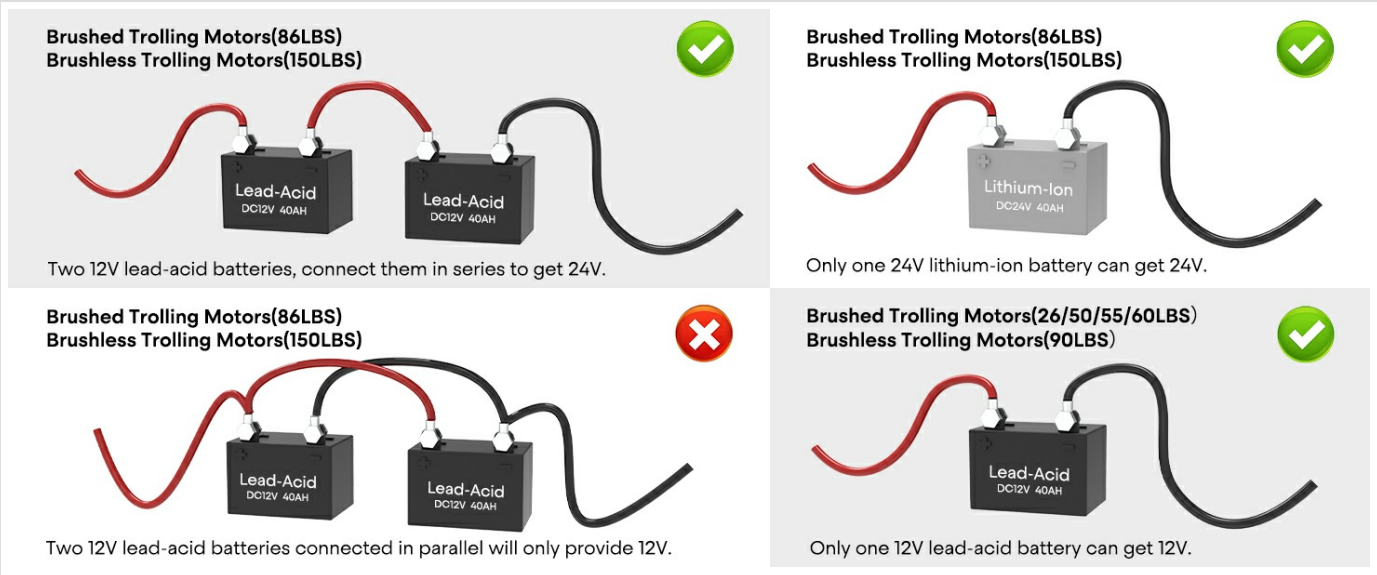



Image 4.1: Diagrams illustrating correct and incorrect battery wiring configurations for 24V and 12V trolling motors, showing series connection for 24V lead-acid batteries and single battery connection for 24V lithium-ion or 12V lead-acid batteries.

## 5. Operation

Operating your Cloud Mountain Trolling Motor is straightforward. Follow these guidelines for optimal performance.

- **Power On/Off:** Ensure the motor is properly connected to the battery. The motor is activated by adjusting the speed control.
- **Speed Control:** The motor features 8 speeds: 5 forward speeds and 3 reverse speeds. Use the speed adjuster on the control box to select your desired speed. The telescoping handle provides ergonomic control for steering.
- **Battery Indicator:** The 10-point LED lighted power indicator on the motor head displays the remaining battery capacity. Monitor this indicator to prevent deep discharge and protect your battery's lifespan. Recharge the battery when the indicator shows low capacity.
- **Propeller Operation:** The 3-blade machete propeller is designed to prevent water weed entanglement.




Image 5.1: A person operating the trolling motor from a boat, demonstrating typical usage during fishing.




Image 5.2: Close-up view of the 3-blade propeller, designed to minimize entanglement with aquatic vegetation.

