



**X-Treme™ Electric Scooters**

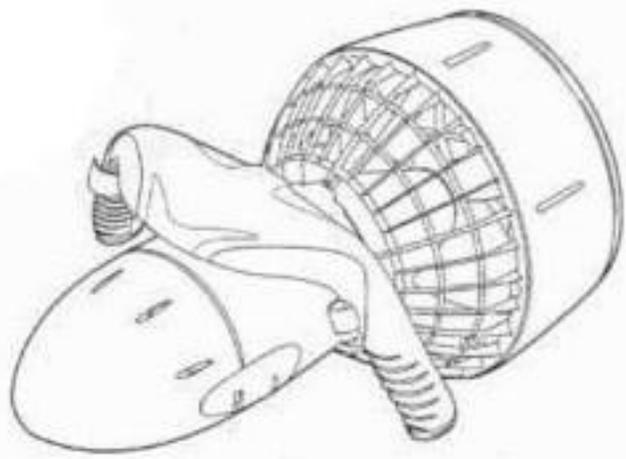
**X-160**

**Sea Scooter**

**User Manual**



# USER MANUAL



SEA SCOOTER

Read through carefully and understand these instructions before operating the scooter.

## DO NOT RETURN TO STORE!

Do not use this sea scooter for the first time until you have completely read this manual thoroughly. Failure to follow these instructions may damage your sea scooter and void your warranty.

For technical support or warranty issues

CALL OR GO ONLINE

1-253-777-0690

[www.x-tremescooters.com/support/](http://www.x-tremescooters.com/support/)

# TABLE OF CONTENTS

Introduction.....	4
Parts Diagram.....	5
Warnings.....	6
Getting Started.....	7-8
Using the Sea Scooter for Swimming or Snorkeling.....	7
Use of Variable Speed.....	7
Using the Sea Scooter for Diving – Adjusting the Buoyancy.....	8
Battery Use.....	9-11
Charging the Battery.....	9-11
To Replace A Flat Battery With A Fully Charged Battery.....	11
Care & Maintenance.....	12
Battery Care.....	12
Care After Using the Sea Scooter.....	12
Troubleshooting.....	13-15
Unit Does Not Function.....	13
Blocked Propeller.....	13
Removing the Fan Shroud To Remove An Obstruction.....	13
Removing the Fan Guard And Propeller To Remove Obstruction.....	13-14
Sand or Grit On Seals.....	14
Sea Scooter Cuts Out.....	15
Accidental Flooding.....	15
Wiring Diagram.....	16

