

Smart Side Mount Control Evo User Manual



2026.3 Version 1.2

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Acknowledgement

Thanks for choosing ePropulsion products, your trust and support in our company are sincerely appreciated. We are dedicated to providing high-performance electric outboards, sup/kayak motors, reliable lithium batteries and accessories.

Welcome to visit www.epropulsion.com and contact us if you have any concerns.

Using This Manual

Before use of the product, please read this user manual thoroughly to understand the correct and safe operations. By using this product, you hereby agree that you have fully read and understood all contents of this manual. ePropulsion accepts no liability for any damage or injury caused by operations that contradict this manual.

Due to ongoing optimization of our products, ePropulsion reserves the rights of constantly adjusting the contents described in the manual. ePropulsion also reserves the intellectual property rights and industrial property rights including copyrights, patents, logos and designs, etc.

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ePropulsion reserves the rights of final interpretation of this manual.

This manual is multilingual, in case of any discrepancy in the interpretation of different language versions, the English version shall prevail.

Symbols

The following symbols will help to acquire some key information.



Important instructions or warnings



Useful information or tips

Product Serial Number

The serial number is located as shown below. Please take note of it and keep it in a safe place, as it may be required when purchasing accessories or if you need service or warranty.

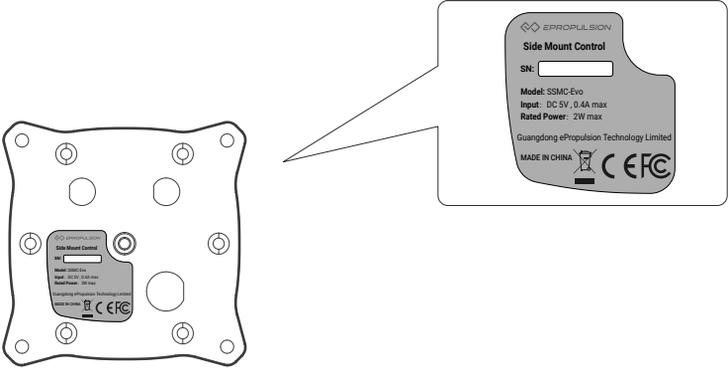


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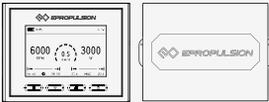
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1 Product Introduction

The Smart Side Mount Control Evo enables wired system communication for motor startup, throttle control, and gear switching (F/N/R).

1.1 In the Package

| Items | Qty. | Figure |
|--|-------|---|
| Smart Side Mount Control Evo | 1 pcs |  |
| Evo Display | 1 pcs |  |
| Communication Cable | 1 pcs |  |
| Kill Switch | 1 pcs |  |
| Phillip Countersunk Head Tapping Screw M5x12 | 4 pcs |   Phillip Countersunk Head Tapping Screw M5x12 Phillip Countersunk Head Screw M5x16 |
| Phillip Countersunk Head Screw M5x16 | 4 pcs | |
| Hex Locknut M5 | 4 pcs |   Hex Locknut M5 Flat washer M5 |
| Flat washer M5 | 4 pcs | |
| Hex Locknut M3 | 4 pcs |   Hex Locknut M3 Hexagon Socket Head Cap Screw M3X12 |
| Hexagon Socket Head Cap Screw M3X12 | 4 pcs | |
| Hexagon Socket Head Cap Screw M3X12 | 4 pcs |  Hexagon Socket Head Cap Tapping Screw M3x12 |
| User Manual | 1 set |  |



Save ePropulsion original package for transport and storage.

1.2 Specification

| Smart Side Mount Control Evo | |
|------------------------------|------------------|
| Communication | Wired |
| Weight | 0.75kg |
| Dimensions | 178 × 98 x 83 mm |
| Protection Rating | IP67 |
| Operating Temperature | -5 to 55°C |
| Storage Temperature | -25 to 70°C |

1.3 Important Notes

1. Only adults who have fully read and understood this manual are allowed to operate this product.
2. Make sure the Side Mount Control is properly installed before use.
3. Remove the kill switch when it is not in use.
4. After detaching the throttle handle using the quick-release button, store it securely to prevent loss.

1.4 EU Declaration of Conformity

We Guangdong ePropulsion Technology Limited, hereby, declares that this equipment is compliance with the applicable Directives and European Norms, and amendments.

Object of the Declaration:

Product: Side Mount Control

Model: SSMC-Evo

Product: Display

Model: Evo Display Panel



The object of the declaration is in conformity with the following directives and regulation:

Electromagnetic Compatibility (EMC) Directive 2014/30/EU

Restriction of Hazardous Substances Directive 2011/65/EU and Delegated Directive (EU) 2015/863

EC REACH Regulation (EC 1907/2006)

Regulation on General Product Safety 2023/988

Applied Standards:

ISO 25197:2020

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Guangdong ePropulsion Technology Limited.

Address: Room 801, Building 1, 11 Daxue Road, Songshan Lake, Dongguan, Guangdong Province, China

Signature:  **Date:** 2025.5.20
Shizheng Tao, Chief Executive Officer & Cofounder of
Guangdong ePropulsion Technology Limited

1.5 FCC Compliance Statement

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.

