



TM120A User Manual

TM120A 用户手册



苏州百胜动力科技有限公司

Suzhou Parsun Power Technology Co., Ltd.

Ver:1.03 BLD:20260302

Acknowledgement

Dear customers,

Thank you for purchasing Parsun products. We place great importance on efficiency, safety, and comfort of our products. Before delivery, we conduct rigorous testing to optimize your experience. Before using TM120A, please read this manual carefully to ensure its correct and safe use.

You're seen as having read the contents of this manual after starting using TM120A. Please do not lend TM120A to anyone that has not read this manual. Parsun is not responsible for any accidental losses resulting from the failure in following the operations mentioned in this manual.

This manual will be updated from time to time. Upon discovering that your product does not match the contents of this manual, please do not hesitate to contact us via the official website www.parsunpower.cn, and we will send you a satisfactory reply. This manual is available in multiple languages, so the content may not be exactly the same. Parsun reserves the right to the final interpretation of this manual.

We strive to continuously improve and optimize our products. For any suggestions on our products, please feel free to contact us via the official website at www.parsunpower.cn.

Symbols

When reading this manual, you will encounter legends. Please refer to the following for understanding.



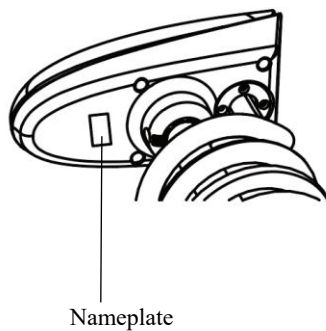
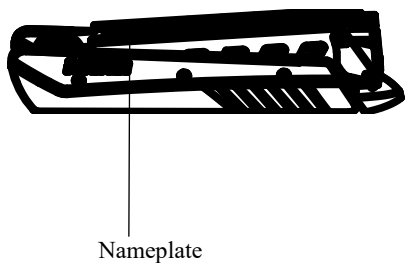
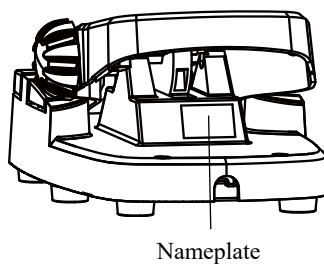
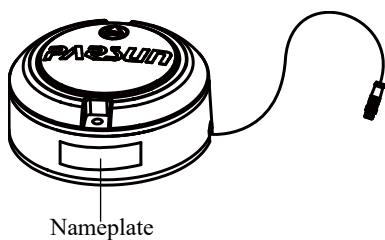
Warnings or special attention



Note

Product SN

The product serial number is printed on the TM120A nameplate and recorded at the S/N location on the nameplate. It assists you in ordering spare parts from your distributor, product warranty, and other after-sales services, and can also serve as a reference in case of theft. Please do not remove the nameplate.



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1 Product overview

1.1 Safety Instructions

TM120A is used for marine propulsion systems and is powered by a battery, thus it is inherently dangerous to some extent. Before using it, please carefully read the safety and warning instructions in this manual. Failure to follow these instructions may result in personal injury or machine damage.

1.1.1 Safety Features

The following are the common security features of this product.

Safety features	Description
Over-current Protection	When the current is too high, TM120A will stop running to protect the motor.
Over-temperature Protection	When the temperature is too high, TM120A will automatically reduce power to protect the motor.
Locked-rotor protection	If the propeller is entangled by debris, TM120A will stop running to prevent damage.
Over-voltage Protection	When the battery voltage is too high, TM120A will be prohibited from starting.
Under-voltage Protection	When the battery voltage is too low, the underwater unit will be prohibited from starting.

1.1.2 Precaution

Battery

The rated voltage of this product is 36V or 24V, and the rated current is 50A. If you are not using the standard battery, please select a battery according to the following parameters.

When TM120A voltage is 36V, choose a battery with a voltage of 31-45V and a continuous discharge current above than 50A.

When TM120A voltage is 24V, choose a battery with a voltage of 20.5-34V and a continuous discharge current above than 50A.

Positioning Accuracy

The precision of position holding may be affected by the following factors:

- In the areas obstructed by the environment, such as valleys, under bridges, or during adverse weather conditions, TM120A's GPS signal may be weak.
- Proximity to high-voltage lines, radar, or metal objects may cause magnetic interference.
- Too high wind speed or too large or complex water current.
- Low battery power, which results in reduced thrust.

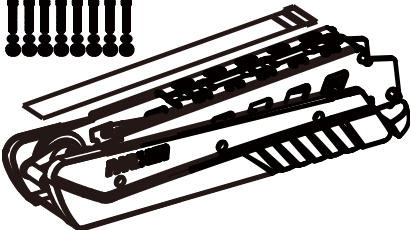
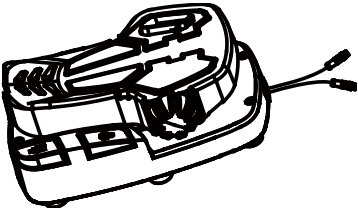
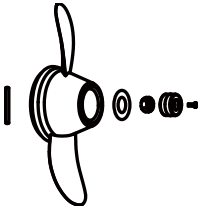
Safety Precautions

- Before use, ensure you are familiar with the basic operations, such as starting/stopping, steering, retracting, and deploying.
- Before use, be sure to check the battery level.
- Before use, ensure that the base screws are securely fastened.
- When operating, do not apply excessive force to the foot pedal.
- Do not use the automatic control function in areas with heavy boat traffic, narrow waterways, poor visibility, or extreme sea conditions.
- When folding or unfolding TM120A, do not place your fingers on moving parts.
- After driving, disconnect the main unit from the battery.
- After driving or operation, stow the TM120A on the deck.
- When connecting the battery, make sure the polarity is correct and the connection is secure.
- Keep the battery terminals clean and free of conductive materials.
- After use in saltwater, rinse the TM120A's surface with fresh water.
- Before installing or removing the propeller, ensure the TM120A has been powered off.