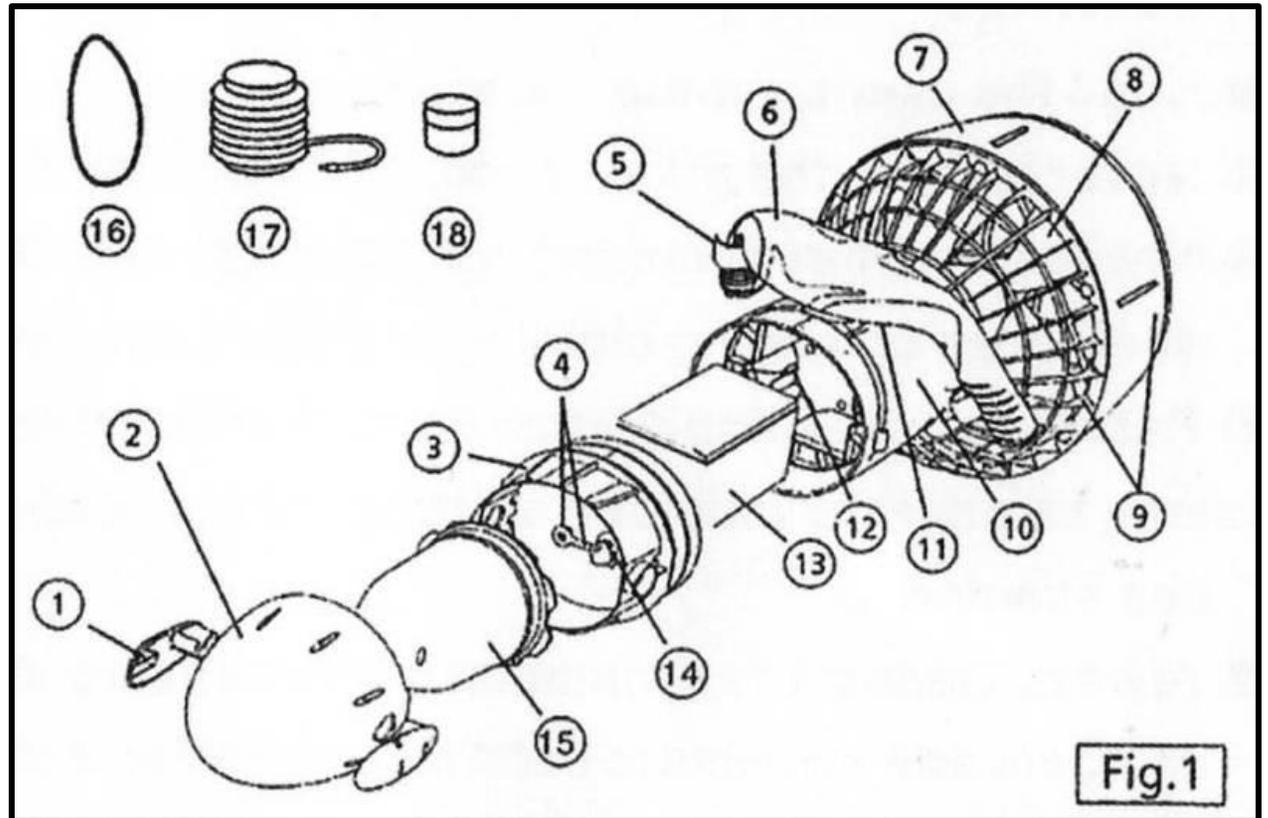
## **INTRODUCTION**

Thank you for choosing your X-Treme X-160 Sea Scooter. This new design in personal water propeller will give you twin speed power for up to 4.8km/hr for up to 90 minutes of use at a depth of 30 meters while at the same time still being light and compact.

There are many features incorporated in this design so please read this manual thoroughly to be sure you learn and get the most out of your X-Treme Sea Scooter.

## PARTS DIAGRAM

1. Latch
2. Nose Cone
3. Inner Nose Cone
4. Vent Plug
5. Triggers
6. Handle
7. Nozzle
8. Propeller
9. Fan Shroud & Fan Guard
10. Battery Housing
11. Master Switch
12. Battery Leads
13. Battery
14. Vent Hole
15. Buoyancy Control Chamber
16. Silicone Ring
17. Pump
18. Lubricant



## **WARNINGS!**

- Read the user's manual carefully.
- Never remove the Fan Shroud or Fan Guard except for maintenance.
- Never stick body parts, clothing or other objects in the vicinity of the Propeller. Do not wear loose or flowing clothing or equipment that could be drawn into the Propeller.
- Particular care should be exercised when using the sea scooter near anybody with long hair. Users with long hair should tie it up in a ponytail or wear a swim cap when using the sea scooter.
- Always inspect the swimming area to ensure it is free of hazards or obstacles such as boats and swimmers before using the sea scooter.
- Always charge battery to its fullest before using the sea scooter. Ensure sufficient battery charge remains for return to shore or surface.
- Always wear a cost guard approved personal floatation device when using the sea scooter.
- Be aware of appropriate water levels, tidal changes, dangerous currents, weather changes and strong offshore winds. Always scout unfamiliar water.
- Do not use alcohol or mind-altering drugs prior to using this product.
- ALWAYS keep the sea scooter out of direct sunlight when not in use. HEAT KILLS BATTERIES.
- When using the sea scooter for SCUBA, ascents and descents should be made in accordance with recognized diving practices.
- The sea scooter should only be used for SCUBA by qualified divers.
- Always follow this age recommendation: a child under 16 years old should never operate this sea scooter.
- Never open the Cover of the sea scooter under water.
- When not in use, always turn the Master Switch to the OFF position.
- Do not use the sea scooter below the recommended maximum depth of 30 meters.

## GETTING STARTED

When you buy the sea scooter the battery is disconnected and needs to be charged. Follow the instructions on page 9 – Battery Use, Charging the Battery – for charging and connection.

### Using the Sea Scooter for Swimming and Snorkeling

When swimming or snorkeling the sea scooter should be kept positively buoyant – this is done by simply making sure the Buoyancy Chamber is empty and fitted inside the Nose Cone.