1.6 Disposal and Environment



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

2 Installation & Wiring

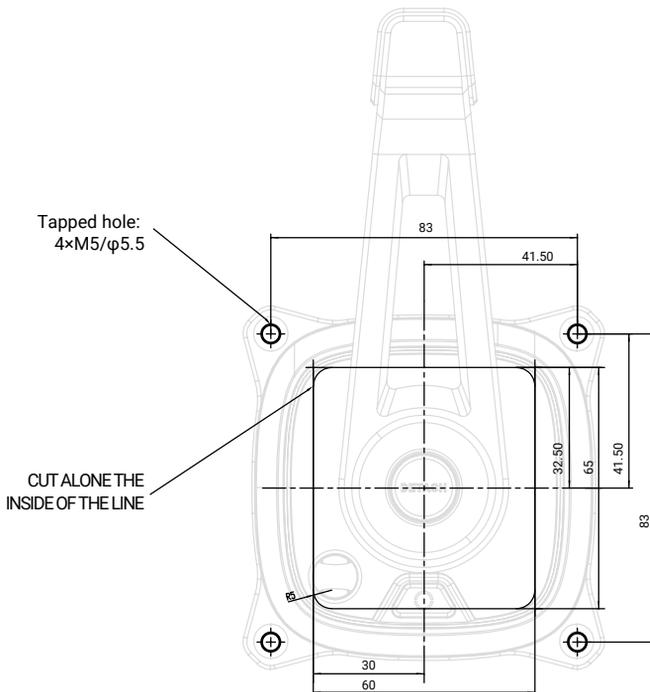
2.1 Installation

Mounting the Throttle

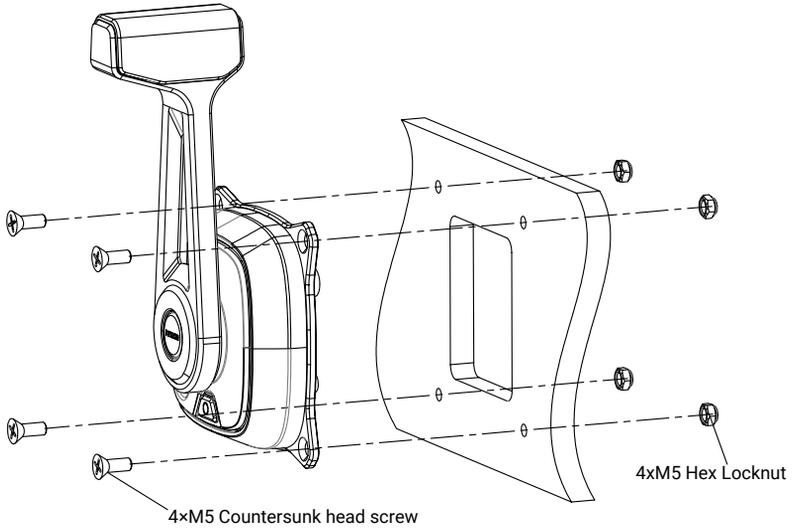
Follow the instructions below to fix the throttle of the Smart Side Mount Control to the boat. It can be mounted from the back side or front side.

2.1.1 Bolt Installation

1. Use the mount template to mark four holes on the hull, and drill holes.

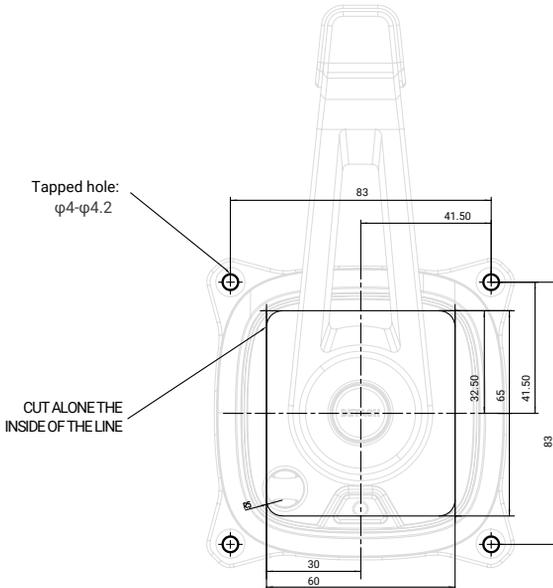


2. Align the throttle with the holes (handle upward) and secure with screws.coat the M5 Countersunk head Screws with loctite 243 and lock them with Hexagon lock nut(locking torque 3.0-3.5 N.m)

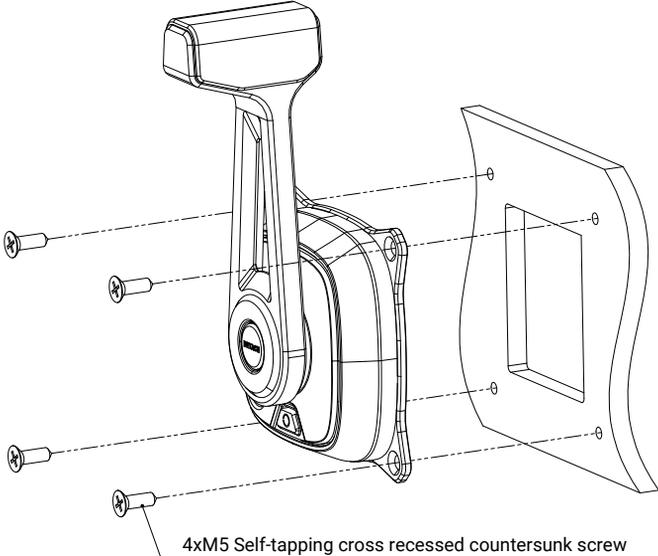


2.1.2 Self-Tapping Screw Installation

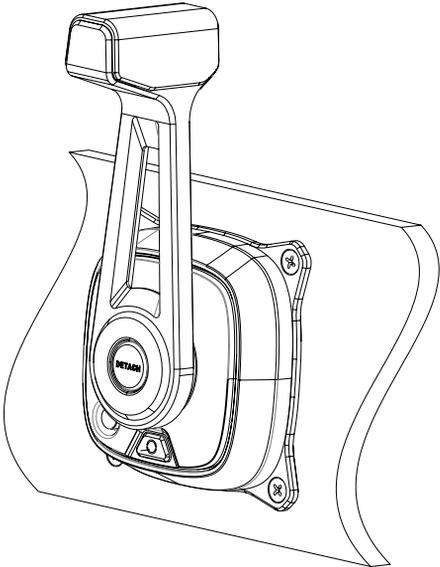
1. Use the mount template to mark four holes on the hull.



2. Align the throttle with the holes (handle upward) and secure with screws.



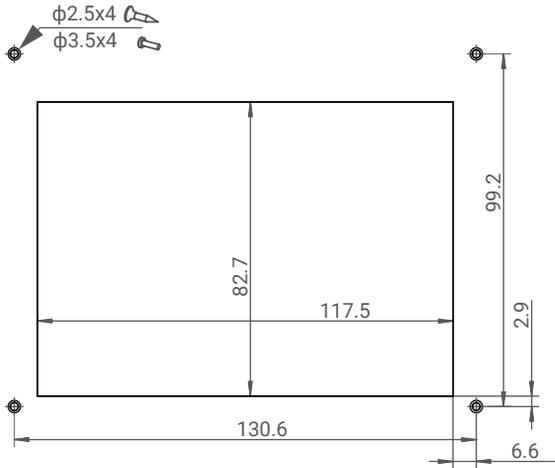
3. Installation completed.



2.2 Mounting the Display Panel

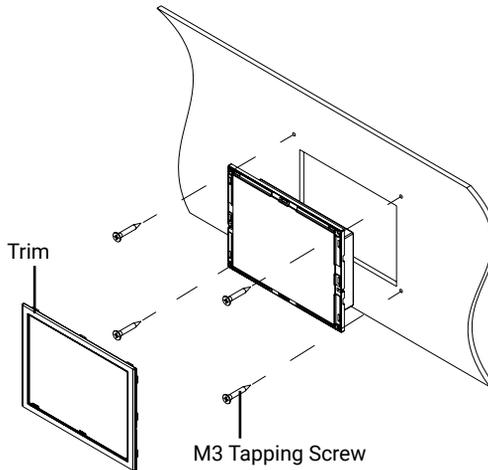
Follow the instructions below to fix the display panel of the Evo Side Mount Control to the boat.