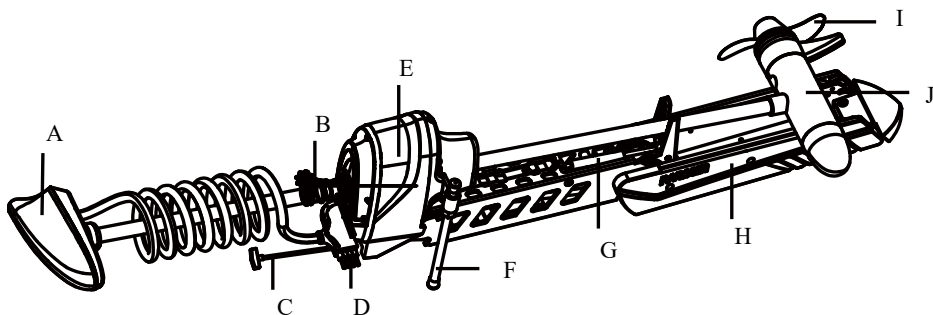
1.2 Packing list

The items in TM120A package are as follows. After opening the package, please check if any item is missing or damaged. If any, please contact your dealer.

Items	Diagram
Main Unit x1 M8*45 Hex Socket Bolt x1 M5*25 Hex Socket Bolt x2 Lock Washer 8 x1 Lock Washer 5 x2	
Heading Sensor x1 4.2*50 self-tapping screws x2	
Gas spring x1 Bushing x1 Sleeve x2 Cross M5 screw x2	

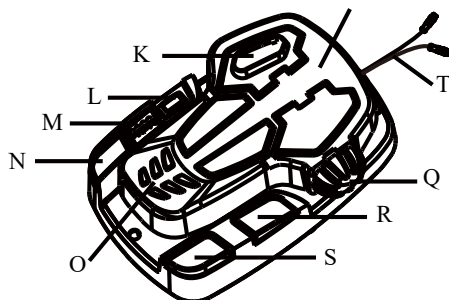
Support Rod M8*20 Hex Socket Screw x2	
Pedal-to-main unit wiring harness x1	
Base x1 Retractable strap x1 Hex socket bolt x8 Flat washer x8 Lock nut x8	
Pedal x1	
Φ4-Pin x1 Propeller x1 Flat Washer 10 x1 3/8 Lock Nut x1 Sacrificial Anode x1 M3*10 Hex Socket Bolt x1	

1.3 Parts



- A** GNSS module
- B** Height Adjustment Knob
- C** Stainless Steel Wire Pull Handle
- D** Power and Communication Harness

- E** Steering mechanism
- F** Support Rod
- G** Gas Spring
- H** Base



- I** Propeller
- M** Indicator Light
- Q** Shift Knob
- K** Momentary Switch
- O** Rear Tilt
- S** Course Lock

- J** Motor
- N** Continuous Switch
- R** Position Hold
- L** Power Switch
- P** Forward Tilt
- T** Pedal & Heading Sensor Interface

1.4 Specification

TM120-A	
Rated Speed	1800 rpm
Maximum Current	40 A
Propeller Diameter/Pitch	235 mm / 115 mm
Shaft Length	50"/65"/75"/85"/100"
Speed	Adjustable
Motor Type	DC brushed motor
Control Method	Pedal, remote control, app
Lift Mode	Manual lift
Motor Waterproof Rating	IP68
Overall Waterproof Rating	IP66

1.5 Declaration of Conformity

Object of the Declaration

Product: Electric Outboard Motor

Model: TM120A-3650S、TM120A-3665F、

TM120A-3665S、TM120A-3675F、

TM120A-3675S、TM120A-3685F、TM120A-3685S、TM120A-36100F、TM120A-

36100S、TM120A-2450F、TM120A-2450S、TM120A-2465F、TM120A-2465S、

TM120A-2475F、TM120A-2475S、TM120A-2485F、TM120A-2485S、TM120A-

24100F、TM120A-24100S、TM120A-3650F



Company name: Suzhou Parsun Power Technology CO., LTD.

Address: 3rd Floor, BLD 2, Block 1, District 3. No.20 Datong Road, SND, Suzhou.
JiangSu, China

This product is hereby declared to be in conformity with the following directives:

EMC Directive (Electromagnetic Compatibility Directive) 2014/30/EU

RoHS (Restriction of Hazardous Substances Directive) 2015/863/EU

RED Directive (Radio Equipment Directive) 2014/53/EU

FCC Part 15 (Title 47 of the Code of Federal Regulations, Part 15): This device must not cause harmful interference and must accept any interference received.

Applicable Standards:

EN 55012:2007

EN 301489-1:2009

EN 303413:2007

EN 301489-17:2020

EN 50663:2017

EN 61000-6-1:2009

EN 301489-18:2022

EN 300328:2019

EN 301489-19:2019

EN 62479:2010

EN IEC 63000:2018

FCC Part 15 “Federal Communications Commission Rules, Part 15”: This device must not cause harmful interference and must accept any interference received.

EU Conformity Statement

Hereby, PARSUN declares that the radio equipment type is in compliance with Directive 2014/53/EU.

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the 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 Parameters

1.RF Function: Bluetooth Low Energy (BLE) Wireless Data Transmission

- Frequency Band: 2402 MHz - 2480 MHz
- Transmitter Power: ≤ 10 dBm (10 mW))

2.RF Function: :GPS L1 C/A, L1C,L5:BDS B1I,B1C: Galileo E1,E5:GLONASS G1

- Frequency Band: L1: 1575.42 MHz; L5: 1176.45 MHz
- Transmitter Power: N/A (Receiver only)

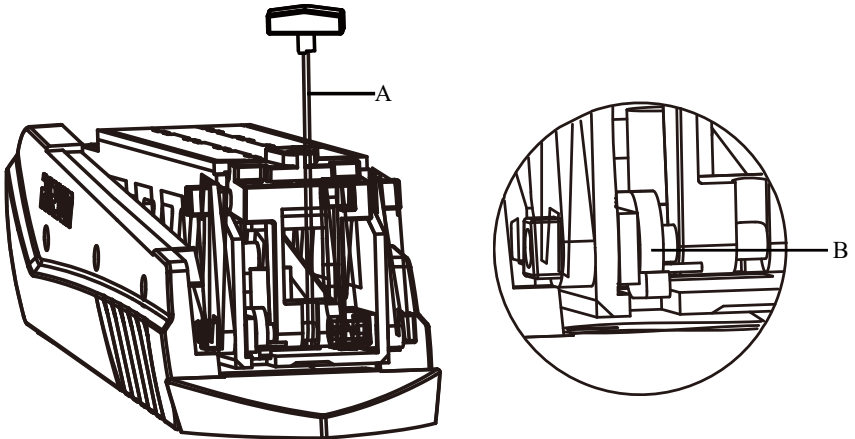
2 Installation

2.1 Open or Close the Base

Push down the secondary latch (B) while simultaneously pulling the pull cord (A) to open or close the base. When the base is attached to the main unit, the secondary latch will be automatically disabled.