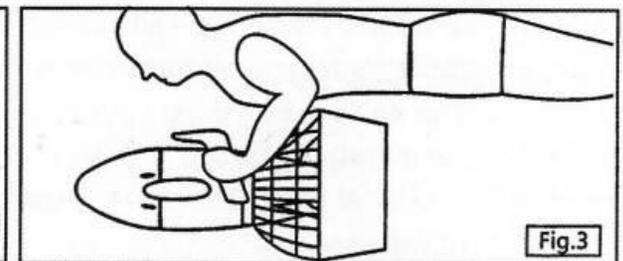
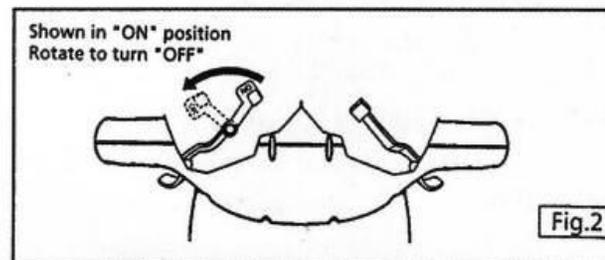
To use the sea scooter for swimming or snorkeling follow these instructions.

1. Charge the battery – see page 9 for instructions. Make sure that when you finish charging the battery the Vent Plug is closed.
2. Place the sea scooter into the water so the Handle, Outer Nose Cone and Nozzle fill with water.
3. When ready to set off, switch the Master Switch to the ON position shown in Figure 2.
4. Pull and hold one or both Triggers to start the Propeller.
5. To stop the Propeller, simply release the Trigger.
6. Always turn the Master Switch OFF when out of the water.
7. Proper posture when using the sea scooter is important to achieve the maximum speed – see Figure 3 for the correct position of the sea scooter when using it.

**CAUTION:** Do not dive deeper than you would normally when snorkeling to ensure you can get back to the surface safely.

### Use of Variable Speed

Your sea scooter features two speeds – for normal speed, pull the right trigger only. For the higher speed, pull both triggers together.

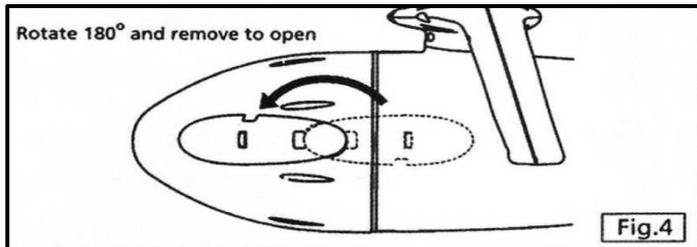


## Using the Sea Scooter for Diving – Adjusting the Buoyancy

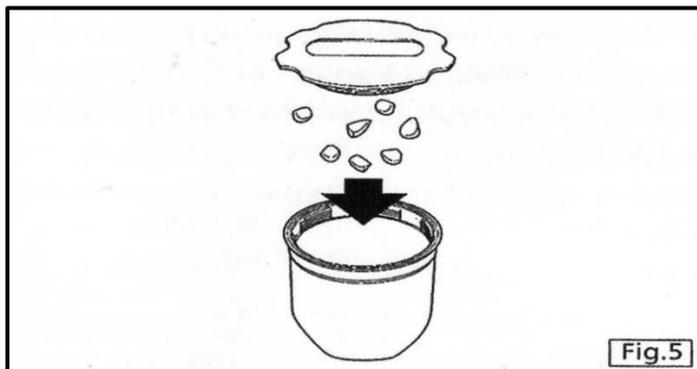
Your sea scooter can be used for diving up to 30 meters but will need to be adjusted for neutral buoyancy. The sea scooter must never be adjusted for negative buoyancy to avoid it from sinking if accidentally released.

To adjust the neutral buoyancy, follow these instructions.

1. Make sure the sea scooter Master Switch is in the OFF position.
2. Remove the sea scooter from the water, give a half turn to turn the Latches, remove them – see Figure 4 – and remove the Buoyancy Control Chamber.
3. Open the Buoyancy Chamber and add a small amount of rocks or a lead weight – see Figure 5.
4. Replace the Buoyancy Chamber, Nose Cone and Latches and place the sea scooter in the water. If the sea scooter is neutrally buoyant it will just float in the water.
5. If the sea scooter sinks, remove rocks until it is neutrally buoyant. If the sea scooter is still positively buoyant repeat step 3 until it is neutrally buoyant.



**CAUTION:** If the sea scooter is later used for swimming or snorkeling be sure to remove the weight from the Buoyancy Chamber so the sea scooter has positive buoyancy.



