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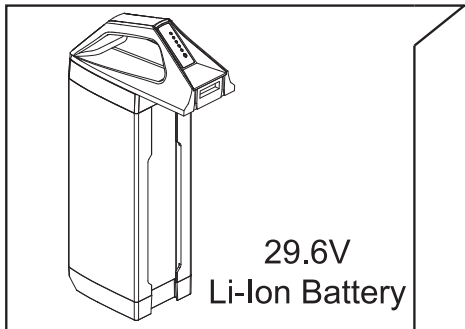
**MAR
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Instruction manual
for 3.0 short & long leg

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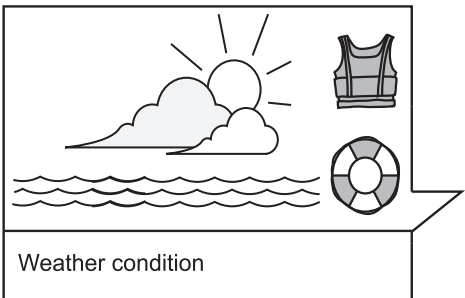
Before the operation



Must use the included 29.6V Li-Ion Battery only .Failure to do so may result a damage causing in the motor or battery.

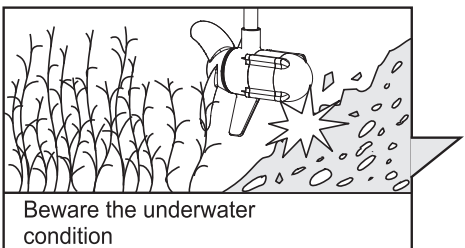


Must use the included DC charger only !



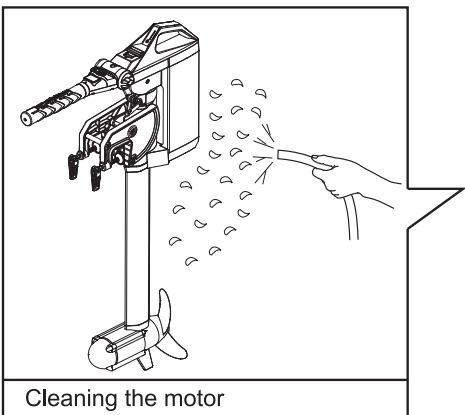
Please make sure the motor is off (handle on neutral), before connecting the battery.

Personal life-jacket is needed at all time. And choose a good weather for your outdoor activity.



Turn the motor off (handle on neutral) to slow down the boat's speed. Tilting the motor to prevent impact when entering the shallow water area.

Beware of the swimmer and your surrounding during the operation.



Remove sundries from the propeller and wash off the motor, especially after the saltwater use.



IP65 , IP68.

IP65 waterproof level for general and battery.
IP68 waterproof level for the motor.

1 Battery and How to charge (figure.1)

⚠ WARNING Must use the included DC charger only.

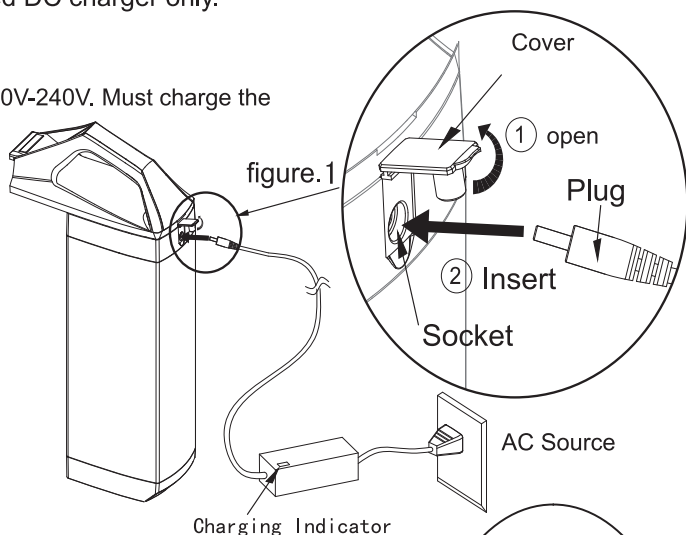
1) How to charge

(AC/100~240V)

The charger input voltage is AC/100V-240V. Must charge the battery when you first to use it.