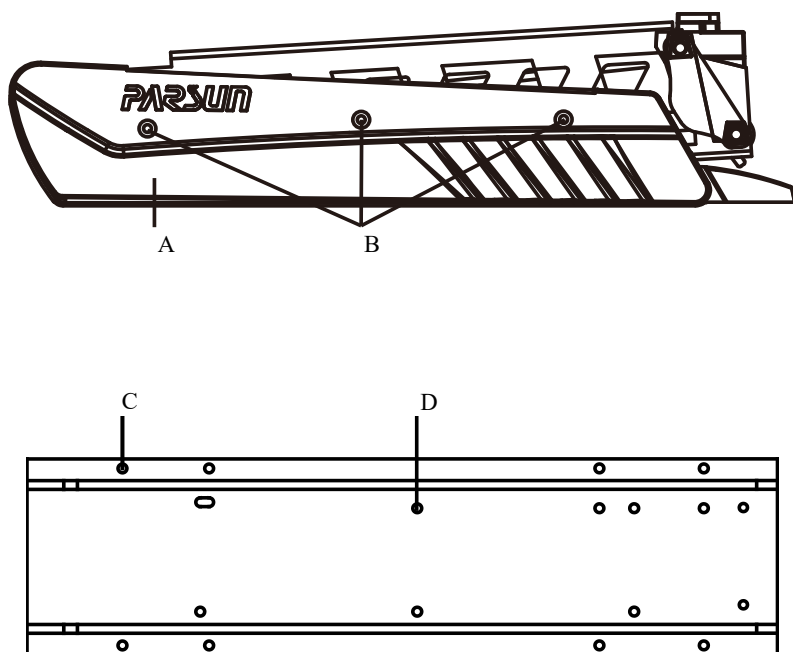
1. Forcibly closing the base without engaging the secondary latch may damage the base.
2. If a gas spring is installed, do not open the secondary latch arbitrarily, as this may generate considerable force and cause the base to open unexpectedly.



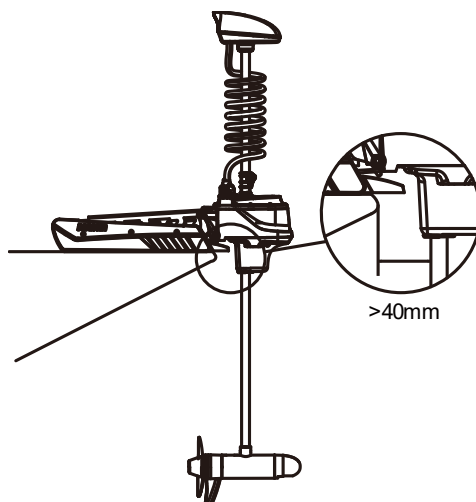
2.2 Install the Base

Remove the six screws (B) securing the left and right decorative panels, then take off the decorative panels (A) on both sides. After removal, the mounting holes (C) on the side of the base will be visible. It is recommended to use the 8 mounting holes on the side of the bracket.

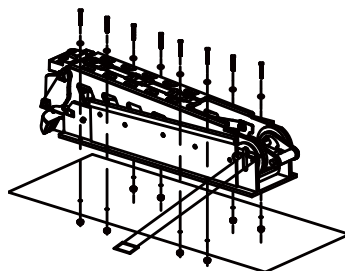
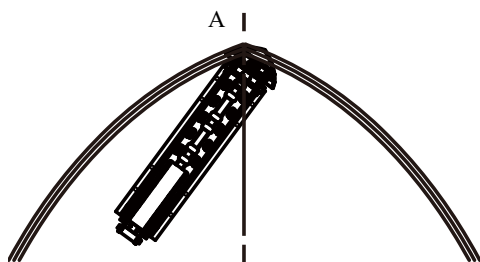
💡 After opening the base, there are also mounting holes (D) in the middle. If necessary, you can use these holes.



When installing the base, ensure that there is a gap of at least 40 mm between the shaft and the upper edge of the ship's gunwale.



Place the base on the ship's deck, aligning the shaft as close as possible to the ship's keel (A) or centerline. For installation, it is recommended to use all 8 screws; if 8 screws cannot be used, use at least 4 screws. For the mounting holes, it is advisable to use the 8 outer holes of the bracket. Retract the strap and place it between the bottom of the bracket and the ship's deck, preferably between the 2nd and 3rd rows of screws. Position the strap's buckle as close to the deck as possible to ensure the maximum bonding area of the strap.

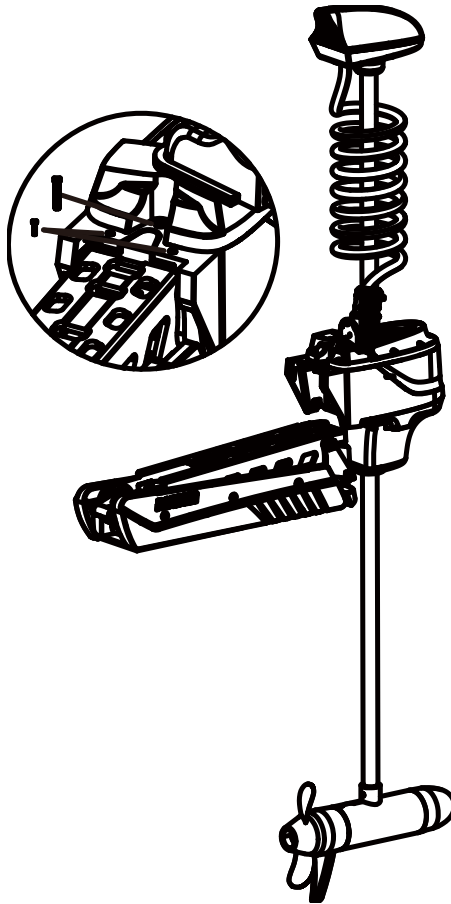


2.3 Install the Main unit

Install the main unit onto the base, then secure it using M5*25 hex socket bolts and M8*45 hex socket bolts.

