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A1 24V 700W

Electric Outboard Motor Product Manual

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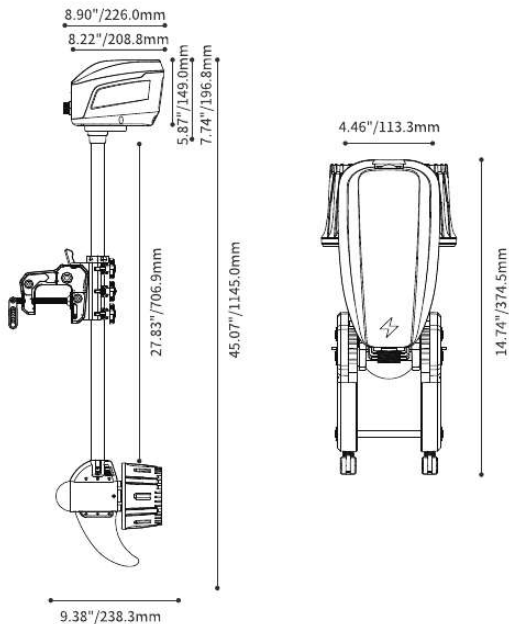


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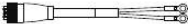
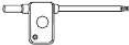
PRODUCT OVERVIEW

24V 700W Electric Outboard Motor

Rated Output Power	700W
DC Input Voltage	20V to 30V
Rated Rotation Speed	2500RPM



Additional Components

Part / Qty	Image
Remote Control x 1	
Remote Control Neck Lanyard x 1	
USB Charging Cable for Remote Control x 1	
Waterproof Connection Cable x 1	
Battery M8 Connection Cable x 1	
Adjusting Tool x 1	
Fin x 1	
Fin Mounting Screws x 3	
Fin Mounting Tool x 1	

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions carefully before installation and operation. If you are not familiar with electrical connections or boat-mounted equipment, seek assistance from a qualified professional. This manual contains important safety, installation, and operating instructions for the electric outboard motor.

- Improper operation of the electric outboard motor may result in serious injury, drowning, property damage, loss of vessel control, or product malfunction.
- Follow all local boating regulations and safety requirements when operating this product.
- DO NOT allow children to operate this product without adult supervision.
- There are no user-serviceable parts inside this product. DO NOT disassemble, modify, or attempt to repair the electric outboard motor.
- Use only a compatible 20V to 30V DC battery or battery system with this electric outboard motor. DO NOT connect the battery with reversed polarity.
- Before each use, inspect the propeller, clamp knob, remote control, angle adjustment handle, waterproof brushless motor, and positioning bracket to ensure they are in good working condition.
- Ensure the motor is firmly mounted and that the boat transom is structurally capable of supporting the motor during operation. Failure to properly secure the motor may result in equipment damage or loss of the motor while underway.
- Always keep a paddle or other manual propulsion device on board to avoid being stranded on the water if power is lost or the electric outboard motor becomes unavailable.
- Before starting the motor, check the propeller area for weeds, fishing lines, plastic bags, ropes, or other debris. The rotating propeller can cause severe injury. Before starting and during operation, always keep people, animals, hands, feet, clothing, ropes, fishing lines, and other objects away from the propeller.
- DO NOT operate the propeller at high speed out of water for extended periods.
- DO NOT operate this product in severe weather or hazardous water conditions, including strong winds, large waves, thunderstorms, fast-moving currents, or other unsafe conditions.
- Select an appropriate speed according to vessel load, water conditions, traffic, visibility, and the surrounding environment. Slow down in advance when approaching shore, docks, shallow water, swimmers, or other obstacles.
- DO NOT operate at high speed in areas containing dense weeds, fishing nets, ropes, or other underwater obstructions.

- Avoid prolonged operation at full throttle in ambient temperatures above 40°C / 104°F, as thermal protection may be activated to protect the motor and control system.
- Actual speed and operating performance may vary depending on boat type, vessel load, battery capacity, battery condition, water current, wind conditions, and installation method.
- Do not take the remote control underwater while diving. The remote control is designed to float on the water surface.
- Always disconnect the battery before inspection, maintenance, cleaning, lifting, transport, or propeller service.
- Remove the electric outboard motor from the boat before transporting the boat. Transporting the boat with the motor still mounted may cause an accident, resulting in serious personal injury or property damage.