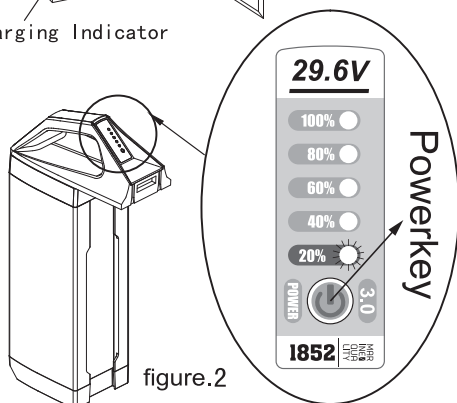
Charging indicator of charger:

- 1.Green flash---standby
- 2.Red on---Charging
- 3.Red flash---Battery error
- 4.Greenu on---Full charged



2) Power reader

The battery has a power reader to display the power level at any time. All lights on indicates a full power charged condition. when you press the powerkey, The lights will go off one by one when the power is continue to decline. Please recharge the battery when reduces to 20% only red on. (figure.2)



2 **⚠ WARNING** Battery information and cautions

- 1.To prevent the battery from failure、over heating、leakage、fire and explosion, be sure to read the instructions before using.
- 2.Note: when the surface temperature of the battery over 50℃, the charger enter into the status of auto- protection and the charging will be cut automatically with a red light flashing。The charger will resume charging automatically with a red light on when the surface temperature of the battery does down blow 40℃.

3. Note: when the surface temperature of the battery up to 75°C, the battery enter into the statue of over-heating auto-protection and the battery will stop outputting automatically. The battery will resume discharging when the surface temperature of the battery does down blow 50°C.
4. Do not disassemble the battery. Do not connect the "+" and "-". Do not throw, hit or violent damage the battery. Keep the battery off the fire, heater or any heating devices so as to prevent the battery being damaged, or under extreme circumstances, causing fire or explosion.
5. When the over heating, odious smells, change of color, or other abnormal signs detected, stop all operating. Cut off the power supply and isolate and keep away immediately from the battery.
6. In case of long period of no operation of the motor, take away the battery and store it at a dry and normal temperature place. For better storage, charge the battery once in 6 months with 60 percent charging.

1 Installing the propeller



WARNING Make sure the motor is disconnected from the battery before installing or replacing the prop.



NOTE Use the propeller wrench supplied or 7mm wrench for the installation. (The use of inappropriate tools may cause motor damage)

1. Install the drive pin into the shaft hole and align it with the propeller (The drive pin and the propeller groove must align horizontally). Once the propeller is in place, install the sacrificial anode, stainless washer and nut into the shaft. (figure.3)

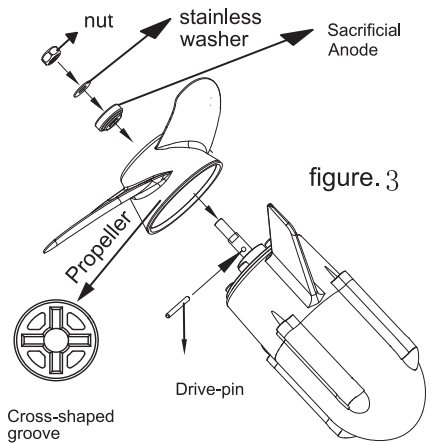


figure.3



NOTE The cross-shaped groove (2 grooves) allow user to reassemble the propeller if one groove is worn off.

2. Hold the propeller to prevent it from revolving and use the propeller wrench to tighten the propeller nut. (figure.4)



NOTE If replace or detach the propeller. Please follow the above instruction steps and procedure it conversely.

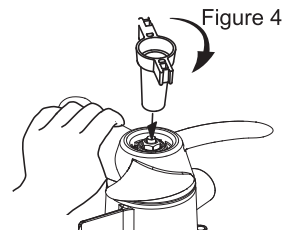


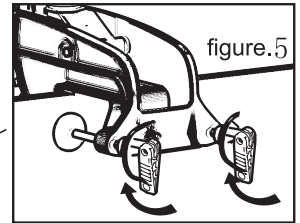
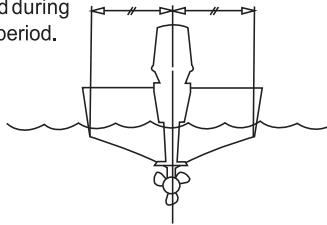
Figure 4

2 Mounting the trolling motor



Make sure the motor is battery disconnected during the mounting and dismounting or onshore period.