## 6. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your trolling motor.

- **Post-Saltwater Use Cleaning:** After each use in saltwater, thoroughly rinse the entire motor, especially the propeller and shaft, with fresh water. This prevents corrosion of the stainless steel hardware and other components.
- **Storage:** Store the trolling motor indoors in a dry environment when not in use. Avoid prolonged exposure to rain or harsh weather conditions, as this may damage the motor.
- **Battery Care:** Always ensure your battery is charged according to its manufacturer's instructions. Do not allow the battery to fully discharge, as this can reduce its lifespan.
- **Propeller Inspection:** Regularly inspect the propeller for any damage, nicks, or entanglement with fishing lines or weeds. Clear any debris to maintain efficiency.

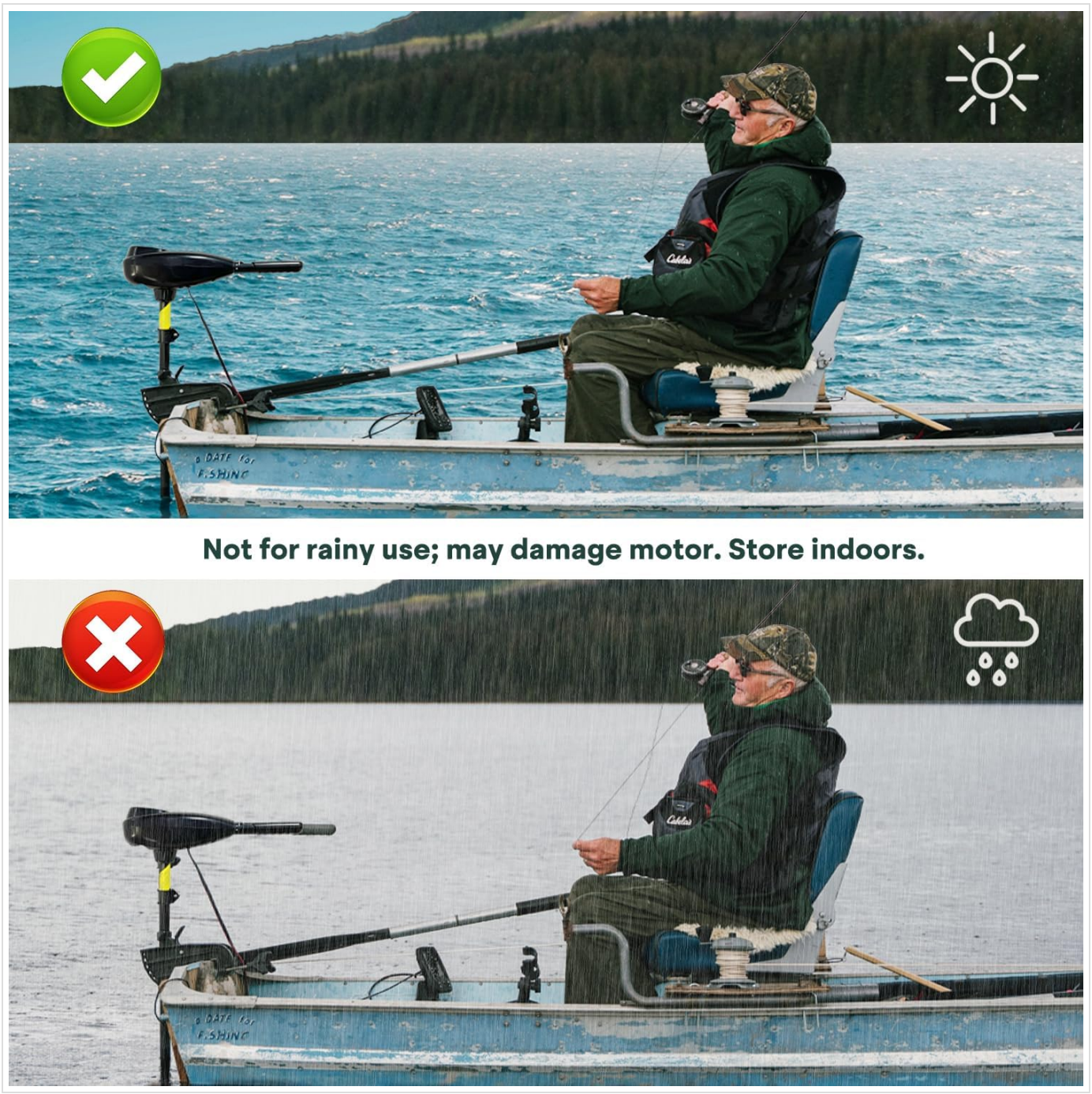



Image 6.1: Illustration emphasizing that the trolling motor is not designed for use in rainy conditions and should be stored indoors to prevent damage.