If you have any questions or need assistance, please contact customer support at service@litime.com.

FCC STATEMENT (FCC ID: 2BDSV-OBMA1)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

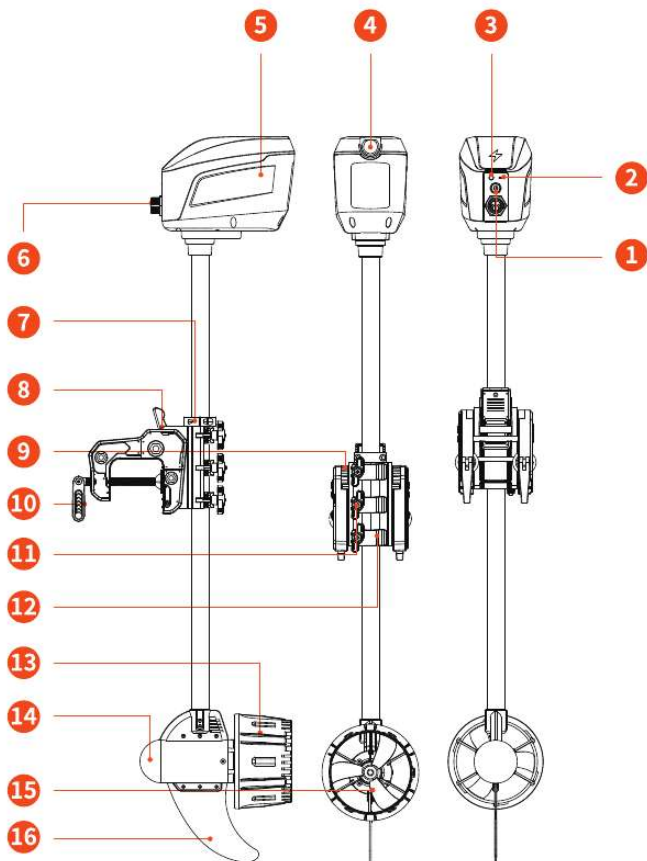
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.



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IDENTIFICATION OF PARTS



No.	Parts	Statement
1	Emergency Switch	Backup control used when the remote control is unavailable.
2	LED Indicator	Lights green automatically after power-on.
3	Light Sensor Area	Detects ambient light for the Night Sensor Light.
4	Night Sensor Light	Automatically turns on in low-light conditions.
5	Steering System	Controls motor steering. Keep above the waterline. Do not immerse in water.
6	Waterproof Interface	Connects the motor to the power cable.
7	Height Limit Collar	Sets max motor depth, prevents over-lowering. The height is adjustable.
8	Angle Adjustment Handle	Used to adjust the motor tilt angle.
9	Positioning Bracket	Used to secure the motor at the selected tilt angle.
10	Clamp Knob	Used to secure the motor to the boat transom.
11	Multifunction Knob	Used to adjust and lock the height and direction of the motor.
12	Locking Clip	Used to secure the outboard motor shaft in place and can be released to remove the shaft.
13	Propeller Shield	Helps protect the propeller and reduce accidental contact.
14	Waterproof Brushless Motor	Underwater drive motor.
15	Weedless Propeller	Provides propulsion.
16	Fin	Helps improve directional stability. Install before use.

Note: If the remote control loses power, use the motor's emergency switch and multifunction knob to return to shore.

REMOTE CONTROL

Appearance Overview



Icon	Introduction	Statement
	Signal	Displayed based on signal strength.
	Child Lock	Indicates whether lock is enabled.
	Cruise Control	Indicates whether Cruise Control is enabled.
	Work Mode	Shows the current operating mode.
	Thruster Throttle	Shows thruster throttle percentage.
	Remote Control Battery Level	Each battery bar provides about 2 hours of remote control use, up to about 8 hours when fully charged. Actual time may vary.

If the remote control does not function properly, try restarting it.

