



REMIGO®
electric outboards

RemigoOne

User Manual

Acknowledgement

Thanks for choosing RemigoOne electric outboard. We will do our best to make boating for you as easy as possible. We are dedicated to provide ultimate user experience. High-performance technology, durable construction and reliable lithium batteries are just a part of that. Even though we designed your new outboard in a way that the use of it will be as intuitive as possible, we have to ask you to read this user manual thoroughly to understand the correct and safe operations.

Enjoy your time on water!

You are most welcome to contact us >

<https://remigo.eu/>

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Using This Manual

By using this product, you hereby agree that you have fully read and understood all contents of this manual. Remigo accepts no liability for any damage or injury caused by operations that contradict this manual.

Due to ongoing optimization of our products, Remigo reserves the rights of constantly adjusting the contents described in the manual. Remigo also reserves the intellectual property rights and industrial property rights including copyrights, patents, logos and designs, etc. This manual is subject to update without prior notice, please visit our website www.remigo.eu for the latest version. If you find any discrepancy between your products and this manual, or should you have any doubts concerning the product or the manual, please visit www.remigo.eu.

Remigo reserves the rights of final interpretation of this manual.

Product Overview

RemigoOne is an integrated electric outboard with all components seamlessly integrated in an unibody aluminium housing. It is engineered to maximise efficiency and designed to fully simplify its use. RemigoOne has thrust of 30 kg what makes it comparable to a 3 HP gasoline outboard.

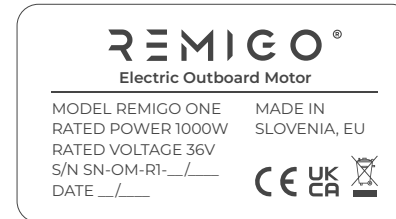
RemigoOne can be used on all types of boats up to 1500 kg; tenders, dinghies and sailboats. With stepless adjustable mounting height between 15in and 30in (extra short to extra long equivalent) the same unit can be adjusted to any type of vessel. No more need for "long" or "short" shaft version of the same product. It is intuitive to operate, easy to carry and store.

Unpack the package and check if there was any damage caused during the transport.

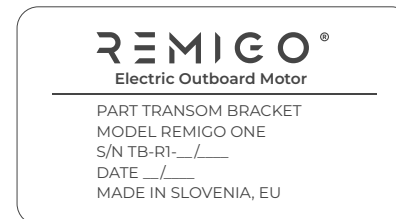
Check all the items inside the package against the below list. If there is any transport damage or lack of any listed item, please contact Remigo or your dealer immediately.

Product Identification

You'll find two ID labels with serial numbers on the product - one on the casing and the second on the transom/mounting bracket. Copy of the labels are also added to the Warranty papers. For access to the warranty and other after-sale services please contact us with stating both serial numbers.