1. Drill holes on the hull through the fixing guide.



2. Remove the trim.

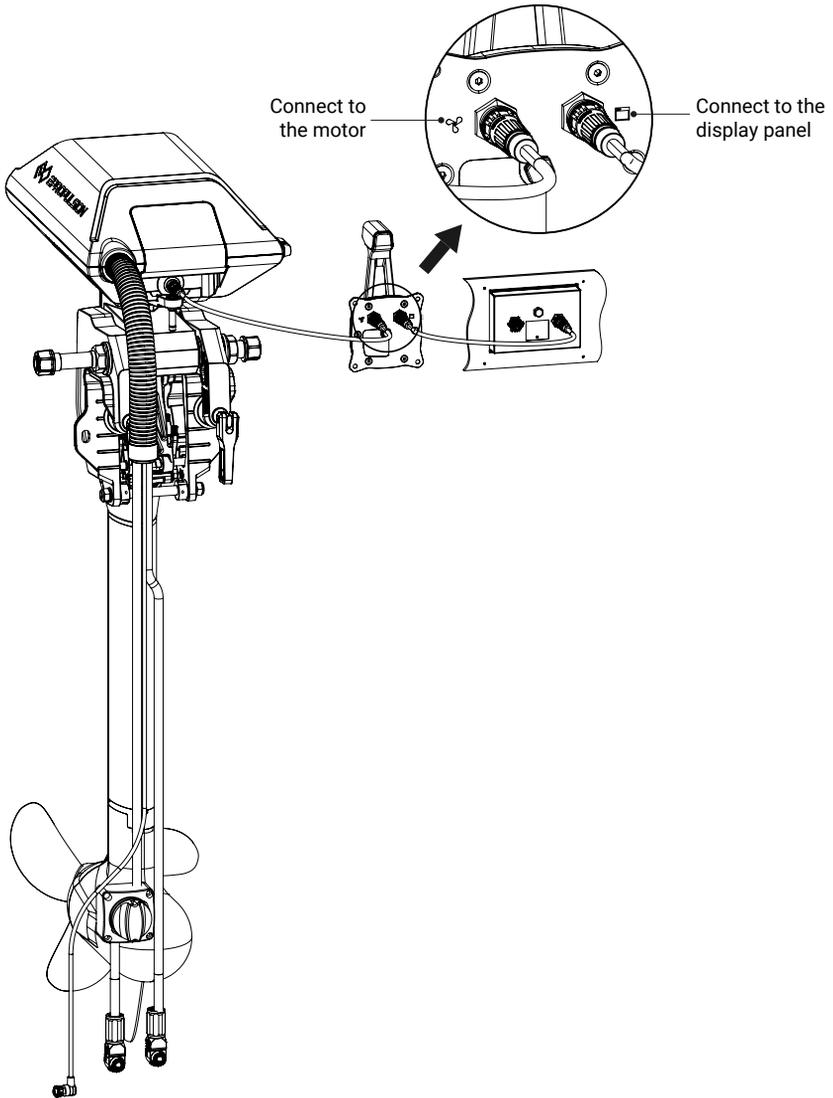
3. Fix the display panel to the boat.



If a panel board thickness is between 2mm (0.08 in.) and 8mm (0.31 in.), please use the supplied screws. If not, please purchase suitable screws separately.

2.3 Wiring

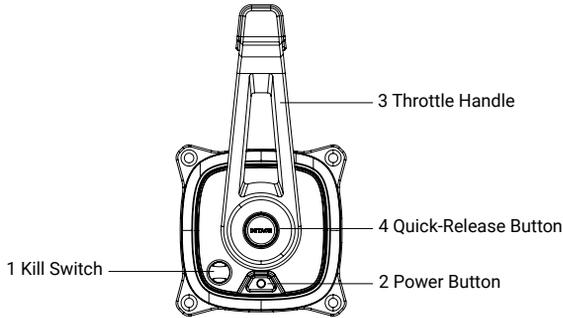
Connect the motor and the display panel according to the diagram on the rear panel interface of the Smart Side Mount Control.



3 Function

3.1 Throttle

3.1.1 Function Overview



| NO. | Module | Description |
|-----|----------------------|---|
| 1 | Kill Switch | <ol style="list-style-type: none">1. Pre-Operation: Insert the kill switch before starting the motor.2. Shutdown: Remove the kill switch when powering off the system.3. Emergency Stop: Detach the kill switch to immediately power off the motor in emergencies.4. Restart Protocol: After an emergency stop, return the throttle to Neutral (N) before attaching the kill switch to restart. |
| 2 | Power Button | System Power Control: Power On: Press and hold (1 seconds) to activate the system. The power indicator illuminates. Power Off: Press and hold (2 seconds) to deactivate the system. The power indicator turns off. |
| 3 | Throttle Handle | F (Forward): Push forward to engage forward propulsion. N (Neutral): Center position for zero propulsion output. R (Reverse): Pull backward to engage reverse propulsion. Note: After installation, configure the throttle's port/starboard before initial use. Refer to Section 3.2 for configuration steps. |
| 4 | Quick-Release Button | Detach: Press to detach the throttle handle. Please securely store detached handles after removal to prevent loss. Reinstall: Align its circular hole with the quick-release button in its original position and press down firmly. No need to press the quick-release button during installation. Note: Primarily designed for sailboat racing scenarios. Avoid detachment in non-competitive use to minimize risk of loss. |

3.1.2 Power Adjusting

Smart Side Mount Control is used to adjust the input power of the motor. When the battery is properly connected, power on the motor, and then start the Smart Side Mount Control. When the throttle is in the neutral position, first pull the handle away from its base plate along a horizontal direction, then rotate the handle forward or backward to increase the power. Please refer to the picture below.



Before power on the Smart Side Mount Control, please reset the throttle to the neutral position. If you find a flickering "RESET" on the display, you are reminded to reset the throttle to the neutral position.

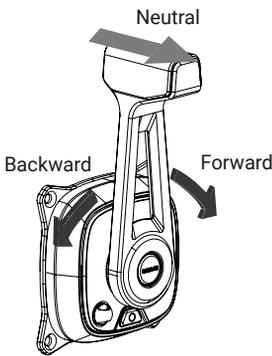


Figure 4-1 Port (left) side mode

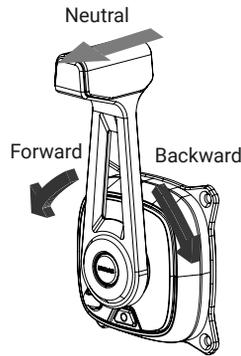


Figure 4-2 Starboard (right) side mode

3.2 Display Panel

3.2.1 Display Panel

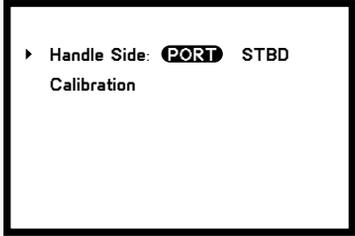
Smart Side Mount Control Evo will automatically be recognized as an Evo version if it is connected with the Evo machine. If connected with other ePropulsion machines, it is Spirit1.0 version by default. If you need to connect to NAVY outboard or Pod Drive, please switch to a different version according to the following steps:

| Version Setting Process | LCD Displaying |
|---|---|
| <p>Step1: In power-on state, press the Menu button and hold for 3s to enter the preference setting page. Press the Select button to switch to "Version". Press the Confirm button to enter Version Setting page.</p> |  |
| <p>Step2: Press the Select button to choose the version you need.</p> |  |
| <p>Step3: Press the Confirm button to save the setting. And it will return to preference setting page automatically.</p> |  |