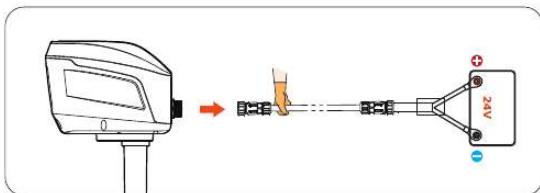
No.	Parts	Statement
1	LED Indicator	Red: Charging; Green: Fully Charged.
2	LCD Screen	Displays signal, lock, cruise, mode, throttle, and control battery level.
3	Steering/Throttle Joystick	Controls forward/reverse movement, speed adjustment, and steering.
4	On/Off Button	Turns the remote control on/off and locks/unlocks the remote control.
5	Button 1 (Mode Button)	Selects Mode 1 for normal operation.
6	Button 2	Used only for remote re-pairing.
7	Left Trim Button	Fine-adjusts the steering to the left.
8	Right Trim Button	Fine-adjusts the steering to the right.
9	Charging Port	Magnetic USB charging interface.
10	Cruise Control Button	Enables or cancels Cruise Control.

Re-Pairing the Remote Control

The remote control and motor are paired before shipment. Re-pairing is only required if the remote control is replaced.

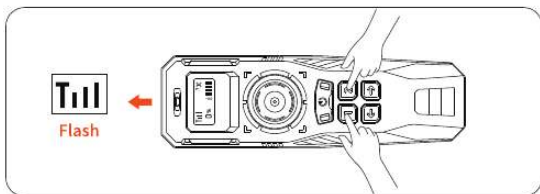
Step
1

Make sure the motor is powered on, then disconnect the Waterproof Connection Cable.



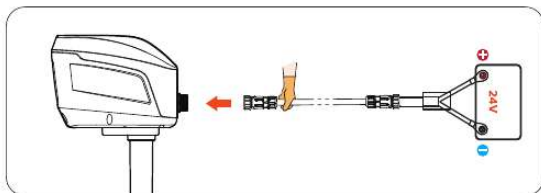
Step
2

Press and hold Button 1 (Mode Button) and 2 on the remote control at the same time until the signal icon flashes.



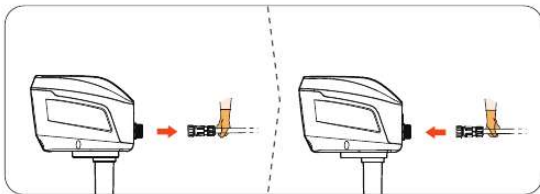
Step
3

Insert the Waterproof Connection Cable into the Waterproof Interface until the motor LED Indicator turns green.



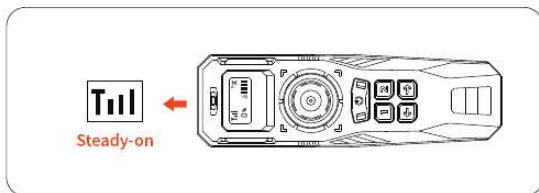
Step
4

Disconnect the Waterproof Connection Cable again to power-cycle the motor. Then reconnect it to the Waterproof Interface and tighten the threaded connector securely.



Step
5

Pairing is successful when the Signal icon on the remote control changes from flashing to solid.



INSTALLATION & OPERATION

Before Use

- ★ Always wear an approved life vest or PFD (personal flotation device) and comply with local boating regulations.



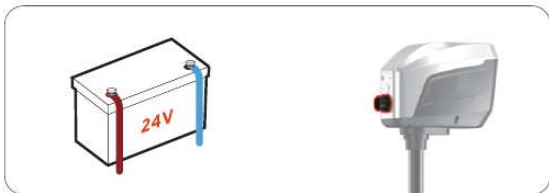
- ★ Keep a paddle or other manual propulsion device on board to avoid being stranded on the water if power is lost or the electric outboard motor becomes unavailable.



- ★ Be aware of swimmers in close proximity to your vessel.



- ★ Make sure the motor is disconnected from the battery before installing.

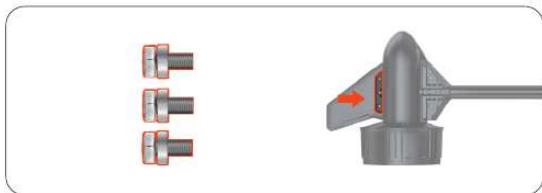


Installation Steps

Step
1

Install the Fin

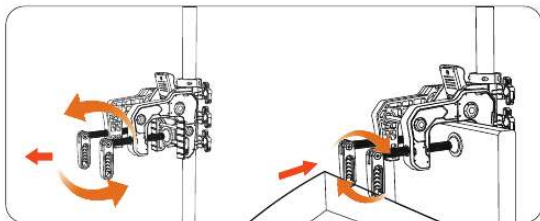
Attach the fin to the motor using the supplied fin mounting screws and tool.