Mounting the trolling motor on the centerline of the boat, tighten the clamp screws. (figure.5)

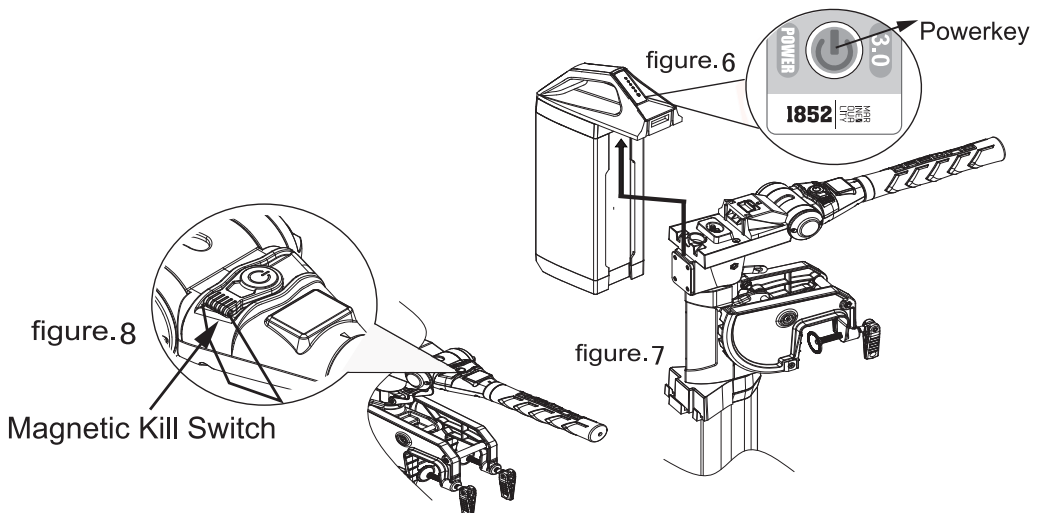


3 Battery connection



Before switching on the battery, make sure that the extendable handle is on "0" position.

Install the full charged battery into the motor **with pressure** as pictured 7. Put the magnetic kill switch on the position of motor as pictured 8. Press the power key to switch the motor power on with 3 "bi" sounds (as pictured 6), at that time, all the lights on power reader will go on. Then you can start to operate the motor. If you don't operate the motor, the all lights on power reader will go off after 90 seconds, at that time, you can still operate the motor with the all lights on again. But, please pay attention: if you don't operate the motor over than 3 hours, the battery will go on to the sleep status automatically, at that time, you can not operate the motor. So you need to press the power key again to restart the operating.



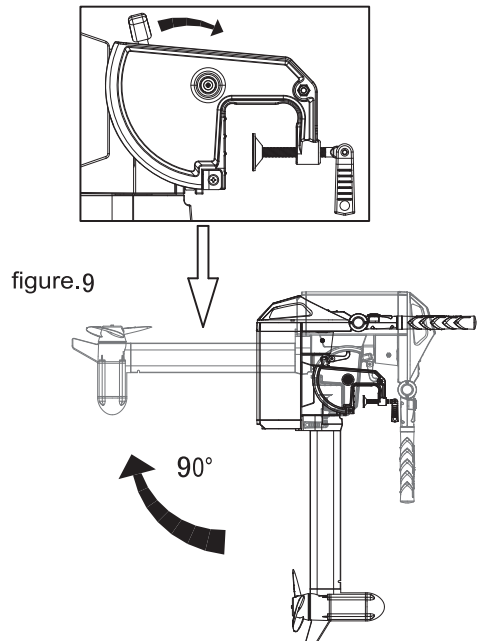
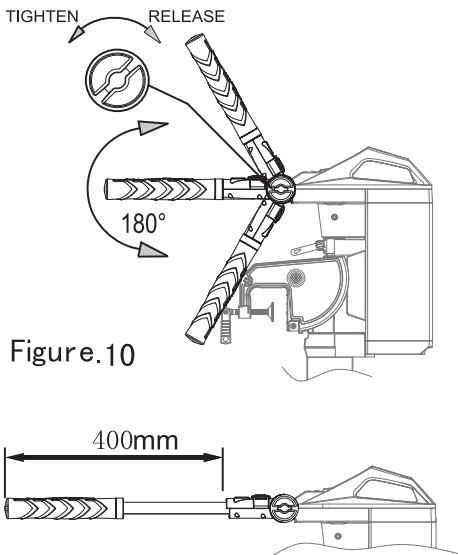
How to operate the motor

1. Tilting the motor

Hold the motor shaft with one hand and depress the tilting lever with other hand. Adjust the motor to a desired angle then release the tilting lever to lock it. (The motor has a 7 tilting levels) (figure 9)