Outboard ID label example



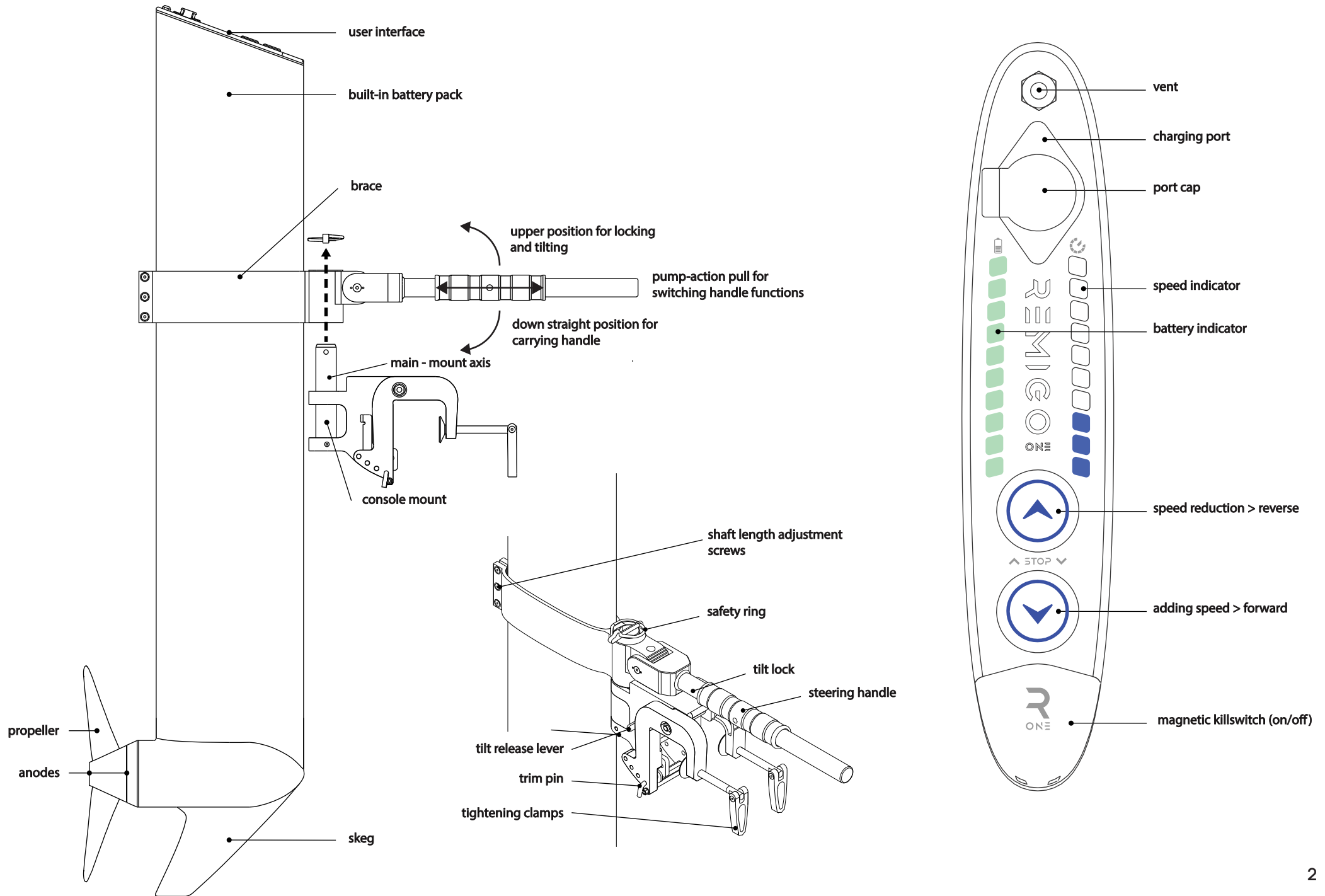
Bracket ID label example

Your Remigo Package includes:

- > RemigoOne outboard unit
- > RemigoOne mounting/transom bracket
- > Standard 5A charger
- > Two magnetic killswitches - RemigoOne Keys
- > Set of tools for propeller and height adjustment
- > User manual
- > Warranty form