Step
2

Mount the Motor on the Transom

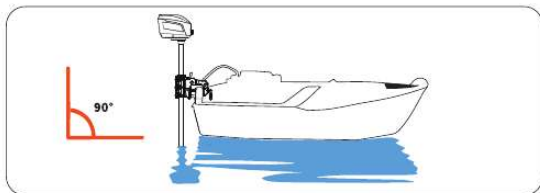
Loosen two clamp knobs, mount the outboard motor onto the transom, and then tighten the clamp knobs securely.



Step
3

Adjust the Motor Angle

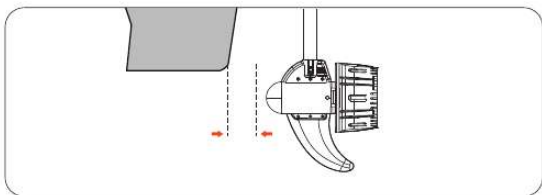
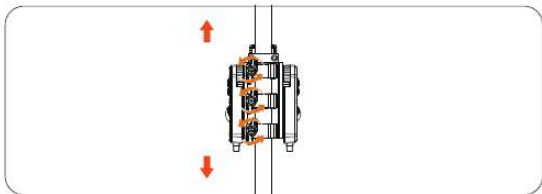
Pull up the angle adjustment handle, tilt the motor to the proper position, and lock it with the positioning bracket. Make sure the motor shaft is vertical in the water and not tilted forward or backward.



Step
4

Adjust the Motor Height

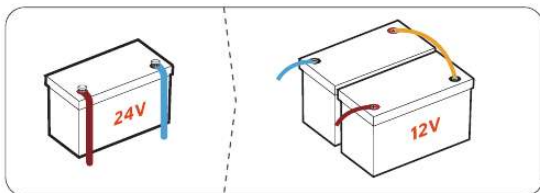
Use the height adjustment lock and tool to set the motor height so that the underwater motor is fully submerged below the bottom edge of the transom during operation.



Step
5

Connect the Battery Cable to the Battery

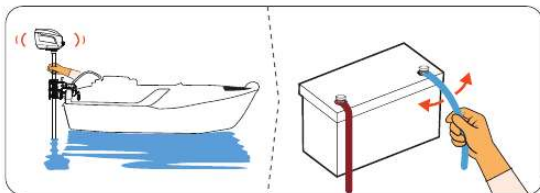
Connect the M8 terminals of the provided battery cable to a compatible battery or battery system: **+** to **+**, **-** to **-**. Make sure the polarity is correct before continuing.



Step
6

Check the Mounting and Cable Connections

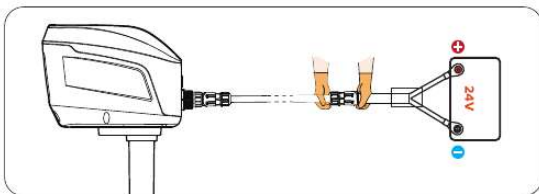
Before powering the system, confirm that the clamp knobs are fully tightened, the motor height is correct, and all cable connections are secure and properly routed.



Step
7

Connect the Waterproof Connection Cable

Connect the supplied waterproof connection cable to the motor power port first. Then connect this cable to the battery connection cable.

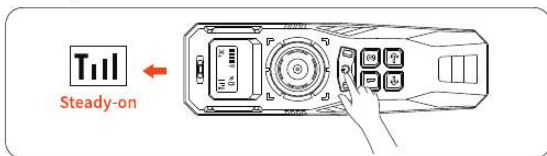


Operation

Plan your turns and stops in advance. The boat may continue moving due to momentum after throttle is reduced or stopped. Slow down early and allow enough distance when approaching the shore, docks, shallow water, swimmers, or other obstacles.