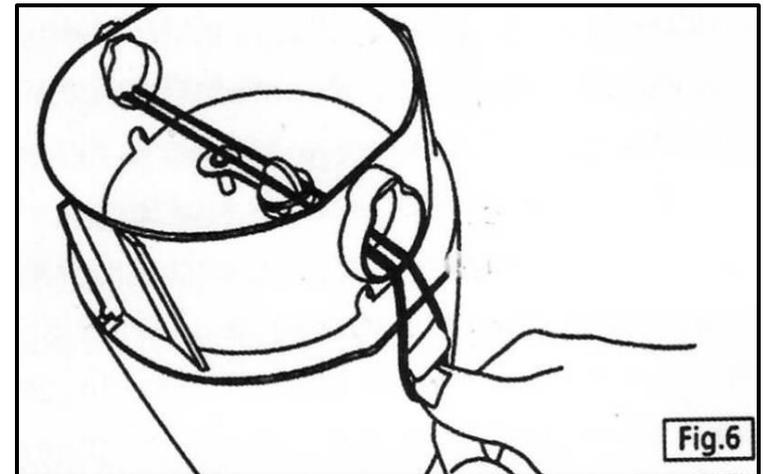
## BATTERY USE

- The Battery Housing should always be ventilated during charging to allow potentially explosive gasses to dissipate. Before removing/attaching any battery cables always allow two minutes for any gasses to dissipate.
- ALWAYS plug the charger jack into the charging socket first and then plug into the mains. When charging is complete, unplug the charger from the mains first and then from the charging socket.
- ALWAYS ensure the charger socket is DRY before plugging in a live charger.
- NEVER place a battery in a sealed container when charging.
- NEVER charge the battery near water.
- If in doubt of the state of the battery, recharge it until the indicator on the battery charger indicates full charge.
- ALWAYS charge the battery in a well-ventilated place where it is out of reach of children.
- ALWAYS ensure the unit is dried thoroughly before opening the Nose Cone for charging or changing the battery.

## Charging the Battery

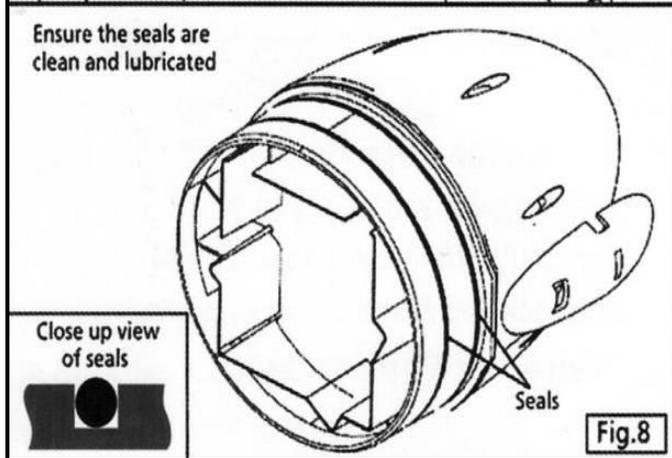
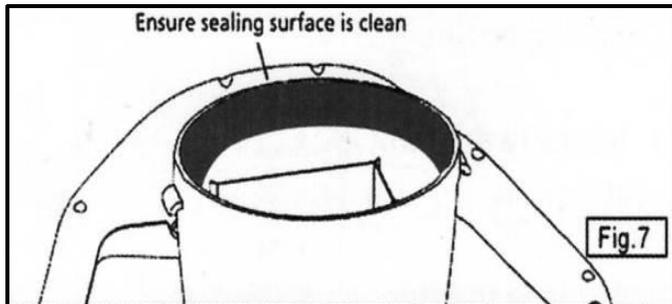
For charging the battery, follow these instructions.

1. Always ensure that the Master Switch is OFF – see Figure 2.
2. Always ensure that the sea scooter is out of the water and placed in a dry area.
3. Give a half turn to the Latches and remove them from the Nose Cone as shown in Figure 4.
4. Remove the Outer Nose Cone and Buoyancy Control Chamber.
5. Open the Vent by unscrewing the Vent Plug.
6. Remove the Inner Nose Cone. To do this, first feed the silicone ring (provided with this manual) through the latch holes in the Inner Nose Cone and hook over the hooks on the Battery Housing – see Figure 6. Then screw the Pump Nozzle onto the Vent Hole and pump air into the Battery