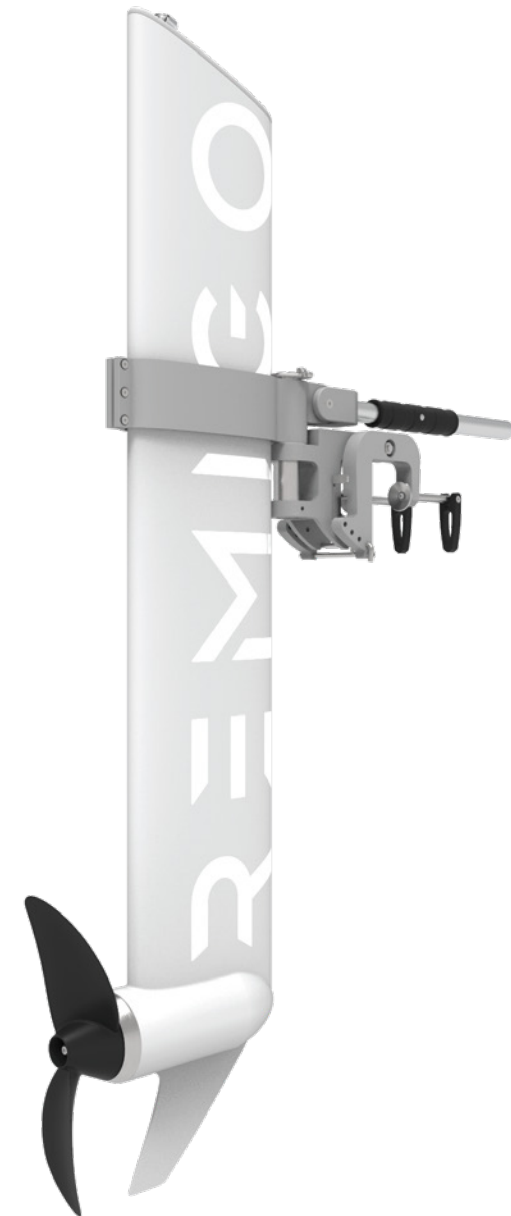
Save original package for the outboard storage.

Other accessories mentioned in this user manual can be purchased separately.



RemigoOne technical data sheet

input power	1000 W
motor type	brushless DC
static thrust	30 kg
comparable petrol outboard	3 HP
battery	integrated 1085 Wh Li-Ion
nominal voltage	36 V
final charging voltage	42 V
charging time 100 - 240 V	6h (standard charger - included)
charging time 100 - 240 V	3h (fast charger - optional)
charging time 12 - 24V	10 - 12h (DC charger - optional)
outboard weight	12 kg
bracket weight	2.5 kg
shaft length	stepless adjustment up to 800 mm / 15-30 inch eq.
maximum propeller speed	1000 rpm
control	2-button control on interface
steering	lockable
tilting	manual with grounding protection
trim	manual, 4 positions
reverse	yes
dimensions h x w x d	1250 mm x 295 mm x 90 mm



Installation

1. First install the bracket only - separate it from the outboard if needed.
2. Mount the bracket on the transom of the boat and tighten the two tightening clamps.
Transom thickness range: 12 mm - 65 mm
3. Adjust trim angle of the mounting bracket so that the main axis on the circular console mount is in vertical position.
4. With the "pump-action pull" put the steering handle on the outboard in upward position.
5. Hold RemigoOne with both hands and carefully mount it on the circular console.
6. Insert the safety bracket pin through the holes on top of the circular console mount to prevent separation of the motor and the mounting bracket.
7. With the "pump-action pull" put the steering handle on RemigoOne in horizontal position to enable steering.
8. Steering handle in upward position locks the outboard in center i.e. prevents rotation around the main axis. Use this position for tilting the outboard out of the water or when steering with another (primary) rudder.
9. For carrying RemigoOne put the steering handle in downward position
10. Ensure the outboard is firmly fixed as loosened clamp screws may cause the outboard to fall into water or get damaged.
11. Check the screws and tightening clamps every time before use since they may be loosened because of mechanical vibrations.
12. A rope is recommended to be used to avoid loss of your outboard in case it falls off the transom. Use the rope to connect your outboard and a secure mounting point on the boat.
13. The mounting height of the outboard affects the running speed seriously. When the mounting height is too high, cavitation may occur to waste power. When the mounting height is too low, the water resistance will increase and it will lead to running speed loss.
14. Adjust mounting height according to your transom height and applications. The optimum mounting height is affected by the conditions of boat and requirements. It's recommended to test running the outboard at a different mounting heights to find the optimal mounting height and thus the outboard's performance.

CAUTION: When RemigoOne is assembled with bracket and in use, make sure to use safety ring on console mount to prevent dropping bracket in the water.