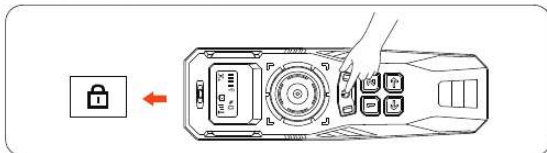
Power On / Off

Press and hold the On/Off button for 3 seconds to turn the remote control on or off. The motor is ready to operate when the Signal icon stays solid.



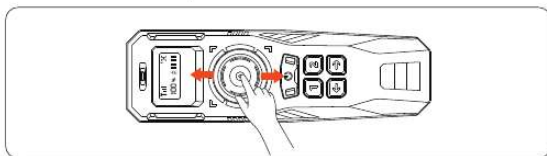
Lock / Unlock the Remote Control

When the motor is stopped, short press the On/Off button to lock or unlock the remote control.



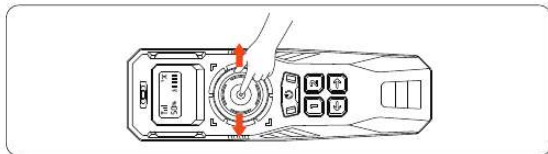
Forward / Reverse

In non-cruise mode, push the joystick forward to move forward. Pull it backward to stop or reverse.



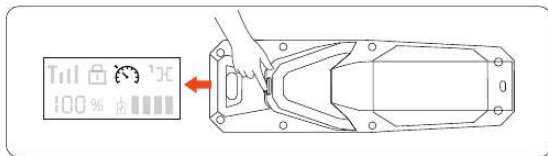
Steering

Move the joystick left or right to steer left or right.



Cruise Control

Short press the Cruise Control button to maintain the current speed. In Cruise Control mode, push the joystick forward to increase speed or pull it backward to decrease speed. Speed changes are made in preset steps based on the current throttle level. Press the Cruise Control button again to cancel Cruise Control; power output will drop to 0 and the motor will stop.



Emergency Switch

Use the Emergency Switch on the electric outboard motor only if the remote control is unavailable. Each press cycles the motor through the preset speed sequence.

If each press is made within 5 seconds, the switch cycles through: Stop → Low Speed(30%) → Stop → Medium Speed(60%) → Stop → High Speed(100%) → Stop, then repeats.

If more than 5 seconds passes between presses, the switch resets to the basic cycle:

Stop → Low Speed(30%) → Stop → Low Speed(30%), then repeats.



Care, Maintenance, and Storage

- Stop the motor and disconnect the battery from the outboard motor system before lifting, cleaning, inspecting, transporting, or storing the product.
- After each use, remove weeds, fishing line, plastic bags, sand, or other debris from the propeller area and underwater motor with a suitable tool.
- If the steering system is splashed with water or water enters the upper steering area during use, disconnect power after use and hang the motor vertically to drain for 10-20 minutes.
- After use in saltwater or brackish water, soak the underwater section in fresh water for 5-10 minutes, or rinse it thoroughly with low-pressure fresh water. Do not spray high-pressure water directly at seals, connectors, the steering system, or electrical interfaces.
- Before long-term storage, allow the product to air-dry naturally in a well-ventilated area for 12-24 hours.
- Store the product in a cool, dry, well-ventilated indoor location. For long-term storage, the recommended storage temperature is 5°C to 25°C / 41°F to 77°F. Do not store the product for long periods below 0°C / 32°F or above 40°C / 104°F.
- Remove the outboard motor from the transom and store it indoors or in a shaded area if the product will be idle for more than 1 month. Prolonged direct sunlight may accelerate aging of housings and seals, damage the remote control LCD, and increase the temperature of metal parts, which may affect the service life of electronic components.
- Charge the remote control before storage if the battery level is low. Store it in a dry location.



SPECIFICATIONS

Outboard Motor

Parameter	Value
Input Voltage	20V to 30V
Rated Power	700W
Rated Rotation Speed	2500RPM
Steering Angle	±40° Left/Right
Cruise Control Function	Yes
Protection Functions	Stalled Rotor, Over-voltage, Over-current, Over-temperature, Emergency Stop
Protection Class	Underwater Motor: IP68 Steering System: IP65
Temperature Range	Work: 0°C to 40°C / 32°F to 104°F Storage: 0°C to 40°C / 32°F to 104°F
Net Weight	Appr. 13 lbs / 5.9 kg