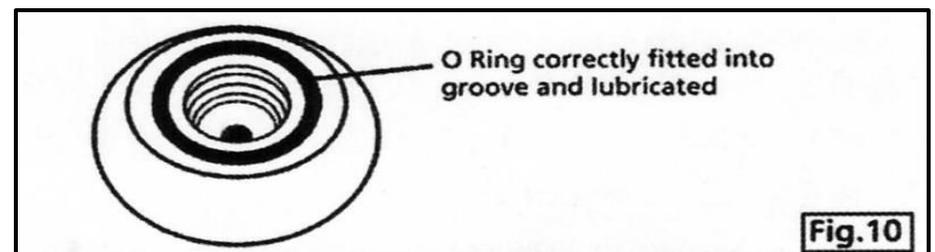
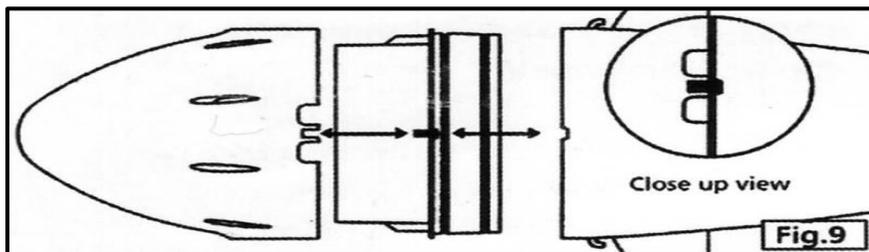


Chamber until the Inner Nose Cone pops off and then remove the silicone ring.

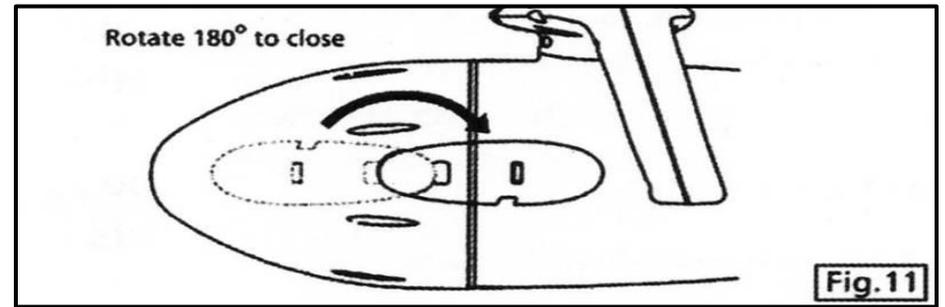
7. Allow two minutes for any gasses to dissipate.
8. Disconnect the battery cable from the housing cable (if not already disconnected – the cable will be disconnected when you remove your sea scooter from the carton after purchase) by pressing the locking feature.
9. Connect the battery cable to the charger cable.



10. Plug the charger into the mains and turn on the supply. Do not replace the Nose Cone.
11. Charging will take 4 to 6 hours for a fully discharged battery. When the battery is charging the LED charger light remains on, when the battery is charged the LED flashes.
12. Unplug the adapter from the mains.
13. Unplug the battery cable from the charger cable and reconnect to to the Housing Cable.
14. Make sure the seals and sealing surfaces are clean and lubricated before placing the Inner Nose Cone – see Figure 7 and 8.
15. Replace the Inner Nose Cone making sure the key is aligned correctly. See Figure 9.
16. Ensure the Vent O-Ring is fitted correctly. See Figure 10.
17. Screw in the Vent Plug to seal the vent.
18. Replace the Buoyancy Control Chamber.



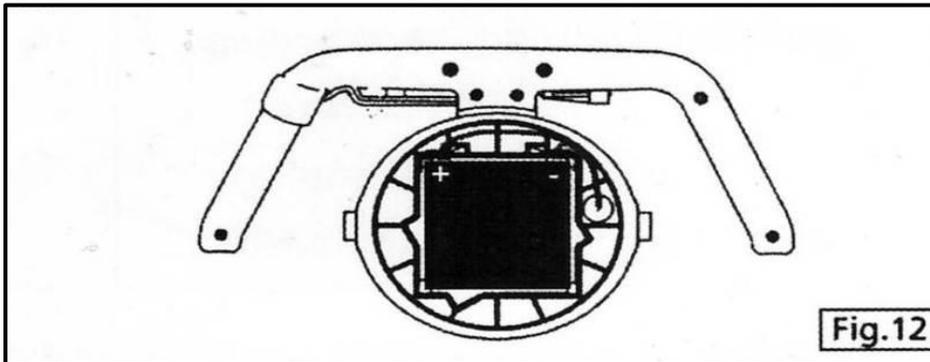
19. Replace the Outer Nose Cone making sure the key is aligned correctly and insert the Latches and lock the Nose Cone by giving it a half turn. See Figure 11.