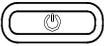
3.2.2 Port or Starboard Side Setting

Make sure the handle side setting is done correctly before use. The Evo Side Mount Control is in starboard (right) side mode by default. If you need to switch between the port (left) or starboard (right) side, please refer to the following process for setting.

| Handle Side Setting Process | LCD Displaying |
|---|---|
| <p>Step1: In power-on state, long press the Menu button to enter the preference setting page. Press the Select button to switch to "Throttle" and press the Confirm button to enter the Throttle setting page.</p> |  |

| Handle Side Setting Process | LCD Displaying |
|---|---|
| <p>Step2: Press the Confirm button to enter the Handle Side setting, then press the Select button to select the port side or the starboard side. Press Confirm button to save the setting.</p> |  |
| <p>Step3: Press Menu button to return to preference setting page automatically.</p> |  |

3.2.3 Display Panel

| | Buttons | Functions |
|---|----------------|---|
|  | Power button | <ol style="list-style-type: none"> 1. When the display panel is turned off, press and hold the power button to power on the display panel. 2. When the display panel is turned on, press and hold the power button to power off the display panel. 3. When the display panel is turned on, press the power button to switch on or off the backlight. |
|  | Confirm button | <ol style="list-style-type: none"> 1. On the main page, press the Confirm button to switch the display between battery level or battery voltage. 2. On setting pages, press the Confirm button to save the current settings and when setting the parameters, press Confirm button to switch to the next item. |
|  | Select button | <ol style="list-style-type: none"> 1. If connecting with NAVY outboards or Pod Drive 3.0/6.0, on the main page, press Select button to change the unit of speed and distance. 2. On setting pages, press Select button to view options for current setting, or adjust configuration parameters. |
|  | Menu | <ol style="list-style-type: none"> 1. In power-on state, long press the Menu button to enter the preference setting page. 2. On setting pages, press Menu button to return to the home page or previous page. |

 Please attached the kill switch properly before turning on the display panel, otherwise the display panel will display “Equipment offline”.

 All operations on the display panel need to be done in power-on state.

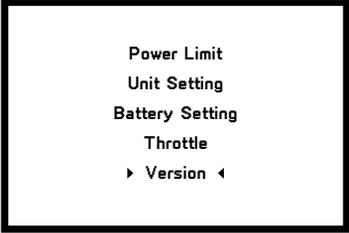
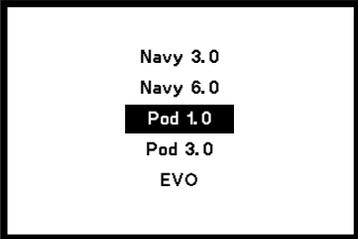
 If users enter the page without setting any parameters, the current parameters displayed on the page will be saved as user parameters by default.

| Icons | Functions | |
|---|----------------------------|---|
|  | Battery level indicator | Indicating battery level. |
| 48.0V 100% | Battery voltage / level | 48.0V : indicates current battery voltage. 100% : indicates current battery level. |
|  | Hydrogeneration indicator | The machine can turn on or off the hydro generation function on the performance page if it supported this function. Shown constantly: the hydro generation function is turned on. Blink: the machine is charging the battery. Hidden: the hydro generation function is turned off. |
|  | GPS status indicator | Hidden: no satellite signal is received or GPS does not work. Blink: GPS is connecting to satellites. Shown constantly: GPS is in use. If connect with SPIRIT 1.0 or Pod Drive 1.0, GPS status indicator will be always hidden. |
|  | Motor over-heat alert | Hidden: system temperature is in normal range. Blink: system temperature is a little high and the maximum input power of motor has been lowered than rated maximum power. Shown constantly: system is over temperature and the outboard will stop working. The outboard motor can't be started until the system temperature drops to a certain level. |
|  | Controller over-heat alert | Hidden: system temperature is in normal range. Blink: system temperature is a little high and the maximum input power of motor has been lowered than rated maximum power. Shown constantly: system is over temperature and the outboard will stop working. The outboard motor can't be started until the system temperature drops to a certain level. |

| Icons | Functions | |
|---|--|---|
|  | Fan fault | Hidden: fan works normally. Blink: fan has faults. |
| RESET | Throttle reset indicator | A blinking "RESET" indicating the throttle should be reset to the neutral position. |
| 3000 W | Throttle Power | Displaying real time input power to the system. |
|  | Current speed | Displaying real time cruising speed. Set units (KM/H, MPH or KNOTS) in preference setting page. If it is connected with SPIRIT outboards or pod drive 1.0, it will display the ePropulsion logo. |
| 6000 RPM | Rotational speed | Displaying real time motor rotational speed. |
| FNR | Throttle gear | F : forward gear N : neutral gear R : backward gear |
|  | Kill switch status indicator | Hidden: kill switch is well attached and works well. Shown constantly: the kill switch is detached. |
|  | Travelled distance/time or remaining distance/time |  : Remaining distance or time that outboard can travel.  : Travelled distance or time. |
|  | Time display | Displaying real time travel time. |
| MILE | Distance display | Displaying remaining distance that outboard can travel or travelled distance Set units (MILE, KM (kilometer) and NM (nautical mile)) in preference setting page. |

3.2.4 Version Setting

Evo Side Mount Control will automatically be recognized as an Evo version if it is connected with the Evo machine. If connected with other ePropulsion machine, it is Spirit1.0 version by default. If you need to connect to NAVY outboard or Pod Drive, please switch to a different version according to the following steps:

| Version Setting Process | LCD Displaying |
|---|---|
| <p>Step1: In power-on state, press the Menu button and hold for 3s to enter the preference setting page. Press the Select button to switch to "Version". Press the Confirm button to enter Version Setting page.</p> |  <p>Power Limit Unit Setting Battery Setting Throttle ▶ Version ◀</p> |
| <p>Step2: Press the Select button to choose the version you need.</p> |  <p>Navy 3.0 Navy 6.0 Pod 1.0 Pod 3.0 EVO</p> |
| <p>Step3: Press the Confirm button to save the setting. And it will return to preference setting page automatically.</p> |  <p>Power Limit Unit Setting Battery Setting Throttle ▶ Version ◀</p> |

4 Start and Stop the Motor

4.1 Checklist before Use

1. Ensure the Smart Side Mount Control Evo and steering wheel are installed in proper position before turning on the power.
2. Ensure the Smart Side Mount Control Evo travels smoothly with no obstructions.
3. Before connecting the battery, check and make sure there is no poor contacts or defects in cables.
4. Before connecting to NAVY outboard or Pod Drive, please check and ensure the main power switch is able to power on and off normally. After that, turn off the main power switch.
5. Ensure the version setting of the Smart Side Mount Control Evo corresponds to the model of the motor.
6. Ensure the battery has enough power.
7. When not using ePropulsion Batteries, ensure the batteries is configured before use.



Start the motor only when the propeller is beneath water, as the rotating propeller is dangerous.



If the cable is immersed in water, please dry it completely before connecting it to the battery or power on the system.



If the version is incorrect, refer to section 3.2.2 Version Setting to switch versions.