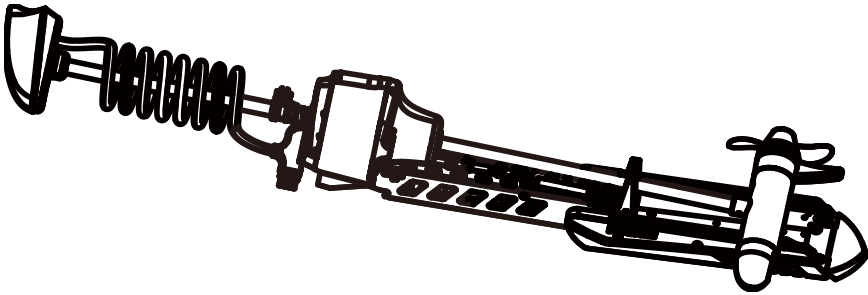
 Before lowering the main unit onto the base, please ensure correct alignment from above.

When installing, pay attention to its position to prevent damage to the TM120A.

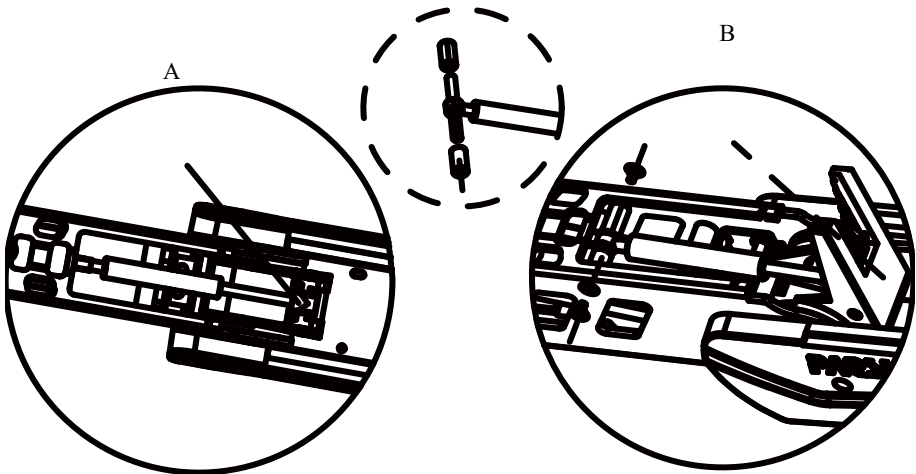


2.4 Install the Gas Spring

Pull the stainless-steel wire handle to fold up the main unit.



Rotate the threaded end of the gas spring to position A, then adjust device B so that the hole at one end of the gas spring aligns with the mounting hole on the base. Next, use the bushing, sleeve, and screw to secure the gas spring to the base.

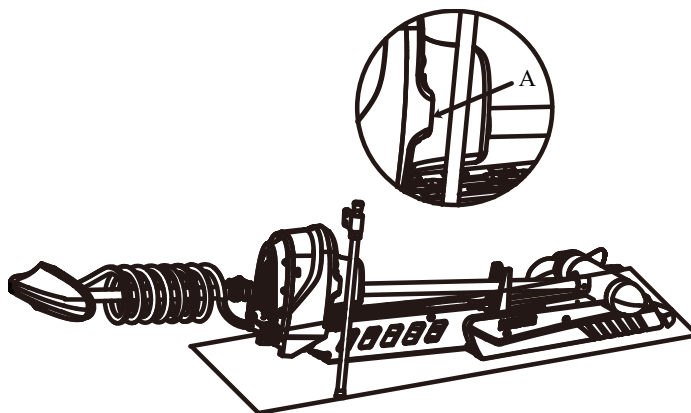


2.5 Install the Support rod

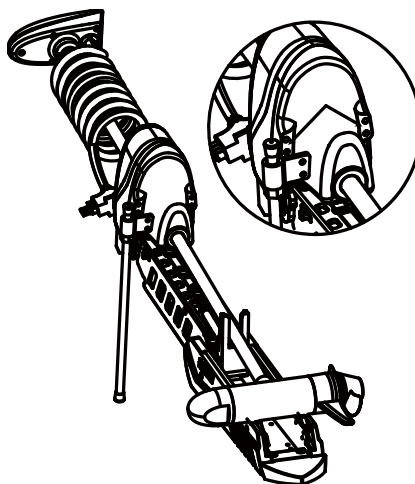
Place the support rod on the ship's deck and align it with the mounting hole (A) on the main unit. Measure the appropriate length of the support rod and then cut it to size. The top of the support rod is also threaded, allowing for fine height adjustments through the threads.



Be sure to install the support rod, otherwise it may cause damage to the base.