Trim Angle Adjusting

1. RemigoOne has four trim angle options including 21°, 14°, 7° and 0°.
2. The trim angle should be adjusted according to the boat type and the running speed to achieve higher efficiency. It is recommended to try different trim angles at your desired running speed to achieve the best performance.
3. Only adjust the trim angle when the outboard is stopped.
4. Never toggle the Tilt Release Lever if the propeller is rotating.
5. Pull the Tilt Release Lever up and tilt up the outboard.
6. Remove the safety ring on the trim pin and then pull the trim pin out.
7. Select a desired trim angle and insert the trim pin into the corresponding position, attach the safety ring to fix the trim pin.
8. Put RemigoOne, back in vertical/operating position.

Adjusting shaft length

1. Unscrew security bolts on three screws on the back of the brace that holds motor in position.
2. Unscrew the three screws completely.
3. Insert the divider wedge in the brace to widen it.
4. Gently move the brace to a desired position.
5. Remove the divider wedge so the brace will close
6. Insert and tighten the three screws. Each screw should be retightened at least 3 times to secure a tight grip.
7. Screw on security bolts and tighten them.
8. Before turning on the engine check if the depth of propeller is correct and it turns freely when the outboard is positioned sideways – not to hit the boat.
9. Optimal shaft length is reached when propeller spins at around 5 cm below the surface

CAUTION: Always adjust shaft length safely ashore or inside the boat, when the outboard is unmounted and not in use, to prevent from dropping it in the water. The outboard does not float.

Operation

1. Ensure RemigoOne is correctly and firmly installed on the boat.
2. To turn it on, put the magnetic killswitch on its designated position on bottom of the unit's interface and attach the other end of the killswitch cord to your wrist or life vest.
3. Check and ensure the battery has enough power and plan your trip accordingly.
4. Wait for 3 seconds before operation. When both stop blinking and start to show actual data, you can set RemigoOne in operation.
5. To start the motor press the button that shows the desired direction.
6. Press the button again to increase power (10 steps available).
7. To decrease power, press the other button as many times as desired.
8. Hold the button pressed to faster increase/decrease the speed.
9. Press both buttons at the same time to stop the motor instantly, at any speed.
10. In case of emergency stop pull the killswitch/key off the interface.
11. Tilt the outboard out of water and uninstall it from mounting bracket according to your requirement.

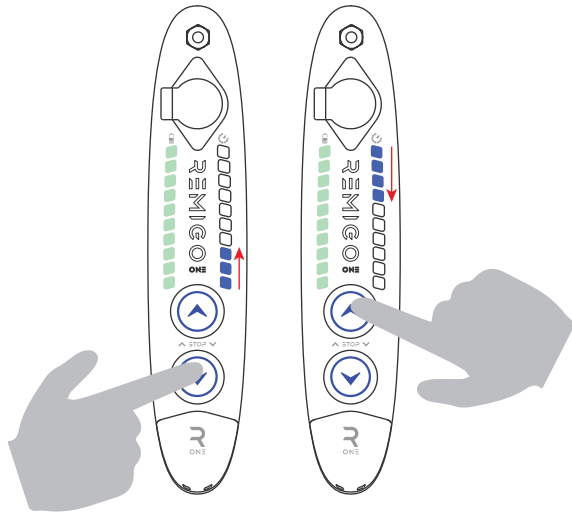
Tilting up the Outboard Motor

1. Put the steering handle in upwards position and ensure the outboard is locked in straight position. Note that locking pin in steering handle facing upward will lock only in fully central position.
2. Press the Tilt Release Lever, then pull the steering handle until the outboard tilts out of the water and Tilt Lock Lever jumps in locked position.
3. Hold the steering handle and press the Tilt Lock Lever to release the outboard from tilted position back to vertical. Lay down the outboard gently to the original position in the water.
4. Never toggle the Tilt Release Lever when the propeller is rotating.

CAUTION: Make sure Tilt Release Lever is in locked position before setting the outboard in reverse (backward motion).