4.2 Starting the Motor

1. Complete the check list.
2. Remove the kill switch from the throttle.
3. Set the throttle in the neutral position.
4. Connect the battery to the motor.
5. If using the outboard, fix the outboard with a proper trim angle.
6. Turn on the main power switch when using the NAVY outboard or Pod Drive. If the outboard is connected to a E series battery, please also press the battery power button to power on.
7. Press Power button to turn on the display panel, then the main page will display.
8. Carry out preference setting and battery configuration if necessary.
9. Tie the kill switch to your wrist or life vest, then attach the kill switch to the throttle.
10. Press the power button of the throttle, then push the throttle slowly to start your motor.



If the display panel displays "Equipment offline":

1. Check whether the kill switch is attached to the proper position.
2. Please using a communication cable to connect the motor or the battery to the connector with the sign "  " on the Smart Side Mount Control Evo and use another communication cable to connect the display panel to the other connector with the sign "  ".
3. If the connection is correct after double checking, there may be the communication fault between the display panel and the throttle. Please check whether the communication cable is loosen or damaged.

4.3 Stopping the Motor

Usually, it's recommended to stop the motor as the following procedures.

1. Return the throttle to the neutral position. Wait until the motor stops, then detach the kill switch from the throttle.
2. Press and hold the Power button until the Smart Side Mount Control Evo is powered off.
3. If using the NAVY outboard or Pod Drive, turn off the main power switch. If the outboard is connected to a E series battery, please also press the battery power button to power off.
4. If using outboard, tilt the outboard above water surface or detach it from boat.



The motor will stop if one of the situations occurs.

- 1) The throttle is in the neutral position.
- 2) The kill switch is not in the kill switch placement of Smart Side Mount Control Evo.
- 3) The main power switch is off, while using a NAVY outboard or Pod Drive.
- 4) The communication between Smart Side Mount Control Evo and the motor breaks.
- 5) The connection between battery and the motor breaks.
- 6) Failure exists in the control system (e.g. motor is blocked or the low battery voltage level is detected).



In case of emergency, the motor can be stopped by following operations:

- 1) Detach the kill switch.
- 2) Turn the throttle back to the neutral position.

5 Warning Messages



Before conducting warning checks, please check the version of the motor in use.

When the motor is running in abnormal conditions or out of order, a warning message with an error code will display on the display panel. Please find more error codes and corresponding solutions in the below table.

a.Warning Messages (Evo Version)

The following error codes and solutions are applicable only to Evo outboard motor and Pod Drive Evo.

| Code | Cause | Solution |
|------|--|---|
| E01 | Battery voltage beyond operation range. | Replace a battery based on suggested operation specifications. |
| E02 | Propeller may be blocked, causing motor overcurrent | Refer to Solution to E10. |
| | Motor fails or circuit board fails causing motor overcurrent | Try to turn off the main switch and wait for 10 seconds then turn on the switch again. |
| E06 | The battery voltage level is too low. | Operate the motor at low power. Please charge the battery as soon as possible. |
| E10 | Motor stall, which may be caused by blocked propeller | Turn off power, then clean up the things winding around the propeller. Test if the propeller can be rotated by hand before operation. |
| E11 | The temperature of motor is too high. | Stop operating the machine and wait until the temperature falls within the normal operating temperature range. |

| Code | Cause | Solution |
|------------------------|--|--|
| E12 | The temperature of circuit board is too high. | Stop operating the machine and wait until the temperature falls within the normal operating temperature range. |
| E22 | MCU Communication Abnormality | Please restart to see if the error disappears, if not, please contact your dealer for help. |
| E30 | Throttle position sensor failure, should recalibrate the throttle position sensor. | Please refer to section 4.2.2 <i>Recalibration</i> to recalibrate the throttle position sensor. |
| E56 | Communication Error between machine and battery | Check if the communication cable between machine and battery is well connected, if yes, please restart the system. |
| All characters display | The motor has no power. | Connect the battery to the machine and then turn on the main switch. |



If the problem persists, please consult your ePropulsion authorized dealer for assistance.

b. Warning Messages (Spirit1.0 & Pod1.0 Version)

The following error codes and solutions are applicable only to SPIRIT 1.0 outboard motor and Pod Drive 1.0.

| Code | Cause | Solution |
|------|--------------------|--|
| E01 | Motor Over Voltage | Stop the motor and wait until the error message disappears. If the problem still exists, contact your dealer for repairing. |
| E02 | Motor Over Current | Disconnect the battery and check if the motor is blocked. If not, continue driving at low speed. If this issue cannot be solved, please contact your dealer. |

| Code | Cause | Solution |
|-------------|--|--|
| E03/ E04 | Motor Overheating | Wait a few minutes until the motor cools down and the warning message disappears. |
| E05 | Motor Under Voltage | Indicate the battery level is extremely low. The motor can probably be restarted at lower speed after the message is dismissed. |
| E10 | Motor Blocked | Disconnect the battery and remove anything that is blocking the motor. Make sure the propeller can be rotated by hand smoothly. |
| E20 | Battery Communication Fault | Please check whether the version of Evo Side Mount Control corresponds to the motor version first. If not, please refer to <i>2.4 Version Setting</i> for version switching. If the version is correct, turn off the motor and reconnect the battery cable. If this issue cannot be solved, please contact your dealer. |
| E21 | Motor Communication Fault | Turn off the motor and reconnect the battery cable. If this issue cannot be solved please contact your dealer. |
| E30 | Throttle Calibration Required | Please refer to section <i>4.2.2 Recalibration</i> to recalibrate the throttle position sensor. |
| E51 | Battery Charging Temperature Fault | Make sure the environment temperature is within 0°C to 45°C. Charging will continue when cell temperature is in that range. |
| E54 | Battery Discharging Temperature Fault | Detach the battery and contact your dealer. |
| E55 | Battery Pack Over Voltage | Stop the motor and wait until the error message disappears. If the problem persists, contact your dealer for repair. |

| Code | Cause | Solution |
|-------|----------------------------------|---|
| E56 | Battery Empty | Indicating the battery is empty. The motor can probably be restarted at lower speed after the message is dismissed. |
| E57 | Battery Charging Over Current | Please contact your dealer. |
| E58 | Battery Discharging Over Current | Please contact your dealer. |
| E59 | Battery Hardware Fault | Battery has encountered serious hardware breakdown. Please replace the battery and contact your dealer. |
| Other | Battery Cell Fault | Battery cell fault occurs, please replace the battery and contact your dealer to repair the problematic battery. |



If the problem persists, please consult your ePropulsion authorized dealer for assistance.

c.Warning Messages (Navy3.0, Navy6.0 & Pod3.0 Version)

The following error codes and solutions are applicable only to NAVY 3.0, NAVY 6.0 outboard motor and Pod Drive 3.0.