## 7. Troubleshooting

This section provides solutions to common issues you might encounter.

- **Motor Not Operating:**
  - Check battery connections to ensure they are secure and clean.
  - Verify battery charge level using the LED indicator. Recharge if necessary.
  - Ensure the speed control is set to an active speed (not off or neutral).
- **Reduced Thrust or Performance:**
  - Inspect the propeller for any entanglement (e.g., weeds, fishing line). Clear any obstructions.

- Check for damage to the propeller blades. Replace if severely damaged.
- Verify battery charge. Low battery voltage will result in reduced thrust.

- **Motor Stops Unexpectedly:**
  - If the propeller becomes trapped in heavy weeds or encounters significant resistance, the motor's fuse may trip to prevent overheating and damage. Clear the obstruction and allow the motor to cool before attempting to restart.
  - Check for loose wiring connections.
- **Unusual Noise or Vibration:**
  - Inspect the propeller for damage or imbalance.
  - Ensure the motor is securely mounted to the transom.

## 8. Specifications

Detailed technical specifications for the Cloud Mountain Trolling Motor (Brushed 86-24V model).

| Specification | Value |
|---|---|
| Brand | Cloud Mountain |
| Model Name | 86 LBS Thrust 8 Speed Electric Outboard Trolling Motor |
| Part Number | TM3102CT86-New |
| Style | Brushed 86-24V |
| Thrust | 86 LBS |
| Shaft Length | 30 inches |
| Voltage | 24 Volts |
| Current | 48 A |
| Output Power | 1152 Watts |
| Net Weight | 21.3 Pounds |
| Material | Alloy Steel, Aluminum, Reinforced Nylon, Composite Fiberglass |
| Engine Type | Trolling Motor |
| Operation Mode | Electric |
| Recommended Uses | For Fresh Water, For Salt Water |
| Mounting Type | Transom Mount |
| Speeds | 8 (5 Forward, 3 Reverse) / Stepless Speed Control |
| Propeller Type | 3 Blade Machete Propeller |
| LED Indicator | 1-10 LEDs (Power Indicator) |

| Specification | Value |
|---|---|
| Product Dimensions (LxWxH) | 18"D x 42"W x 4"H |
| Item Package Dimensions (LxWxH) | 44.9 x 18.9 x 6.3 inches |
| Package Weight | 26 Pounds |