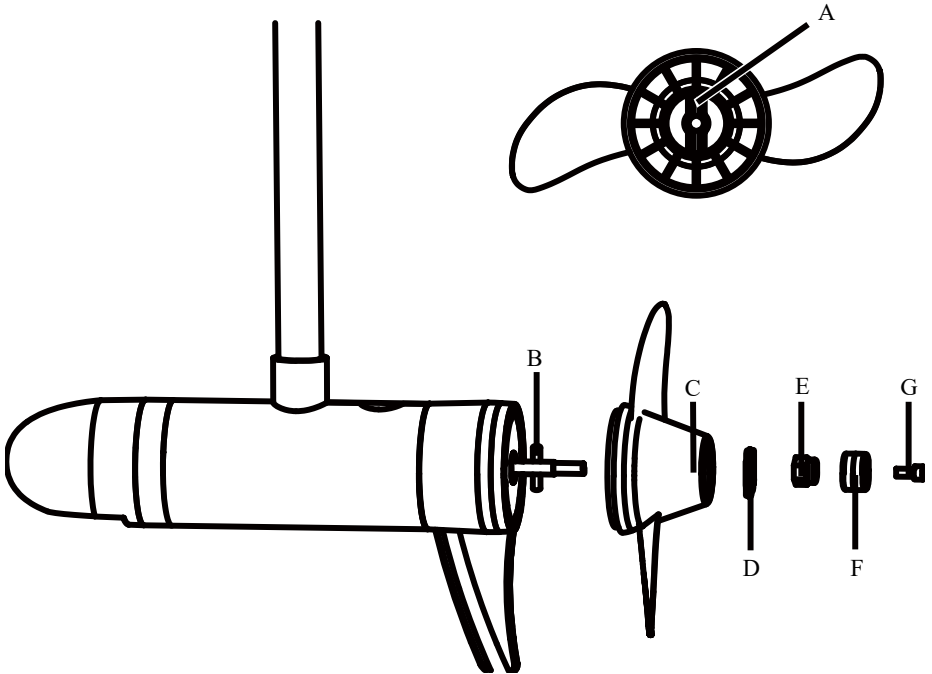


Mounting holes are provided on both the left and right sides for installation as needed.



2.6 Install the Propeller

Install the propeller. Insert pin (B) onto the motor shaft, then align the slot (A) of the propeller with the pin and install it onto the motor shaft. Install the washer (D), locknut (E), anode (F), and screw (G) in sequence.

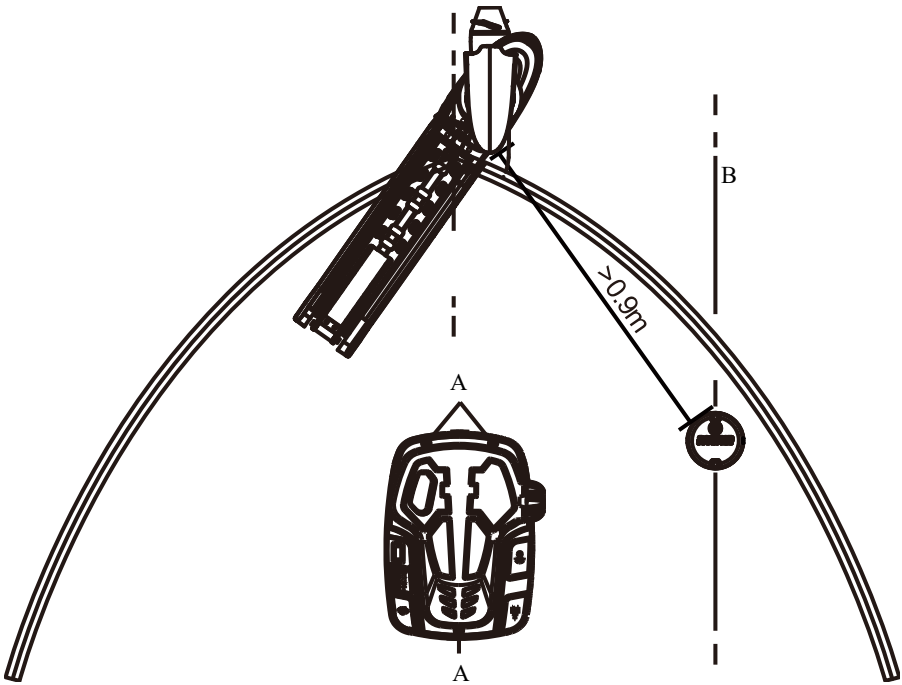


2.7 Install the Pedals and Heading Sensor

There are three holes (A) on the foot pedal, which can be used to secure it to the deck of the boat. Fix it onto the deck to prevent the foot pedal from moving.

The Heading Sensor should be installed horizontally, with the arrow pointing forward and aligned parallel to the keel (B) of the boat; it is preferable to install it close to the keel.

The Heading Sensor should be installed as far away from the machine as possible, at least 0.9 meters (1 foot), to avoid magnetic field interference.



2.8 Wiring Harness Connection

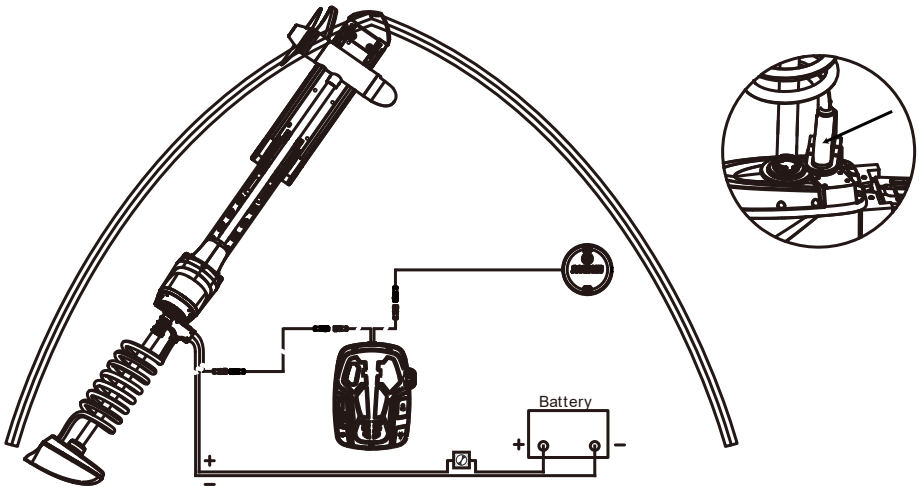
The wiring harness direction of the machine can be changed to either left or right. If needed, simply unscrew the five screws securing the wiring harness to perform the replacement.

Wiring harness connection: Connect the red power cable from the main unit to the positive terminal of the battery, and the black power cable to the negative terminal of the battery. Use the main unit-to-pedal wiring harness to connect the main unit and the pedal, and finally connect the pedal to the Heading Sensor.



It is recommended to add a switch in the middle of the wiring harness.

The rated voltage of this product is 36V and the rated current is 50A. If you do not use the standard battery, please select a battery with a voltage of 32–42V and a continuous discharge capability of at least 50A.



3 Operation

This chapter introduces the operation of TM120A Trolling Motor.