Indicators

1. There are two indicators consisting of 10 LED (10 steps) on user interface.
2. Left one (green): State of Charge - indicating approximate battery level. The solid blocks stand for remaining battery. LED will change from green to orange when 50% is reached and to red when last 20% of battery power is reached.
3. Right one (blue): Power - indicating level of power in use. When moving forward, indicator LEDs will start to light up from bottom to top. When moving in reverse/backward motion, LEDs will also start to light up in reverse positions; from top to bottom.



Charging

1. Charge the battery when the state of charge level is low or empty.
2. Power off the outboard by removing the killswitch.
3. It's recommended to charge the battery after turning off the outboard though it's allowed to operate and charge the outboard simultaneously.
4. Connect the charger cable to the connector on top of interface and connect to the AC power plug of the charger to the 100V-240V wall outlet.
5. While charging you can check the state of charge by turning the outboard on with the key/killswitch.
6. When charging, LED indicator on RemigoOne charger is red.
7. When battery is fully charged, LED indicator on charger is green.
8. Disconnect the charger cable.
9. It is okay to leave the outboard connected to the charger for a few of days or so. However do not leave charger on for a longer period as it will affect the performance of the battery.

Propeller Assembly

The propeller is assembled on the outboard. Before use always quick check the propeller. If it gets damaged and you need to change it, please follow these instructions:

1. Remove the shaft anode.
2. Remove the bolt and washer.
3. Remove propeller by pulling it off the shaft.
4. Check the pin in the hole on motor shaft, and change it if damaged.
5. Attach the new propeller.
6. Tighten the hex locknut with 17mm socket wrench.
7. Attach the shaft anode back in position.

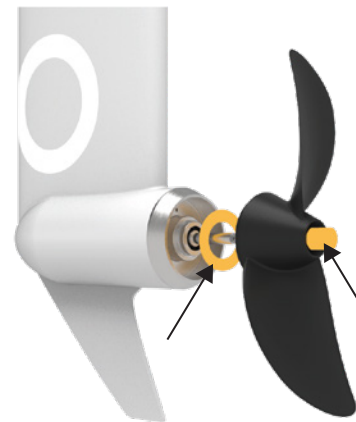
Maintenance

1. Conduct the maintenance under these instructions or your dealer.
2. Use only RemigoOne original components for replacement and maintenance.
3. Ensure the key is disconnected before each maintenance check, to prevent injuries due to rotating propeller.
4. Check the propeller blades for wear and other damage.
5. Check the pin on motor shaft for wear and damage.
6. Check regularly if anything is twisted around the propeller. (seaweed, fishing net ...)

Replacing the Anodes

There are 2 anodes on RemigoOne:

1. Shaft anode - located next to propeller bolt.
2. Housing anode - located behind the propeller.
3. Check anodes regularly and replace them once a year if necessary.



Locations of anodes

Important safety notes before start

Charge RemigoOne with official Remigo chargers only. Using unlicensed chargers is prohibited as they could damage the RemigoOne. Remigo will not be responsible for any damages caused by using unlicensed charging devices.

For safety reasons, please read the following instructions and notes before using this product.

By using this product you hereby:

- 1 agree to these notes and instructions;
- 2 agree not to use this product for purposes that infringe upon or contravene laws and regulations;
- 3 agree to be responsible for your own conduct while operating this product.