Remote Control

Parameter	Value
Control Method	2.4 GHz Wireless Remote Control
Max. Remote Control Distance	20m/65.6ft
Remote Controller Input	USB 5V/1A
Protection Class	IP67
Dimensions	L5.71*W1.73*H2.43 inch/L145*W44*H61.7 mm
Weight	Appr. 0.31 lbs/139 g

Estimated Runtime and Range

At 50% Throttle, Approx. Speed: 2.5-3.1 mph (4-5 km/h)

Battery Specification	Estimated Runtime	Estimated Range
25.6V 50Ah LiFePO4	16 hr 40 min	41.4-51.8 miles / 66.7-83.3 km
25.6V 100Ah LiFePO4	33 hr 20 min	82.8-103.6 miles / 133.3-166.7 km

At 100% Throttle, Approx. Speed: 4.3-6.2 mph (7-10 km/h)

Battery Specification	Estimated Runtime	Estimated Range
25.6V 50Ah LiFePO4	1 hr 51 min	8.1-11.5 miles / 13.0-18.5 km
25.6V 100A LiFePO4	3 hr 42 min	16.1-23.0 miles / 25.9-37.0 km

The estimated values above are estimates for reference only. Actual performance may vary depending on boat type, load, battery condition, water and wind conditions, installation, and operating habits.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not power on.	Battery is not well connected.	Connect the battery securely, ensure all connections are tight and correct.
	Battery voltage is out of the supported range.	Use a compatible 20V-30V battery or battery system.
	Waterproof connection cable is not well connected.	Disconnect and reconnect the waterproof connection cable until it is fully seated.
	Battery polarity is reversed.	Verify that the battery is connected correctly (+ to +, - to -).
	Battery is fully discharged.	Recharge or replace the battery.
Remote control cannot control the motor.	Remote control is powered off.	Turn on the remote control.
	Remote control battery is low.	Recharge the remote control.
	Remote control is not paired.	Pair the remote control with the motor again.
	Remote control is locked.	When the motor is stopped, short press the On/Off button to unlock the remote control.
	The remote control is out of communication range.	Move closer to the motor and try again.
Propeller does not rotate.	Weeds or debris are wrapped around the propeller.	Stop the motor, disconnect the battery, and use a suitable tool to remove weeds or debris from the propeller area.
	Propeller is damaged.	Replace the propeller.
	Motor protection has been activated.	Restart the motor after removing the cause of the protection.

Motor stops during operation.	Battery voltage is too low.	Recharge the battery.
	Motor is overloaded.	Reduce the load and restart the motor.
	Motor has overheated.	Allow the motor to cool before restarting.
Motor starts but boat does not move normally.	Propeller is not fully submerged or motor height is incorrect.	Adjust the motor height so the underwater motor is fully submerged during operation.
Boat moves in the wrong direction.	Forward/reverse direction was selected incorrectly.	Stop the motor, then push the joystick forward for forward drive or pull it backward for reverse drive.
Low thrust or reduced speed.	Battery level is low.	Recharge the battery.
	Propeller is damaged or blocked.	Stop the motor, disconnect the battery, then clean the propeller area with a suitable tool or replace the propeller if damaged.
	Excessive boat load.	Reduce the load to improve performance.
Steering does not respond.	Steering mechanism is obstructed.	Remove any obstruction and try again.
	Remote signal is interrupted.	Move closer to the motor and eliminate possible interference.
Cruise Control cannot be activated.	Boat speed has not been set.	Accelerate to the desired speed before enabling Cruise Control.
	Cruise Control was cancelled.	Resume the desired speed and short press the Cruise Control button again.
Remote control cannot be charged.	USB charging cable is loose.	Reconnect the charging cable.
	USB power supply is faulty.	Use a 5V 1A USB power adapter.
Abnormal vibration or noise.	Propeller is damaged.	Replace the propeller.
	Propeller is wrapped with weeds or fishing line.	Remove all debris before operating.
	Motor is not securely mounted to the transom.	Tighten the clamp knobs securely.
Water was found inside the motor.	Seal has been damaged.	Stop using the motor immediately and contact customer service.
Other issues.	Unidentified cause.	Contact LiTime customer support at service@litime.com for assistance.



LiTime Argoseeker - From Paddle to Power.
Go Farther, See More, Leave No Wake.



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