3.1 Folding and Expand TM120A

Expand

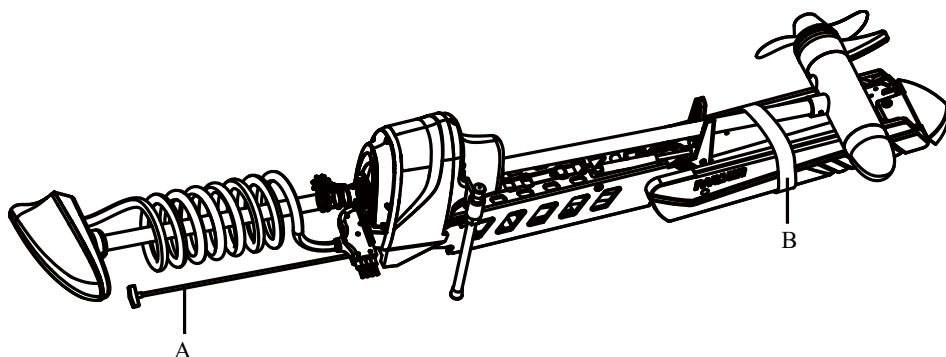
Release and retract the fastening strap (B) and pull the stainless-steel wire handle (A) to unlock from the stowed position; then lift TM120A from the stowed position and tilt it downward until TM120A locks into the deployed position.

 Ensure that the position of TM120A is fully locked when deployed.

Folding

Pull the stainless-steel pull handle (A) to unlock it from the deployed position; then lift the pull wire upward and backward to slowly raise TM120A to the stowed position; use the stowage strap (B) to secure the shaft.

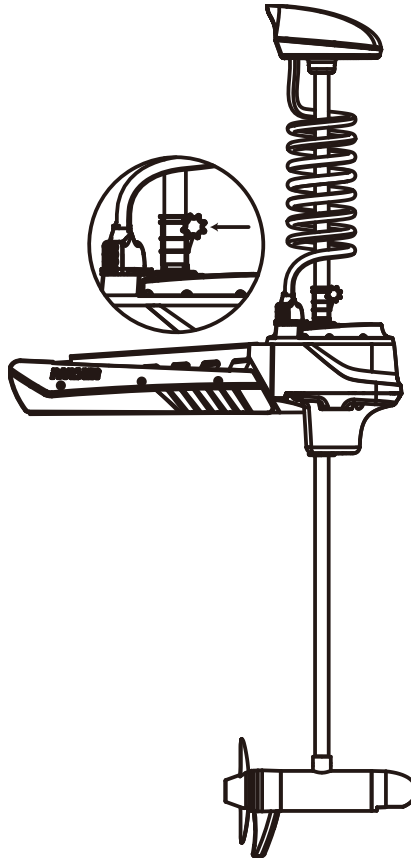
 When retracting, it is recommended to point the propeller toward the deck of the vessel.



3.2 Height Adjustment

Loosen the height adjustment knob, then move TM120A up or down to the desired position, and retighten the height adjustment knob.

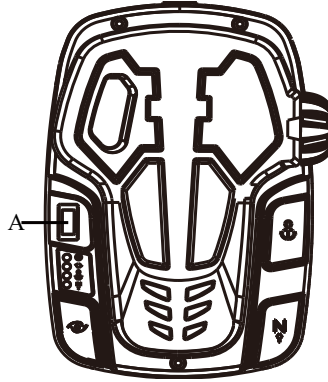
- 💡 When adjusting the height, do not rotate the main shaft; otherwise, recalibration will be required. For calibration, refer to section 3.10 "Steering Calibration."



3.3 Power On and Power Off

Press the power switch (A) on the foot pedal to turn TM120A on or off.

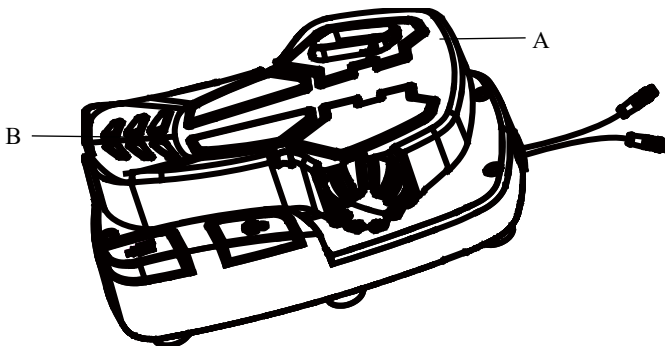
When turned on, the first LED indicator below the switch will light up.



3.4 Steering

Pressing down the front end (A) of the pedal turns the boat to starboard; when fully pressed, TM120A turns 180° to the right.

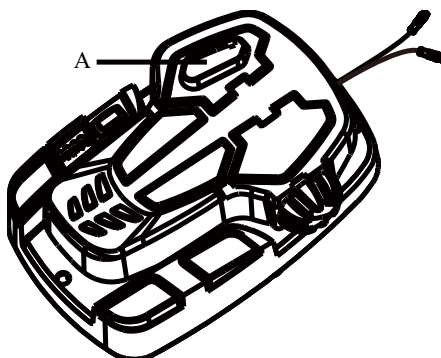
Pressing down the rear end (B) of the pedal turns the boat to port; when fully pressed, TM120A turns 180° to the left.



3.5 Momentary Switch (Start Propeller)

As long as the momentary switch (A) is pressed, the propeller will operate, provided that the speed control knob is not in the OFF position. When the momentary switch is released, the propeller will stop.

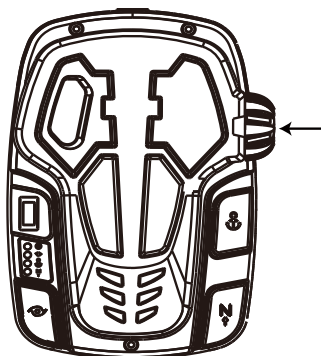
💡 When TM120A is in the retracted position, operation of the propeller is prohibited; do not operate the propeller when it is not underwater.



3.6 Power level adjustment

Rotate the power level adjustment knob to change the settings of TM120A; there are a total of 10 settings, and there is no active setting when it is in the OFF position.

💡 The levels are not linear.