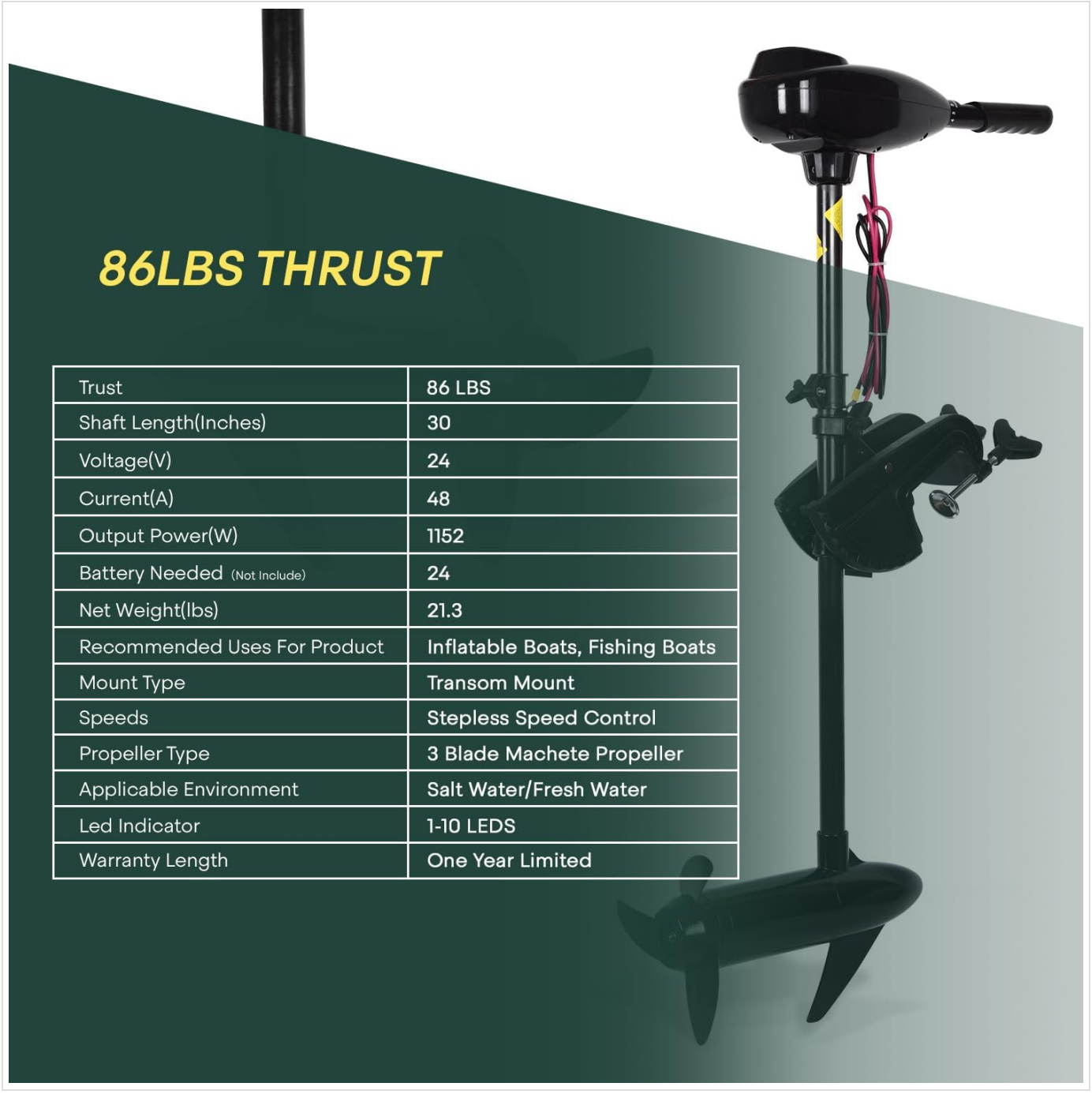



Image 8.1: Visual representation of key specifications for the 86LBS thrust trolling motor, including thrust, shaft length, voltage, current, output power, net weight, recommended uses, mount type, speeds, propeller type, applicable environment, LED indicator, and warranty length.

## 9. Usage Guidelines and Compatibility

Understanding the appropriate usage and compatibility helps in selecting the right trolling motor for your boat and ensuring safe operation.

## Thrust and Load Capacity

The thrust rating of a trolling motor relates to the load capacity of the boat it can effectively move, not its speed. Higher thrust is generally recommended for heavier boats or challenging conditions.