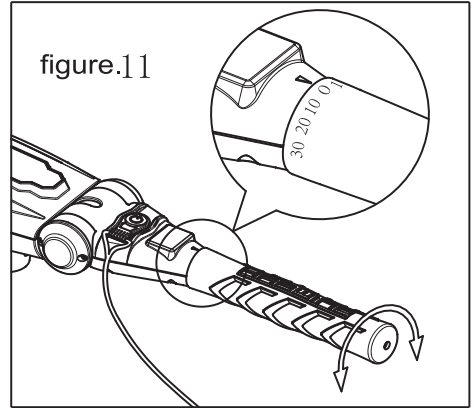
2. Trolling motor handle

This trolling handle has folding telescoping function. Adjust the desired control position simply by pulling and pushing the handle (folding angle: 180°, extended length: 400mm). User can also adjust the folding knob to stabilize the angle position.(Figure.10)



3. Speed control

This motor has stepless speed. There are "0" position mark, Forward mark and Reverse mark on the handle. Motor does not work when arrow aim to "0" position. Turn the handle clockwise from "0" position, motor will go forward, turning range is 90 degree. Turn the handle counterclockwise from "0" position, motor will go backward, turning range is 90 degree. Motor speed changes accordingly when you turn the handle to different angles. (figure.11)

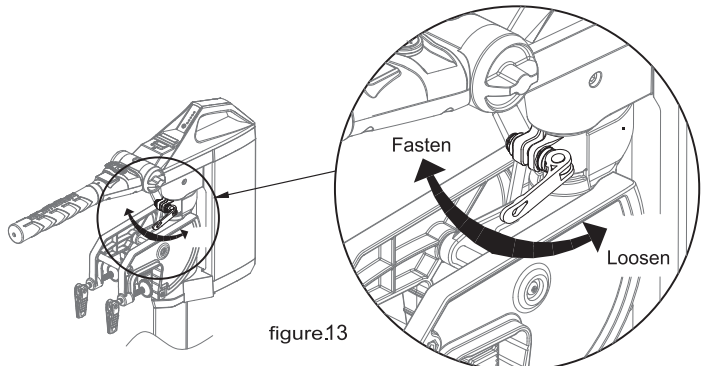
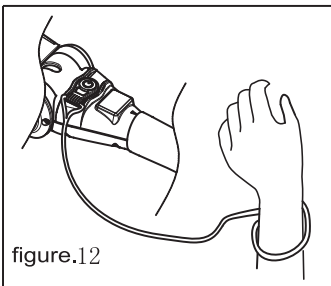


NOTE The speed level has to be "0" position and please to make sure the magnetic kill switch is placed on the correct position of handle as pictured figure 12. when starting the motor.

WARNING NOTE: Please tied the string of magnetic kill switch on the hand for your own safety (figure.12) .

4. Tension the steering

Loosen the steering tension holder, set the motor to the desired direction and fasten it again. (figure.13)



Trouble shooting and solving method

1. Motor fails to run or lack of power

Make sure the motor cable is connected properly.

Check if the cable terminals clean and corrosion free.

Make sure the battery is full . Please recharge it when the battery is empty.

Make sure there is no fishing line or weeds caught up in the propeller. Please detach and clean up the propeller if there is sundries got caught inside the prop. (WARNING : Make sure the motor is disconnected from the battery)

2. Hard to steering

Check if the steering tension screw is loosened.

Clean the motor shaft and apply lubricant to the fasteners and turning parts.

Make sure the underwater condition is fine and nothing blocks the way.

3. Motor vibration

Make sure the propeller is installed properly.

Inspect the propeller and the drive pin conditions, replace it if necessary.

Disconnect the battery cable and examine it by turning the propeller manually, motor shall turn freely with a slight magnetic drag. Internal damage might occur if motor is blocked or locked. Stop use it and contact our customer service.

4. Operation error indication

The motor has an operation error indication function. Motor will automatically stop if operation errors occur, please inspect the following condition:

1

If the power indicator doesn't light and the motor doesn't work, please check if the power cable being well connected. If all the power rate indicators don't light or only the red one lights, and the motor doesn't work, please check the voltage of the battery.

2

There is a voltage protect function in this motor, when it is happened, the motor will not work.

3

Make sure the control handle is on the neutral position. If not please turn it back to the neutral and then will restart the motor.

4

The motor suddenly stops at its current speed, turn the control handle to the neutral position then speed up the motor again. If the motor stop frequently. It means the propeller is blocked and lead to high current protection. Please check if the motor is overloaded or blocked by fishing line or weeds. If yes, please dismount the propeller and wash it.