Note: To charge a battery outside of the unit, simply connect to the charger then plug the charging adapter into the mains. When the battery is charged, unplug the adapter first then the battery.

### To Replace A Flat Battery With A Fully Charged Battery

1. Follow steps 1 through 6 on page 9 to open the sea scooter.
2. Unplug the battery at the socket by pressing the locking feature shown in Figure 7.
3. Remove the flat battery.
4. Install and connect the charged battery in the correct position – the leads of the battery must be oriented as shown on the sticker on the battery – see Figure 12.
5. Follow steps 14 through 19 on page 10 to close the sea scooter.



### Buying Batteries

Additional standard or extended batteries can be purchased separately. Contact your dealer or contact us at X-Treme directly to purchase.

# CARE AND MAINTENANCE

## Battery Care

- The battery should be recharged as soon as possible after each use.
- If the unit is not used for extended periods, the battery should be removed from the unit and charged overnight every three months.
- Only use the charge supplied with the sea scooter. Replacements can be purchased from your dealer or direct from us at X-Treme.
- Never place the battery in a sealed container when charging.
- Never place or store the battery near a radiator, fire, etc.
- To store the battery, remove it from the sea scooter or separate it from the charger, insulate the battery terminals and keep in a place that is cool and dry.
- Ambient temperature for storage should be within the range of 32° F to 77° F (0°C to 25° C).

## Care After Using The Sea Scooter

- Always rinse the sea scooter in fresh water and allow it to dry before storage.
- Whenever possible, rinse the sea scooter in fresh water immediately after use.
- To clean the sea scooter do not use detergents. Only use a damp cloth to wipe the unit clean.
- The Battery Housing interior should be kept dry at all times.
- If the Battery Housing interior ever gets wet, see page 15 – Accidental Flooding – for procedure.
- When storing the sea scooter for extended periods of time, open the Vent Plug in the Inner Nose Cone.
- ALWAYS store your sea scooter vertically when not in use to prevent deformation of the Propeller Nozzle.

# TROUBLESHOOTING

## Unit Does Not Function

If the motor does not start when both triggers are pressed, make sure:

1. The battery is properly connected.
2. The battery is fully charged (see page 9 – Charging the Battery).
3. The Master Switch is in the ON position (see Figure 2 – page 9).
4. There is no water in the battery compartment (see page 15 – Accidental Flooding).

## Blocked Propeller

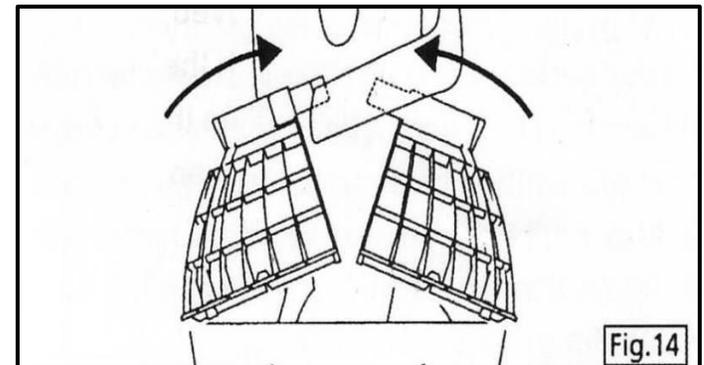
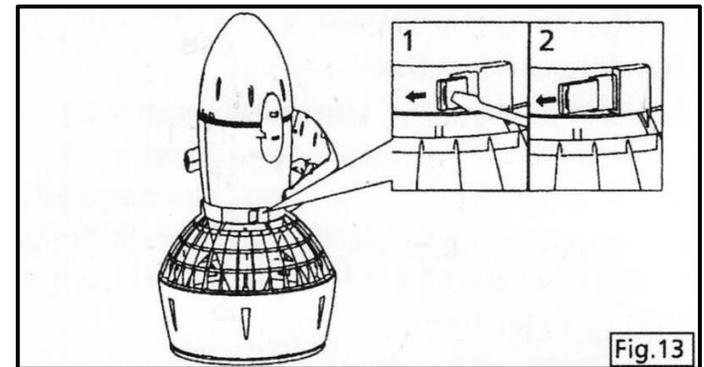
If the Propeller becomes blocked, first try and remove the obstruction by removing the Fan Shroud. If this is not possible the Fan Guard and Propeller can be removed.