| Code | Cause | Solution |
|------|--|--|
| E01 | Battery voltage is over the operating range. | Replace a battery based on suggested operation specifications. |
| E02 | Propeller may be blocked, causing motor overcurrent | Please refer to the solution to E10. |
| | Motor fails or circuit board fails causing motor overcurrent | Try to turn off the main power switch and wait for 10 seconds then turn on the switch again. |
| E06 | The battery voltage level is too low. | Operate the motor at low power. Please charge the battery as soon as possible. |

| Code | Cause | Solution |
|------|--|--|
| E10 | Motor stall, which may be caused by blocked propeller | Turn off power, then clean up the things winding around the propeller. Test if the propeller can be rotated by hand before operation. |
| E11 | The temperature of motor is too high. | Stop operating the motor and wait until the temperature falls within the normal operating temperature range. |
| E12 | The temperature of circuit board is too high. | Stop operating the motor and wait until the temperature falls within the normal operating temperature range. |
| E15 | Failure was found in the circuit board temperature sensors. | Try to turn off the main power switch and wait for 10 seconds then turn on the switch again. |
| E16 | Calibration Abnormality of Current Sensor | Please contact the dealer for help. |
| E21 | Driver Communication Fault | Please check whether the version of Evo Side Mount Control corresponds to the motor version first. If not, please refer to <i>2.4 Version Setting</i> for version switching. If the version is correct, check the communication cable connection and restart the motor. If the problem still arises, please contact the ePropulsion authorized dealer for assistance. |
| E22 | MCU Communication Abnormality | Please restart to see if the error disappears, if not, please contact your dealer for help. |
| E30 | Throttle position sensor failure, should recalibrate the throttle position sensor. | Please refer to section <i>4.2.2 Recalibration</i> to recalibrate the throttle position sensor. |

| Code | Cause | Solution |
|------|--|---|
| E40 | System running failure | Please restart the motor. |
| E56 | Communication Error between NAVY outboard and E series battery | Check if the communication cable between NAVY outboard or Pod Drive 3.0 and E series battery is well connected, if yes, please restart the system. |
| E57 | E series battery overcurrent | <ol style="list-style-type: none"> 1. Ensure the paralleled NAVY batteries have similar voltage with pressure difference within 2V. 2. Ensure the power cable and battery are firmly connected to avoid poor contact. 3. Restart the battery when the error occurs and keep the parallel state for 30 minutes to wait for the batteries to self-balance the voltage. 4. If the error occurs, users can also continue operating after restarting the battery, but do not operate at full power state. The operating power is suggested to be lower than two thirds of full power. Please fully charge the battery after use. |

6 Limited Warranty

6.1 Introduction

Congratulations on the purchase of your new ePropulsion Product! We are happy to welcome you to the ePropulsion family! ePropulsion has been deeply involved in the field of marine new energy power for more than ten years, focusing on the research and development, manufacturing and sales of marine electric/hybrid propulsion systems and core components, and has full-chain system integration service capabilities and rich engineering design experience. The main business covers propulsion equipment with a power of 500 watts to 1000 kilowatts, supporting controllers, batteries, main motor remote control systems, energy management systems and smart ship solutions. It is committed to promote the upgrade of marine power systems to new energy and is an industry-leading leader worldwide in marine electric propulsion technology. ePropulsion wants you to enjoy your new ePropulsion product for many years to come and asks you to read and understand the manual before you operate the propulsion to ensure that you follow safe operating practices and maintenance procedures.

This manual should be considered a permanent part of the ePropulsion product and shall remain with it. For correct maintenance, repair and genuine parts, visit an ePropulsion authorized distributor/dealer. Your ePropulsion authorized distributor/dealer is always up to date regarding the latest news and technology and is able to answer all your questions concerning your ePropulsion product. You can locate your nearest ePropulsion authorized distributor/dealer by visiting the website of ePropulsion <https://www.epropulsion.com/contact/find-a-dealer>.

Before installing or using your ePropulsion product, please read and understand this manual and the applicable Operation Manual carefully. If you did not receive an **Operation Manual**, please download a copy from <https://www.epropulsion.com/service/download-center>.

6.2 Limited Warranty

6.2.1 Overview

Guangdong ePropulsion Technology Limited, Room 801, Building 1; 11 Daxue Road, Songshan Lake; CN Dongguan Guangdong Province ("ePropulsion"), provides this Limited Warranty manual to help you take full advantage of your electric propulsion product and its intelligent integrated system product for boats produced by ePropulsion ("ePropulsion Product").

ePropulsion warrants that at the time of shipping, new ePropulsion Products sold by ePropulsion and/or its authorized distributors/dealers will be free from defects in material and workmanship during the limited warranty period specified in Section 2.4. A defect exists if the actual condition of the ePropulsion Product differs from the agreed condition or the published specifications.

This Limited Warranty is applicable in all countries and can be enforced in any country or region where ePropulsion or its authorized distributors/dealers provide ePropulsion Products subject to the terms and conditions set forth in this Limited Warranty. This Limited Warranty is subject to all applicable national export and import laws and regulations.

This Limited Warranty is subject to limitations referred to in Section 2.3 and 2.8.

ePropulsion warrants to the first purchaser who buys the ePropulsion Product to use it ("First Purchaser") that it will make the repairs or replacements necessary to correct defects for the limited warranty period specified in Section 2.4. If the ePropulsion Product is transferred to another purchaser during the limited warranty period, it is suggested that the second purchaser notify ePropulsion in text form (e.g. email to service@epropulsion.com) at the time the second purchaser takes possession of the ePropulsion Product.

Unless expressly stated otherwise in this Limited Warranty, all provisions herein apply exclusively to consumers using ePropulsion Products for recreational use unless otherwise stipulated in Section 2.4 (1) and 2.5. ePropulsion Products used for commercial or professional purposes (with the exception of light commercial use as defined in Section 2.4(2)) are not covered by this Limited Warranty; instead, the statutory warranty in your jurisdiction applies. We recommend consulting an ePropulsion authorized distributor/dealer to clarify the applicable warranty coverage before using the ePropulsion Product for such purposes.

This Limited Warranty does not affect any mandatory statutory rights you may have under the laws of the country in which you have your habitual residence, including any rights or claims you may have under your purchase contract with the ePropulsion authorized distributor/dealer from whom you purchased the ePropulsion Product. The assertion of these statutory rights in the event of defects is free of charge and is not restricted by this Limited Warranty.

6.2.2 Product Registration

ePropulsion Products are Single Products, eSSA System Products and their accessories, as listed in the table below. This limited warranty period applies to all ePropulsion Products and their accessories.

| Product Type | Specific Product Series |
|----------------------|---|
| Single Products | eLite series, Spirit series, Navy series, Pod drive series, E batteries series, accessories |
| eSSA System Products | X series, P eSSA series, I series, G batteries series |

In order to obtain your ePropulsion Product Limited Warranty and to receive quick support for service, parts and technical documentation, ePropulsion strongly recommends that you submit an online product registration via <https://www.epropulsion.com/service/product-registration> within (30) days after you have purchased the ePropulsion Product. The following information is required to register the ePropulsion Product:

- Product Model:
- Product Serial Number (SN):
- Purchase Date:
- Owner Information (Name, Address, Email/Phone):
- Boat Information (Model, Boat Type, Application, Propulsion Type):
- Dealer Information (Dealer Name, Contact Person, Email/Phone)

The benefits of registering your ePropulsion Product include:

- It confirms that you are the legal owner.
- warranty claims can be processed more quickly.
- if necessary, the ePropulsion Service Network can communicate directly with you.
- you have the option to sign up for ePropulsion latest news, keeping you up to date on new ePropulsion Products and features.
- other benefits that are published on the ePropulsion website, including but not limited to warranty extensions (please refer to the ePropulsion website for specific information).