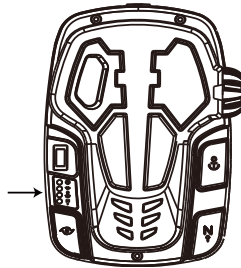
3.7 LED Indicator Light

① Power indicator light: The blue light flashes for overvoltage, the green light is on for high battery level, the yellow light is on for medium battery level, the red light is on for low battery level, and the red-light flashes for undervoltage.

👁 Propeller Indicator Light: The blue light flashes when the propeller is rotating.

🔦 Anchoring Indicator Light: When the anchoring function is enabled, the blue light remains normally on.

N Heading Hold Indicator Light: When the Heading Hold function is enabled, the blue light normally on.



3.8 Continuous switch

After pressing the continuous operation switch, if the speed adjustment knob is not in the OFF position, the propeller will keep running. Press the continuous operation switch again to stop the propeller.

💡 Pressing the momentary switch and any function will disable that function.

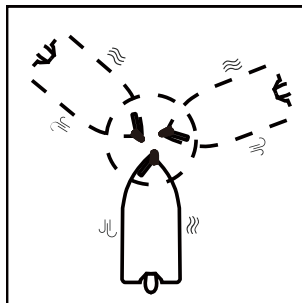
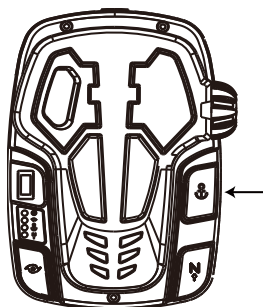


3.9 Anchoring (Electronic Anchor)

Keep the boat in its current position.

💡 Any pedal operation will stop this function.

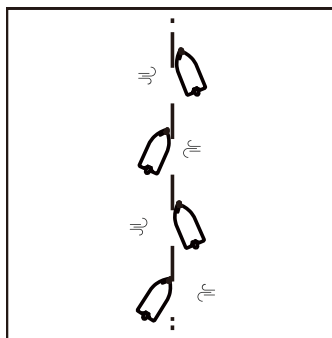
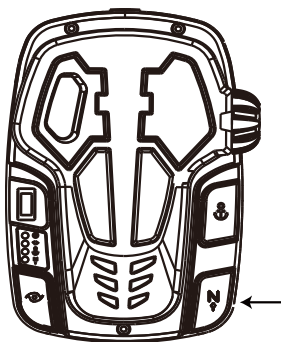
In this mode, the course of the boat will be affected by wind or current.



3.10 Heading Hold

TM120A will plot an invisible route in the direction indicated by the heading. During this period, the boat will automatically follow the route, and the speed can be adjusted using the control knob.

💡 Any pedal operation will stop this function.

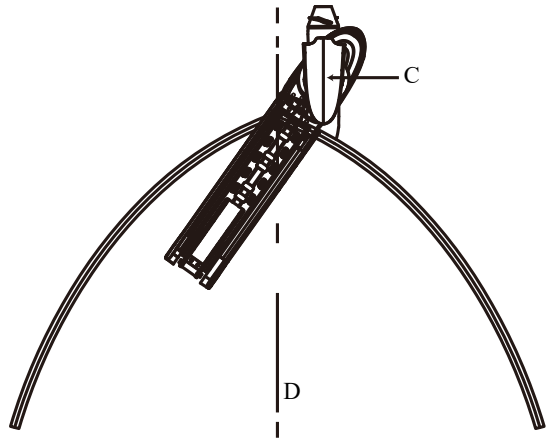
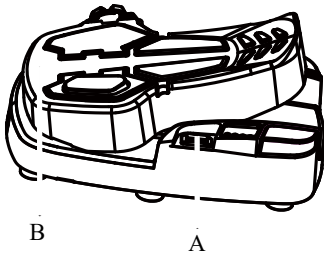


3.11 Steering Calibration

Turn on the power switch (A) on the foot pedal to supply power to TM120A. Adjust the foot pedal to the maximum forward tilt (B), then loosen the height adjustment knob on TM120A. Manually rotate TM120A so that its head (C) is parallel to the keel line of the boat (D) and the head points towards the stern of the boat.



Be sure to perform this operation the first time you use the TM120A, as it will affect the steering control.



4 Fault

4.1 Fault Diagnosis

Fault	Operation
The main unit does not operate	1.Check whether the wiring harness connections of the main unit are normal. 2.Check whether the switch on the foot pedal or wiring harness is turned on. 3.Check whether the battery voltage is normal. 4.Check whether the main unit is in the unfolded state.
The base cannot descend to the correct position	1. Check whether any parts on the base are deformed. 2.Check for any damage at the connection between the main unit and the base.
The foot pedal power switch cannot be controlled	Check whether the switch has been exposed to water; if so, dry it before restarting.
The foot pedal direction does not match the main unit direction	Calibrate the main unit and foot pedal according to the "Steering Calibration" instructions.

4.2 Fault Alarm

Alarm	Fault	Solution
Blue power indicator flashing	Battery Overvoltage	Replace the battery if the voltage is below 45V.
Red power indicator flashing	Battery Undervoltage	Charge the battery in a timely manner or replace it with a fully charged one.
Red propeller indicator normally on	Underwater unit Motor Fault	After the main unit loses power, retract the main unit, check for entanglement, and then restart.
Yellow propeller indicator normally on	Steering Motor Fault	After the main unit loses power, retract the main unit, check for entanglement, and then restart.

Red and blue propeller indicators flashing	Host Offline	First check the wiring, then restart the machine. If the fault still exists, please contact the manufacturer.
Red anchoring indicator normally on	Anchoring Prohibited	Restart the main unit in an open area. If the issue persists, please contact the manufacturer.
Yellow anchoring indicator normally on	No GPS Signal or GPS Fault	Restart the main unit in an open area. If the issue persists, please contact the manufacturer.
Red and blue anchoring indicators flashing	Headset Offline	First check the wiring, then restart the machine. If the fault still exists, please contact the manufacturer.
Red anchoring indicator with one 1 flash and 1 short flash	GPS Abnormality	Restart the machine. If the fault still exists, please contact the manufacturer.
Red anchoring indicator with one 1 flash and 2 short flash	IMU Abnormality	Restart the machine. If the fault still exists, please contact the manufacturer.
Red anchoring indicator with one 1 flash and 3 short flash	Geomagnetic Abnormality	Restart the machine. If the fault still exists, please contact the manufacturer.
Red heading hold indicator normally on	Heading Holding Prohibited	Check if the Heading Sensor is connected properly.
Yellow heading hold indicator normally on	Heading Sensor Self-Check Abnormal	Check the connection cables or contact the manufacturer to replace the Heading Sensor.
Red and blue heading hold indicators flashing	Heading Hold Offline	First check the wiring, then restart the machine. If the fault still exists, please contact the manufacturer.
Buzzer drop-drop long beep	Anchoring distance beyond 10 meters	Wait for the machine to adjust or re-anchor on its own.