Outboard motor

- Only allow adults who have thorough understanding of this manual to operate this product.
- Always have paddles on board for additional safety.
- Familiarize yourself with all the outboard operations, including start/stop, steering and tilting.
- Check the status of the outboard and battery level before each trip.
- Follow the boat manufacturer's instructions on the maximum allowed outboard power of your boat, do not overload the boat or the outboard.
- Only run the outboard while the propeller is under water.
- Stop the outboard immediately if someone falls overboard.
- Do not leave the outboard in the water while the boat speed exceeds 15 NM.
- Tilt up the outboard above water for a longer period of not using it.
- Wash the outboard with fresh water before storing it for a longer period.
- Do not start the outboard in shallow or unknown water conditions. Only use the outboard in deep water area.
- If an error occurs and the outboard malfunctions, please remove killswitch and wait for one minute before setting it back on.
- For range extension and protection considerations, the motor maximum power will decrease to 70% when last 20% of battery charge is reached.
- When the battery voltage drops below the critical level RemigoOne will shut down automatically.
- With very low level of battery charge the range may extend considerably if motor is used in low power.
- To keep electric connector in good condition, please spray the connector once a year with contact spray.
- The killswitch has a magnetic field, keep it 50cm/20inch away from pacemakers and other medical implants.
- The magnetic field of killswitch may interfere with compass or some electronic instruments, keep it away from these instruments.
- Keep the kill switch 50cm/20inch away from magnetic cards (e.g. credit cards) and other magnetic media.

Battery

- Take battery safety seriously. Follow battery instructions, avoid short-circuit, overheat, overcharge and over-discharge.
- Operating temperature: -20°C to 55°C
- Charging temperature: 0°C to 45°C
- RemigoOne can only be charged with an RemigoOne original charger.
- RemigoOne has a built-in battery management system which provides cell balancing function, over charging protection, over discharging protection, short-circuit protection, over temperature protection, under temperature protection, over current protection, communication function, etc.
- Do not drop, strike or poke RemigoOne with sharp object.
- Do not disassemble RemigoOne or conduct unauthorized repair, the battery disassembly can only be conducted by Remigo service.
- Never charge a broken or damaged RemigoOne unit.
- Do not charge the battery near flammable materials.
- For cell balancing leave the charger connected for at least 12 hours at least every 2 months.
- Disconnect outboard from the charger when not in use for extended period of time.
- Though RemigoOne top cover is IP67 waterproof, it's suggested not to immerse it in water completely or store the unit in moist environment.
- Keep conductive objects away from the charging port to avoid damage of electronic components.
- Ensure the port cap is closed to avoid accidental short-circuit.
- Charge the battery immediately after full discharge.
- For long time storage, ensure the battery charge level is around 60%, store the unit in 15°C to 25°C ambient temperature.
- If battery level is low for a long time, it will enter sleep mode. Charge to wake it up.
- During long time storage, activate the battery every 3 months by a charge condition and keep the battery charge level at 60% around. This activation is very important and it can help to keep the battery in good health.
- After long time storage, fully charge the battery before use
- It is okay to leave the unit exposed to direct sunlight on hot days, but it must not be covered. White color and thermo conducting design help RemigoOne retain cool temperature in any normal weather condition
- Do not leave the unit in a hot or pressurized container, such as trunk of the vehicle on hot days.
- Never dispose RemigoOne as general household waste or in fire.

CAUTION: Due to the large battery capacity of the RemigoOne it is prohibited to transport it by air. This applies to passenger and cargo flights.

Transportation and Storage

1. For long distance transport, please use the original package to pack the outboard before transportation.
2. 1000Wh Li-Ion batteries (like in RemigoOne) are not allowed in the passenger aircraft. The Li-ion batteries are classified under Class 9 (dangerous goods - see Lithium Battery Guidance Document IATA 2015 Revision 1).
3. Never ship a damaged or broken battery.
4. If your outboard is going to be stored for more than 2 months, it's advised to have the outboard cleaned (salt removed), checked prior to storage. It's recommended to pack the outboard with the original packaging for storage.
5. Ensure there is no pressure on the propeller while in storage
6. Store the outboard in a dry, well ventilated place without direct sun exposure.

Emergency Situations

Impact Damage

If the outboard strikes some object in the water, please follow the procedures below.

1. Stop the outboard immediately.
2. Check the propeller and other components before you start the motor again.
3. If the motor is damaged, find your dealer or Remigo service center for help.