Personal data shall be collected, processed and used by ePropulsion exclusively for the purpose of performing and managing this Warranty Policy, including but not limited to verifying your eligibility for warranty coverage, processing warranty claims (e.g., repair, replacement or maintenance requests for the warranted product), communicating warranty-related information (such as notifications of warranty status, product safety updates or progress of warranty service), and fulfilling other obligations under this Limited Warranty. For detailed information on ePropulsion's personal data protection please refer to ePropulsion's Privacy Policy at <https://www.epropulsion.com/privacy-policy/>.

6.2.3 Important Limitations

This Limited Warranty applies only to ePropulsion Products manufactured by ePropulsion and sold by ePropulsion or its authorized distributors/dealers. It only applies if the ePropulsion Product is installed and commissioned in accordance with the respective ePropulsion Product installation and operation guidelines contained in the user manual and used and maintained in accordance with the respective ePropulsion user manual. **For eSSA System Products, installation and commissioning must be performed by an ePropulsion authorized distributor/dealer.**

If a defect arises within the limited warranty period, ePropulsion may, at its discretion, choose to repair or replace the ePropulsion Product or part. ePropulsion will undertake the repair or replacement without charge for parts or repair labour. Repair labour includes the cost of labour to remove and reinstall the ePropulsion Product and, if necessary to complete the warranty service, to replace the non-ePropulsion Product components of the vessel in which the ePropulsion Product is installed.

Please note that ePropulsion Products are sophisticated and complex machinery that may be affected by many variables associated with their application. As such repairs may require multiple attempts and may take significant time (up to three (3) months) from the date on which ePropulsion or its authorized distributor/dealer confirms receipt of the defective ePropulsion Product. The repairing time shall delete the duration of waiting time includes waiting time because of customer's delay, statutory/public holidays and force majeure.

After the limited warranty period has expired, you can still enjoy maintenance services from ePropulsion authorized distributors/dealers. In this case, service and accessories fees apply. These fees are based on the rates quoted by the ePropulsion authorized distributor/dealer.

6.2.4 Warranty Periods

The limited warranty period begins on the date of receipt of the ePropulsion Product by the First Purchaser. For the **eSSA System Products**, the limited warranty period **begins on the date of commissioning** the ePropulsion Product approved by ePropulsion.

The warranty periods for ePropulsion Products vary significantly based on the nature of their use, namely commercial use and non-commercial use (which encompasses recreational use and light commercial use).

(1) Warranty Periods for Recreational Use

"Recreational use" means the use of the ePropulsion Product for personal leisure, entertainment, or hobby-related activities, without any intent to generate income or profit. This use is limited to the user, their family, or a small group of non-paying friends. For example:

1. using an ePropulsion-equipped boat for a weekend fishing trip with family members, provided that no one is engaged in fishing for commercial sale;
2. participating as a hobbyist in a local, non-competitive boating event, using an ePropulsion Product to power the boat.
 - **Single Products:** Twenty-four (24) months or 1000 hours (whichever comes first) from the date of receipt of the ePropulsion Product by the First Purchaser, or the limited warranty period you obtained when you registered your ePropulsion Product, whichever is longer.
 - **eSSA Products:** Twenty-four (24) months or 1000 hours (whichever comes first) from the date of sea-trial delivery and commissioning. The limited warranty period shall not exceed twenty-six (26) months or 1015 hours (whichever comes first) from the date the First Purchaser receives the ePropulsion eSSA System Product.

(2) Warranty Periods for Light Commercial Use

"Light commercial use" means the use of the ePropulsion Product in activities that are non-profit driven, public welfare oriented, or to support of community-focused initiatives. Such use is usually carried out by non-commercial organizations and may serve public interest, educational or research purposes.

- **Single Products:** Twenty-four (24) months or 1000 hours (whichever comes first) from the date of receipt of the ePropulsion Product by the First Purchaser, or the limited warranty period you obtained when you registered your ePropulsion Product, whichever is longer.
- **eSSA Products:** Twenty-four (24) months or 1000 hours (whichever comes first) from the date of sea-trial delivery and commissioning. The limited warranty period shall not exceed twenty-six (26) months or 1015 hours (whichever comes first) from the date the First Purchaser receives the ePropulsion eSSA System Product.

(3) Warranty Periods for Commercial Use

"Commercial use" means any utilization of the ePropulsion Product in activities primarily intended for generating income or profit or otherwise carried out in support of a business operation. For example:

1. using ePropulsion Product in a commercial fishing enterprise where the catch is sold for profit;
2. incorporating ePropulsion Products into a tour-guiding business that offers paid boating tours.
 - **Single Products:** Twelve (12) months or 1000 hours (whichever comes first) from the date of receipt of the ePropulsion Product by the First Purchaser, or the limited warranty period you obtained when you registered your ePropulsion Product, whichever is longer.
 - **eSSA Products:** Twelve (12) months or 1000 hours (whichever comes first) from the date of sea-trial delivery and commissioning. The limited warranty period shall not exceed fourteen (14) months or 1015 hours (whichever comes first) from the date that the First Purchaser receives the ePropulsion eSSA System Product.

Any ePropulsion Product or part repaired or replaced under the Limited Warranty assumes the remaining limited warranty period or ninety (90) days, whichever is longer. If only parts are replaced under warranty, the 90 days warranty covers the replaced parts only, the ePropulsion Product itself will remain the original warranty period). Any original part of an ePropulsion Product (except for consumable parts) purchased separately by the customer is covered by a limited warranty period of ninety (90) days.

If the ePropulsion Product is transferred to another purchaser during the limited warranty period, the remaining limited warranty period is transferred to that purchaser. The transfer of this Limited Warranty will not extend its duration. Warranty coverage that has not yet expired cannot be transferred to or from a customer using the product for commercial purposes.

6.2.5 Non-commercial Use

The Limited Warranty applies only to ePropulsion Products purchased by consumers and used solely for recreational purposes and not for any commercial application.

Insofar as the ePropulsion Product is used by consumers for light commercial use, the limited warranty shall apply mutatis mutandis, whereby the limited warranty periods in Section 2.4 (2) in this manual shall apply for possible warranty coverage.

6.2.6 Commercial Use

In case of commercial use as defined in Section 2.4(3), any commercial contract (including but not limited to the Product Sales Contract or the Purchase Agreement) entered into between the commercial customer and ePropulsion or its authorized distributor/dealer, the warranty terms in the commercial contract shall prevail over this Limited Warranty, if the commercial contract stipulates warranty terms. For all warranty matters beyond the scope of the commercial contract, the provisions of this Limited Warranty shall apply.