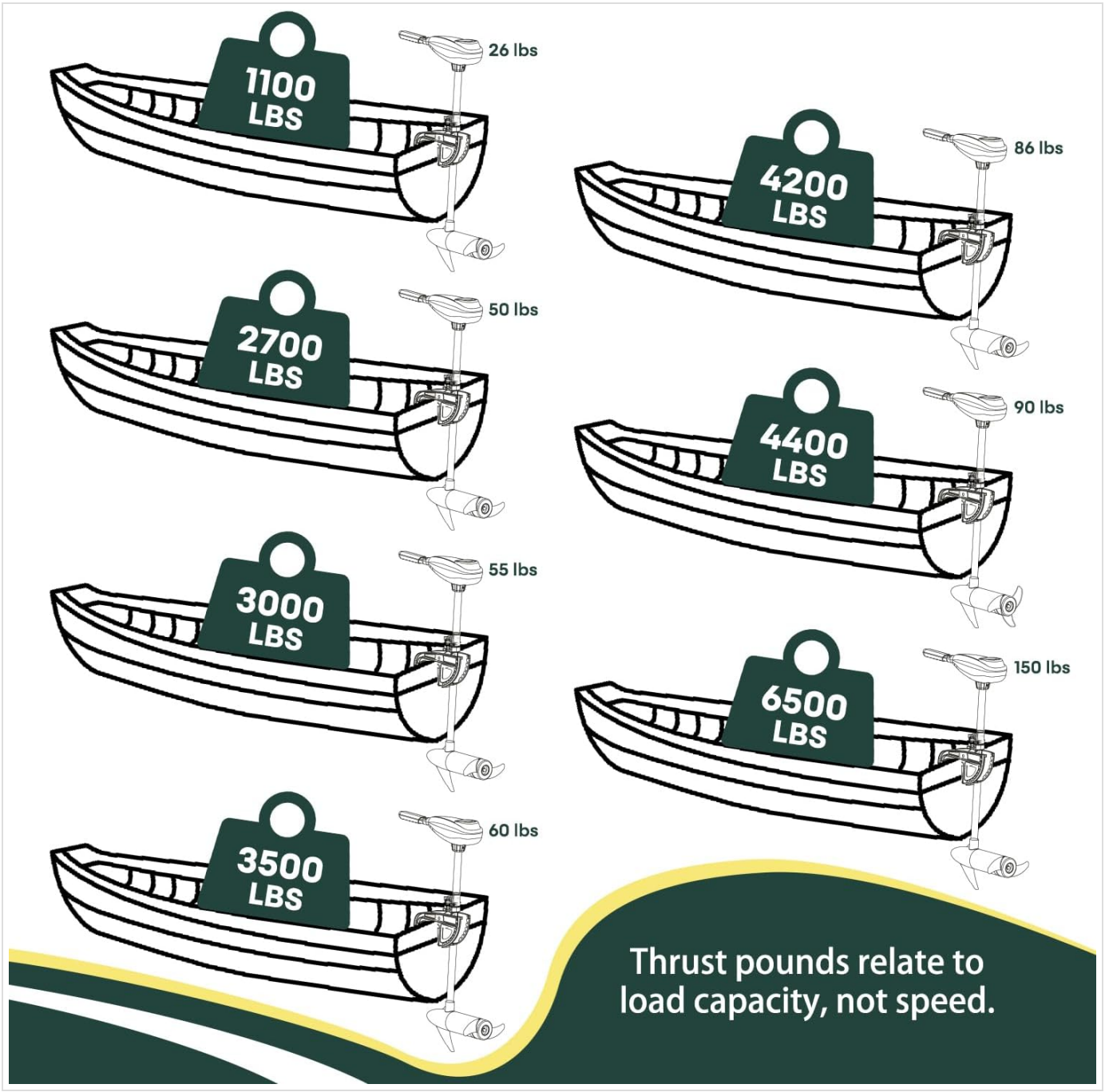



Image 9.1: Illustrates the relationship between trolling motor thrust (in lbs) and the corresponding boat load capacity (in lbs). For example, an 86 lbs thrust motor is suitable for boats up to 4200 lbs.

## Recommended Boat Size and Shaft Depth

Choosing the correct thrust and shaft length is important for efficient propulsion and control.

| Motor Type | Minimum Thrust | Boat Weight | Boat Length | Thrust for Strong Wind or Current | Speed (Km/H) | Suggest Depth for Shaft | Note |
|---|---|---|---|---|---|---|---|

| Motor Type | Minimum Thrust | Boat Weight | Boat Length | Thrust for Strong Wind or Current | Speed (Km/H) | Suggest Depth for Shaft | Note |
|---|---|---|---|---|---|---|---|
| Brushed Trolling Motor | 26 lbs | 1100 lbs | 10-11 FT | 30 lbs | 7 Km | The depth of the shaft of a trolling motor engine submerged underwater is generally between a minimum of 9.8" (over the propeller) and a maximum of 15.7". | When in doubt, it's better to choose an overpowered trolling motor |
| | 50 lbs | 2700 lbs | 19-20 FT | 55 lbs | 7 Km | | |
| | 55 lbs | 3000 lbs | 22-23 FT | 60 lbs | 7 Km | | |
| | 60 lbs | 3500 lbs | 22-23 FT | 86 lbs | 7 Km | | |
| | 86 lbs | 4200 lbs | 24-25 FT | 90 lbs | 7 Km | | |
| Brushless Trolling Motor | 90 lbs | 4400 lbs | 25-26 FT | 100 lbs | 8 Km | | |
| | 150 lbs | 6500 lbs | 32-35 FT | 180 lbs | 8 Km | | |