Submerged Outboard

1. If the outboard is submerged, stop it immediately. Ensure the outboard is thoroughly inspected before re-operation.

Low Battery Level

When the battery voltage is lower than a set threshold, the outboard will stop automatically to prevent battery from over-discharging. If this happens when the outboard is far away from the shore, it's recommended to wait for a couple of minutes until the battery voltage recovers, and you can restart the outboard using minimal power - 1 LED on indicator.

Declaration of conformity:



Remigo, proizvodnja in trgovina d.o.o.
Stanežiče 27e
1210 Ljubljana Sentvid

EU-Izjava o skladnosti

EU-Konformitätserklärung/EU declaration of conformity

Tip:/Typ./Type: RemigoOne yy* 23

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Seite:/Page:/Seiten:/Pages:
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Izdelek: Električni izvenkrmni motor

Produkt./Product: Elektrischer Außenbordmotor/Electric outboard motor

yy* Letnica namestitve CE oznake na aparat (zadnja dva znaka)/Jahr der Anbringung der CE Kennzeichnung am Apparat (letzte zwei Zeichen)/The year of affixing of CE mark on the appliance (last two digits).

S polno odgovornostjo izjavljamo, da so navedeni izdelki usklajeni s sledečimi predpisi in standardi:

Mit voller Verantwortung erklären wir, dass die angeführten Produkte mit folgenden Vorschriften und Standards konform sind:

We declare with our full responsibility that the abovementioned appliances are in conformity with the following regulations and standards:

1. Nacionalna zakonodaja: Nationale Gesetzgebung:/National legislation:	Pravilnik o električni opremi, ki je namenjena za uporabo znotraj določenih napetostnih mej (Uradni list RS, št. 75/08, 66/10, 17/11 – ZTŽPUS-1 in 74/11)
Oznaka evropske direktive: Nummer der Europäischen Richtlinie: European directive number:	Direktiva 2006/42/ES Evropskega parlamenta in Sveta RL 2006/42/EC Directive 2006/42/EC
Standard:	EN ISO 12100:2010
2. Nacionalna zakonodaja: Nationale Gesetzgebung:/National legislation:	Pravilnik o elektromagnetni združljivosti (Uradni list RS št. 132/2006)
Oznaka evropske direktive: Nummer der Europäischen Richtlinie: European directive number:	Direktiva 2014/30/EU Evropskega parlamenta in Sveta RL 2014/30/EU Directive 2014/30/EU
Standard:	EN 61000-6-2:2019 EN 61000-6-3:2007 + A1:2011
3. Nacionalna zakonodaja: Nationale Gesetzgebung:/National legislation:	Pravilnik o omejevanju uporabe določenih nevarnih snovi v električni in elektronski opremi (Uradni list RS št. 102/2012)
Oznaka evropske direktive: Nummer der Europäischen Richtlinie: European directive number:	Direktiva 2011/65/EU Evropskega parlamenta in Sveta RL 2011/65/EU Directive 2011/65/EU
Standard:	

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Mesto, datum:/Ort, Datum:/Place, Date: Ljubljana, 10. 3. 2023

Pravno odgovorni:/Rechtsverbindliche:/Legally binding person:

Direktor programa:
Programmdirektor/Plant director:
Ime:/Name:/name:
Marko Vrtovec

Podpis:/Unterschrift:/signature:



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Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. Diese Erklärung bestätigt Konformität mit den angeführten Vorschriften, garantiert jedoch keine Zusicherung von Eigenschaften des Produkts. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

This declaration of conformity is issued under the sole responsibility of the manufacturer. This declaration confirms the conformity with the mentioned regulations, yet it does not guarantee other characteristics of the product. The safety directions which are delivered with the enclosed product documentation should be observed.

Reg. 8383779000
Tax: SI50400053
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Delavska Hranilnica d.d. | HDELSIZ2

Enjoy your clean and silent ride with RemigoOne

REMIGO®
electric outboards

You are most welcome to contact us about anything:
question, experience, concern, idea... :

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