6.2.7 Warranty Procedures

If you believe your ePropulsion Product is defective, you must contact an ePropulsion authorized distributor/dealer within fifteen (15) days after discovering the defect. Your authorized distributor/dealer will provide you with the contact details (name, address and telephone number) of the designated service facility.

You are responsible for transporting your ePropulsion Product to and from the designated service facility. Any delivery or transportation costs incurred in the process shall be borne by you, except where such costs arise in connection with the assertion of your statutory rights under the applicable sales contract. In certain cases, your ePropulsion authorized distributor/dealer may, at ePropulsion's sole discretion and subject to prior agreement, arrange for the inspection and/

or repair to be performed on-site.

The following procedures must be followed to make a warranty claim:

1. Contact your nearest ePropulsion or ePropulsion authorized distributor/dealer. They will inform you whether the defect is covered by this Limited Warranty or their own warranty and provide the contact details (name, address and telephone number) of the designated service facility.
2. Provide proof of first purchase (e.g., receipt or invoice showing ePropulsion Product, date and the serial number) or commissioning (e.g. the form that shows the commissioning date). Product labels must be kept intact. Claims are valid only if the information provided is correct, genuine, and complete. If you have registered the ePropulsion Product on the official website, proof of first purchase or commissioning is not necessary.
3. Use the original box and packaging material of the ePropulsion Product for transport or equivalent packaging and packaging material for sending the ePropulsion Product to the designated service facility. Pack the ePropulsion Product in such a way that any damage caused by improper packaging during transport is avoided (e.g. by using sufficient padding). ePropulsion is not liable for any damage caused by improper packaging during transport. In certain cases, instead of shipping the products back, on-site service will be managed.
4. Keep defective items available for inspection by ePropulsion or an ePropulsion authorized distributor/dealer for the duration of the inspection. You can request the return of the ePropulsion Product. ePropulsion will arrange the return. If ePropulsion replaces the ePropulsion Product or part of the ePropulsion Product, the replacement becomes your property and the ePropulsion Product or the part of the ePropulsion Product that is replaced, becomes the property of ePropulsion.
5. ePropulsion or the ePropulsion authorized distributor/dealer will conduct diagnosis and examination on the defective ePropulsion Product to verify the validity of the warranty claim:

If your warranty claim is accepted, the ePropulsion Product or its defective parts will be repaired or replaced free of charge.

If your warranty claim is rejected, you will receive an estimate for repair/replacement of the ePropulsion Product, including the costs of round-trip delivery. ePropulsion or the ePropulsion authorized distributor/dealer will only begin the work after receiving your written confirmation.

Any action arising hereunder must be commenced within one (1) year after the cause of action accrues, unless you are a consumer, in which case a statutory limitation period of two (2) years applies. Any actions commenced after this period shall be barred.

6.2.8 Excluded from the Limited Warranty

In addition to the other conditions and limitations set forth in Section 2.3, the following items are specifically excluded from any coverage under this Limited Warranty:

1. Ordinary wear and tear (e.g. aging of sealing rings, fading of external appearance, reduction in display screen brightness, battery capacity attenuation, decrease in cruising range; loose interfaces that still enable normal connection).
2. consumable parts (e.g. propeller, anode).

This Limited Warranty does not cover any defect, damage, cost, or consequence resulting from:

1. Use not in accordance with the Operation Manual or intended use described therein. This includes:
 - Wilful abuse, misuse, negligence or accidents,
 - physical damage (including overcharging or over discharging),
 - installation, handling, operation, or maintenance inconsistent with the instructions in the Operation Manual,
 - failure to perform the required maintenance,
 - delay of more than two (2) months in claiming the repair of the ePropulsion Product despite being aware of the defect,
 - racing or engaging in a contest of speed or endurance,
 - use of non-approved attachments, non-genuine parts, or spare parts of non-equivalent quality,
 - incorrect software settings or unauthorized modifications to software,
 - incorrect storage, e.g. long storage resulting in battery failure, dried/cracked rubber components, or corrosion of electrical contacts/connectors,
 - not performing and paying for regular maintenance and failing to maintain records of all service and maintenance,
 - running aground, incorrect propeller matching, or similar operation against the Operation Manual,
2. unauthorized modification, repair or tampering of
 - the ePropulsion Product, accessory, or part (including removal or alteration of the ePropulsion Product label or the serial number),
 - the power, control, or electrical system,
 - service performed by a non-authorized facility,
3. environmental exposure, e.g.
 - rust or corrosion in electrical contacts or connectors,
 - submersion or exposure to unsuitable environmental conditions, such as high humidity, heavy rainfall, seawater intrusion, or freezing of the cooling water,

1. parts and repair costs of failure due to misdiagnosis,
2. damage due to improper packing during transport,
3. repairs outside normal working hours,
4. service-related costs such as installation, disassembly, financing, rental, or similar costs,
5. non-compliance with applicable laws and regulations governing the transport or packaging of lithium batteries (classified as a UN9 hazardous items), and
6. for commercial customers (B2B) only, transporting the ePropulsion Product, part, or vessel in which the ePropulsion Product is installed, to and from the designated service facility (including any haul-out fees or storage fees).

In all warranty claims, ePropulsion will only bear the costs of diagnosing, repairing, or replacing a defective part. In no event shall ePropulsion or ePropulsion Authorized Distributor/dealer be liable for incidental, special or consequential damages. Such damages include, but are not limited to, loss of profits, haul-out fees, launching costs, towing, storage, slip fees, insurance coverage, loan payment, transportation costs, telephone charges, and mileage.

6.3 Miscellaneous

- Except as modified in writing and signed by the parties, and except where a commercial contract expressly provides otherwise, this Limited Warranty is and shall remain the complete and exclusive agreement between the parties with respect to warranties, superseding all prior written or oral agreements, and all other communications between the parties relating to warranties.
- No original equipment manufacturers, boat builders, ePropulsion product installers, distributors, dealers or any other person or entity has any authority to make any representation or promise on behalf of ePropulsion or to modify the terms or limitations of this Limited Warranty in any way, whether orally or in writing.
- This Limited Warranty is subject to German law, excluding the United Nations Convention on Contracts for the International Sale of Goods (CISG). The courts in Germany shall have exclusive jurisdiction. If you are a consumer and have your habitual residence in the EU, you may also bring your claim in the country in which you live and you additionally enjoy the protection afforded to you by the mandatory provisions of the law of your country of residence.

ePropulsion

(*In order to validate warranty, please fill in this form first and read the Warranty Policies.)

|| OWNER INFO. ||

| | | | |
|------------|--|-------|--|
| Owner Name | | | |
| Address | | | |
| Phone | | Email | |

|| DEALER INFO. ||

| | | | |
|------------|--|-------|--|
| Store Name | | | |
| Address | | | |
| Phone | | Email | |

|| PRODUCT INFO. ||

| | |
|-------------------------------|--|
| Date of Purchase (mm/dd/yyyy) | |
| Serial No. | |



Thanks for reading this user manual.

If you have any concerns or find any problems while reading, please don't hesitate to contact us. We are delighted to offer service for you.

Guangdong ePropulsion Technology Limited

Website: www.epropulsion.com

E-Mail: service@epropulsion.com