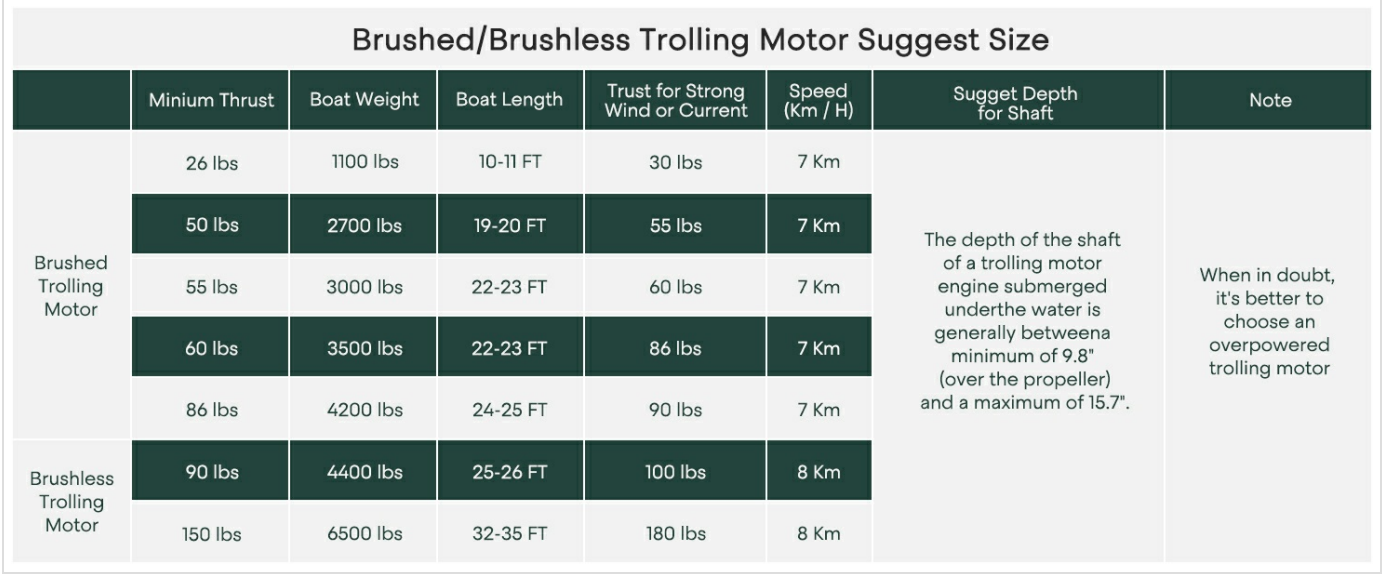



Image 9.2: Table providing guidance on selecting the appropriate trolling motor thrust based on boat weight and length, including suggested shaft depth and performance in strong winds or currents.

## Applicable Environments

The Cloud Mountain Trolling Motor is versatile and can be used with various types of boats in different water conditions.




Image 9.3: Examples of various boat types suitable for use with the Cloud Mountain Trolling Motor, including Jon Boats, Small Aluminum Boats, Kayaks, Canoes, Fishing Boats, Dinghies, Inflatable Boats, and Pontoon Boats.

## 10. Warranty and Support

Your Cloud Mountain Trolling Motor comes with a manufacturer's warranty and support information.

- **Warranty:** This product is covered by a 1-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims.
- **Manufacturer:** Cloud Mountain
- **Seller:** Cloud Mountain (via Amazon)
- **For Support:** For any questions, technical assistance, or warranty claims, please contact Cloud Mountain customer service through the platform where the product was purchased or visit the official Cloud Mountain store page on Amazon: Cloud Mountain Store.

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