5 Maintenance

5.1 Routine Maintenance

Proper maintenance helps extend the service life of TM120A. Please maintain TM120A in accordance with the following regulations.

- Disconnect the battery when TM120A is not in use.
- Store TM120A on deck when not in use.
- Rinse the unit's surface with fresh water after use in a saltwater environment.
- Check whether the base mounting screws are loose.
- Inspect the propeller for scratches, fractures, entanglement, etc.
- Check the wiring harness for any damage to the insulation, breakage, and similar issues.

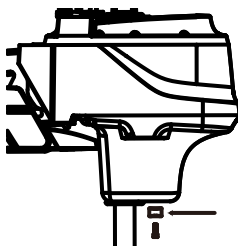
5.2 Maintenance Schedule

Item	Interval	Operation
Terminal	1 week	Check the wire harness electronics for corrosion or dirt.
Stainless Steel Wire Drawing Handle	1 year	Visually inspect for any damage or breakage.
Anode	6 months	Check if the anode has failed.

5.3 Anode replacement

This product is equipped with two anodes. One is located on the propeller; for replacement, refer to "Propeller Installation."

The other anode is positioned beneath the steering device; please replace it by referring to the diagram below.



6 Warranty

6.1 Limited Warranty

Suzhou Parsun Power Technology Co., Ltd. (hereinafter referred to as “Parsun Power”) hereby commits that the product will be free from defects in materials and workmanship within 24 months from its delivery to end customer, as long as it is correctly installed, routinely maintained, and used normally. This warranty is only provided to the first end customer of Parsun Power products. During this period, the customer has the right to request free repair or replacement of defective or non-compliant parts; i.e., “Limited Warranty Period”.

During the warranty period, Parsun Power bears the repair costs directly caused by the product issues and other related expenses (such as costs related to product installation, disassembly, transportation, financing, leasing, etc.) only. Any expenses unrelated to or exceeding the scope of the limited warranty will be borne by the customer. After the warranty period expires, customer can still enjoy repair services provided by Parsun Power and its authorized dealers/distributors (hereinafter referred to as “Parsun Power Service Partners”) by charging the lowest repairing fees.

In addition to the warranty services herein, customers may have statutory rights under the applicable laws of their jurisdiction. The contents specified in the warranty provisions do not affect such statutory rights. Besides the rights granted under the warranty services, customers also have the warranty claim rights pursuant to the purchase contract that they conclude with Parsun Power Service Partners.

The warranty provisions herein do not apply to the products used for commercial or professional purposes (such as the scenarios with a high frequency of use, requiring high reliability or for profitable purpose, even if the machine is such used temporarily). The legal warranty provisions within the local judicial region shall prevail. You are recommended to consult the Parsun Power Service Partners to learn the warranty policies and relevant suggestions before using this product for such purpose.

To ensure that your warranty application can be resolved in a timely manner, please learn and comply with the following guidelines:

- Any warranty claim should be submitted within six (6) months upon discovery. Failure to submit the claim within the time limit above will be deemed a waiver of the warranty, and no warranty service will be provided.

- Keep this product's label intact and record the S/N on its label. Do not remove this product's label. The warranty service does not apply to the products with no original product label.

The warranty service is non-transferable and applies only to the original end customer.

6.2 Exceptions

- The warranty service ceases to apply in any of the following circumstances:
- Improper operation that does not comply with the instructions specified in the user manual.
- Problems caused by accidents, misuse, dropping, falling, improper maintenance or storage, intentional damage, physical damage, overcharging, over-discharging, or unauthorized repairs.
- Water ingress caused by external factors such as fishing nets or prolonged underwater immersion.
- Unauthorized modification, alteration, disassembly, or installation of additional parts (accessories) on the product.
- Damage caused by the fault of any third-party product or any third-party product.
- Consumables are beyond the warranty scope (e.g., propellers, anodes, etc.).
- Products purchased from unauthorized dealers or sellers.
- Normal wear and routine maintenance are not covered by the warranty.
- Further damage occurring during transportation due to improper packaging (beyond the scope of the warranty).
- Lithium batteries are classified as Class 9 hazardous goods under the United Nations. Their shipment and packaging must comply with the relevant regulations of the local country. Non-compliance may result in the failure in enjoying the warranty services.

6.3 Process for applying for warranty (claim)

Customers shall apply for warranty (claim) as per the warranty (claim) procedure.

1. Contact the Parsun Power Service Partners near you. If the relevant faults fall under the warranty scope of Parsun or Parsun Power Service Partners, they will provide further guidance for you.
2. You need to provide and submit the purchase proofs (such as receipt, invoice; product information and purchase date must be included in the proofs), the warranty card, factory serial

number together with the faulty product to the Service Partners. Please make sure that all the labels remain intact. The warranty will only be valid if the above information is accurate, authentic, and complete.

3. Ensure that the product is properly packaged during transportation; it is highly recommended to use the original packaging.
4. The Parsun Power Service Partners will diagnose and inspect the faulty product to verify the validity of the warranty claim.
5. If your warranty claim is approved, the product or the defective components/parts will be repaired or replaced free of charge. Please be noted that all shipping costs incurred during this process will be borne by you.
6. If your warranty claim is denied, the Service Partners will estimate the repair/replacement costs and round-trip shipping fees and send the list of estimated costs to you for confirmation. The Parsun Power Service Partners will not take the following actions until receiving your written approval.

Special notice:

These warranty policies are subject to changes time to time. We will inform our service partners immediately in case of any change. Where necessary, please consult our sales and after-sales person, or local service partners in advance. Thank you!

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