### Removing The Fan Shroud To Remove An Obstruction

1. Remove the sea scooter from the water.
2. Make sure the Master Switch is in the OFF position.
3. Insert a screw driver as shown in Figure 13 to remove the two Shroud pins.
4. Unclip the Fan Shroud as shown in Figure 14.
5. Remove the obstruction.
6. Reassemble the Fan Shroud and insert the clips.

### Removing The Fan Guard and Propeller To Remove Obstruction

1. Remove the sea scooter from the water.
2. Make sure the Master Switch is in the OFF position.
3. Remove the Battery.



4. Unscrew the six Fan Guard screws as shown in Figure 15.
5. While holding the Propeller, use a M6 socket to remove the nut from the Propeller Shaft – see Figure 16.
6. Slide the Propeller off the shaft, taking care not to lose the drive pin or washers.
7. Remove the blockage from the Propeller.
8. Replace the drive pin (if removed) – see Figure 17 – and Propeller. Turn the Propeller slowly until you locate the pin and push the Propeller fully on.
9. Replace the washer(s) and nut and tighten the socket while holding the Propeller making sure it is securely fastened – see Figure 18.
10. Replace the Fan Guard.
11. Replace the Battery.

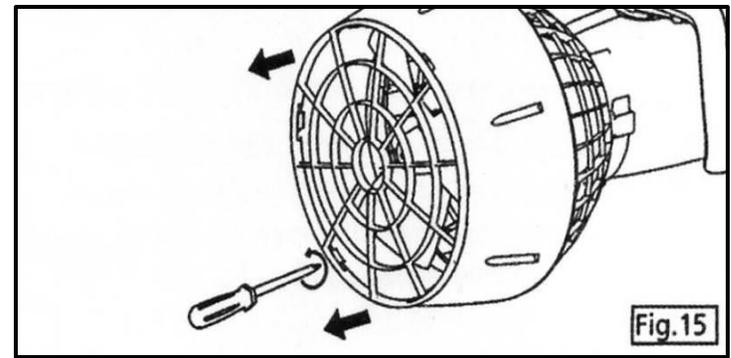


Fig.15

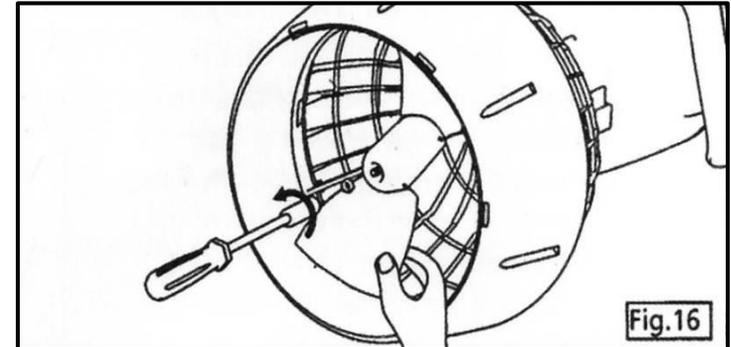


Fig.16

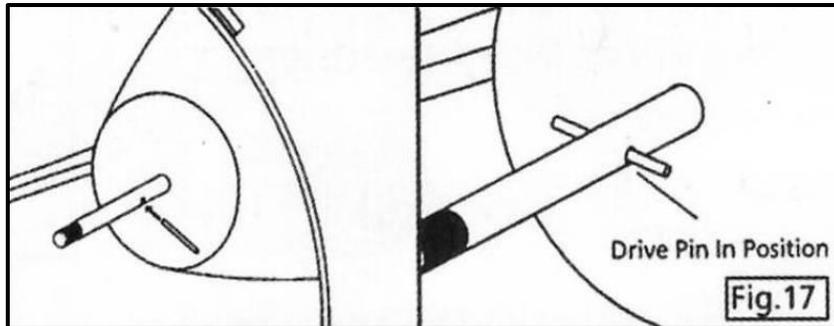


Fig.17

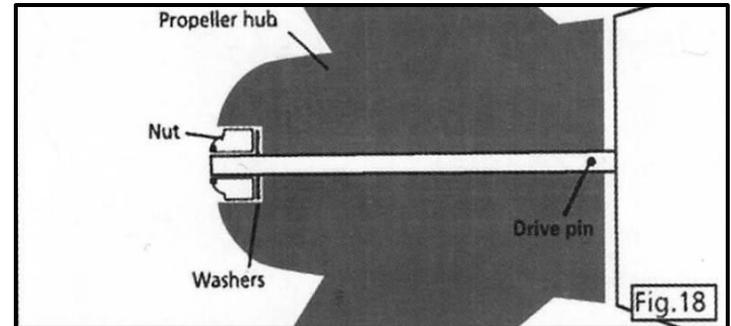


Fig.18

## Sand Or Grit On Seals

Sand or grit is the enemy of seals. Correct maintenance and care is essential. To remove sand or grit from the seals, rinse the seals in fresh water and apply fresh lubricant. If there is sand inside the Battery Housing, gently brush the sand from the unit taking care not to scratch the sealing surfaces.