5. Audio Pattern

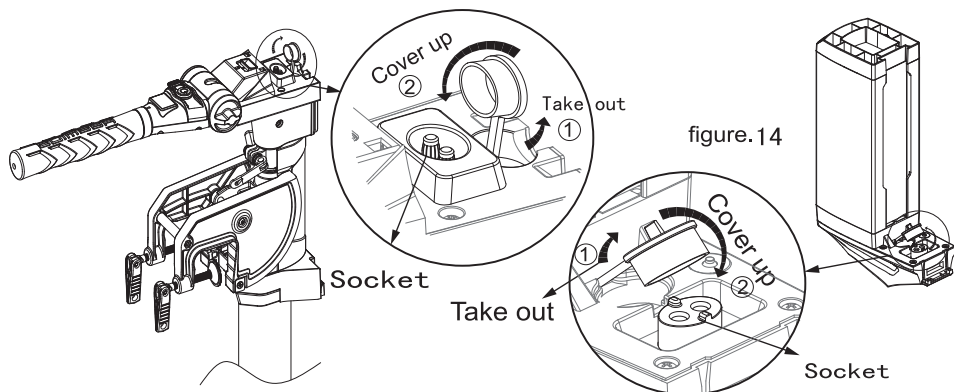
AUDIO PATTERN TABLE

AUDIO PATTERN	CONDITION
3 beeps	System ready
Continuous short beep	<ul style="list-style-type: none"> ● High-voltage protection ● low-voltage protection ● system ready but throttle is not on neutral position
Continuous "fast short" beep	Motor running on high (Amp) current condition
Continuous long beep	Motor stop operation, wait the throttle back to neutral position.

★ For all other malfunctions not listed above, please contact Palby/Flak.

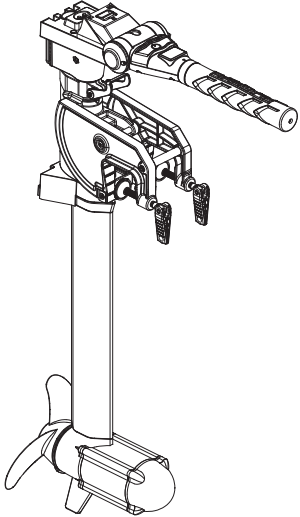
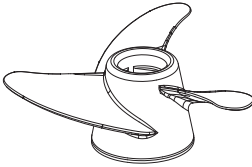
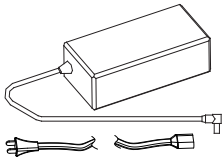
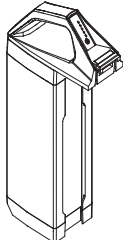

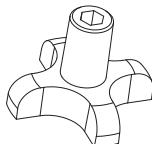
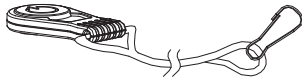

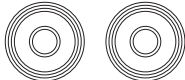


Maintenance

1. Please take out the both socket covers from the battery and trolling motor to cover up the both sockets for protection after every use.(figure.14)



2. Please wash and clean the motor and propeller intensively after use as per manual, caused by improper use of surface corrosion or damage to the motor is not covered by the warranty. (Refer to P.2)
3. Clean up all the sundries on or inside the propeller after every use. (Please see P.2 “cleaning the motor”)
4. Apply lubricant to the turning parts regularly and use proper tool to fasten the parts.
5. Apply rust prevention to the cable and battery terminals after every use.
6. Store the motor in a good ventilated place and keep it dry.
7. To avoid hazards, do not use the motor in the intricate water.
8. Do not crash or put heavy things on top the motor.
9. This motor is designed for outdoor amusement only. Continuous long distance transport is not permitted.

Packing List

<p>Trolling Motor</p> 	<p>Propeller</p>  <p>1PCS</p>	<p>DC Charger</p>  <p>1PCS</p>
<p>Li-Ion Battery</p>  <p>1PCS</p> <p>Battery is separately packed</p>	<p>Owner's Manual</p>  <p>1PCS</p>	<p>Propeller Wrench</p>  <p>1PCS</p>
<p>Magnetic kill switch</p>  <p>1PCS</p>	<p>Drive Pin</p>  <p>2PCS</p>	<p>Sacrificial Anode</p>  <p>2PCS</p>
	<p>Nut</p>  <p>2PCS</p>	<p>Stainless washer</p>  <p>2PCS</p>



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