## **Sea Scooter Cuts Out**

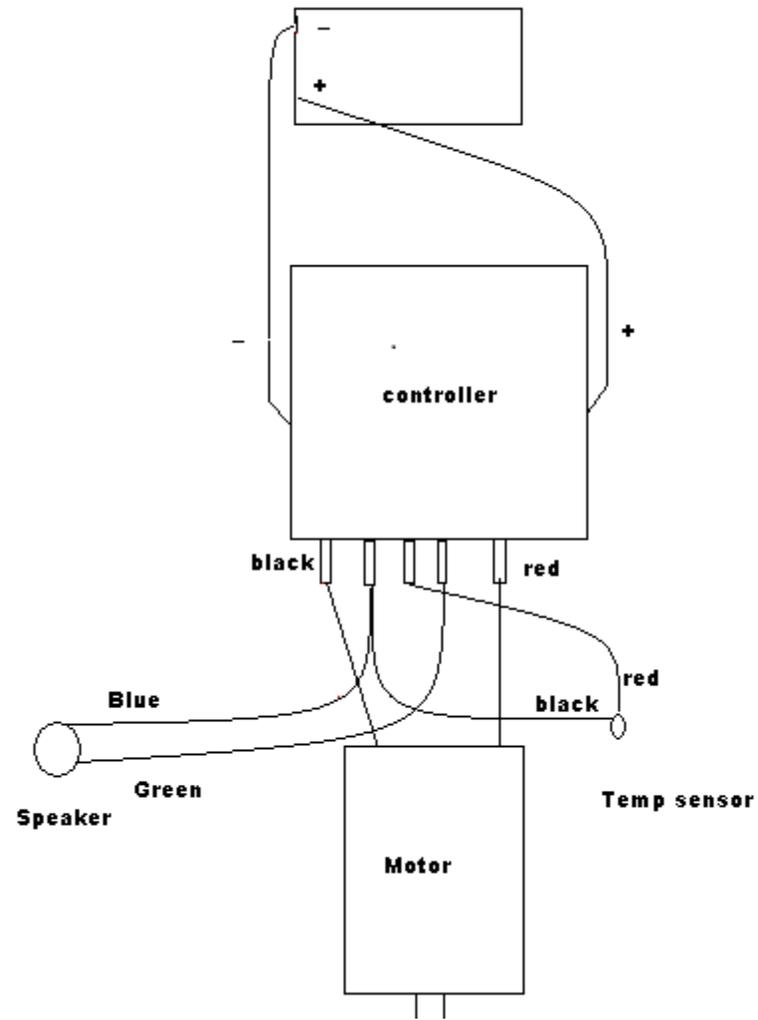
To protect the electronic circuit of your sea scooter from damage, a safety mechanism has been built in that cuts the power if a wall or rock or other immovable object is hit. If this occurs simply wait for a short period to allow the sea scooter to reset itself and resume use.

## **Accidental Flooding**

Be sure to keep the seals sand and grit free to ensure they keep water out and to close the Vent Plug after accessing the Battery Chamber. However, should the seals not be clean or the Vent Plug is left open and water enters the Battery Chamber, your sea scooter will not be damaged as it is designed for protection against accidental flooding. If water enters the Battery Chamber the sea scooter will automatically stop functioning. If this occurs:

1. Remove the unit from the water.
2. Open the Battery Chamber, remove the battery, and if salt water has entered the chamber rinse it out with fresh water.
3. Dry the Battery Chamber and Battery thoroughly and reassemble and the unit is ready for use.

# WIRING DIAGRAM





DO NOT RETURN TO STORE!

IF YOU NEED HELP

CALL OR GO ONLINE

1-253-777-0690

[www.x-tremescooters.com/support/](http://www.x-tremescooters.com/support/)

For General Information or Parts

Visit [www.x-tremescooters.com](http://www.x-tremescooters.com)