

Gliss-Speed

Owner's Manual



Gliss-Speed Navigation on Tignes Lake – France - Summer 2011

GS201 MODEL – VERSION 2015

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1. INTRODUCTION

All the team of company AQUALEO is happy to present you this manual which will enable you to better know your "nautical electrical karting": The Gliss-Speed.

This manual has been drawn up to help you use your Gliss-Speed with pleasure, in full safety and durably. Read it attentively in particular to prevent invasion and fire hazards and make yourself familiar with your Gliss-Speed before you use it.

If it is your first boat or if you change for a type of boat with which you are not familiarized, for your comfort and safety, ensure you to obtain an experiment of catch in hand and use before ensuring the command of this one.

I WARNING!

Keep this manual in a safe place and transmit it to the new owner, if you decide to sell your Gliss-Speed. This document is a translation of the reference document written in French which is the sole authentic text for further reference.

I WARNING!

Our products are regularly improved in regard to our customers experience and the researches proceeded by AQUALEO, so the technical specifications given in this owner's manual are not contractual and can be modified without notice and without update obligation.

The aim of this manual is to cover a maximum of intel so some of the presented equipments or paragraphs might not concern your Gliss-Speed. When in doubt, please refer to the inventory provided by your seller when ordering.

I WARNING!

The Gliss-Speed has been designed to be used without needing a license, in accordance with the French regulation in force at the time of writing this document.

It belongs to the owner to get informed about the regulatory requirements to navigate legally. AQUALEO could not be held responsible for not taking into account the relevant current regulations in the navigation area of the Gliss-Speed.

2. CONTACT

AQUALEO SARL
ZA de la Mairie
53410 ST OUEN DES TOITS
FRANCE

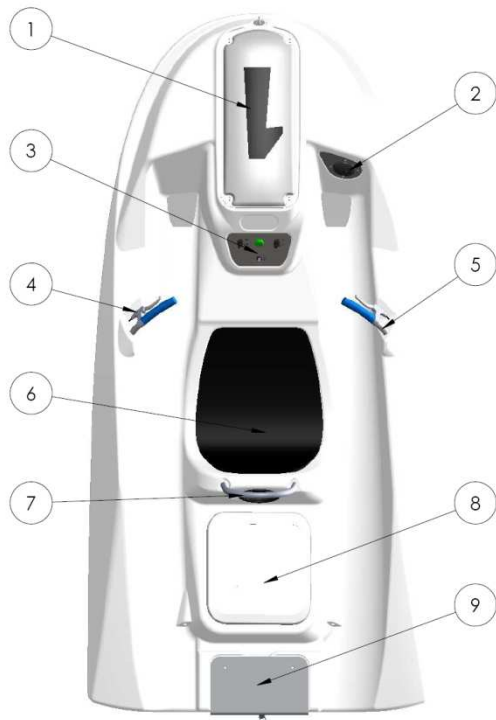
www.gliss-speed.com

3. TECHNICAL SPECIFICATIONS

3.1. GENERAL VIEW



Figure 1
Global perspective view



Caption

- ① Front hood (above the battery hatch)
- ② Gas pedal
- ③ Control panel
- ④ Direction handle (port)
- ⑤ Direction handle (starboard)
- ⑥ pilot seat
- ⑦ hoop (optional)
- ⑧ Engine hatch
- ⑨ Footboard (protection of the steering system)

Figure 2
Deck general view

3.2. GENERAL SPECIFICATIONS

Commercial name : Gliss-Speed	Model : GS201
Manufacturer : AQUALEO	Manufacture country : France
Overall length : 2,49 m	Maximum beam : 1,25 m
Draft when empty : 0,40 m	Draft when navigating : 0,50 m
Weight (without battery) : 70 kg	Battery weight : 25 kg
Engine power : 3,0 kW	Propulsive power : 2,5 kW
Battery type : Lithium-ion	Battery voltage : 48 V

3.3. USING SPECIFICATIONS

Number of passengers : 1	
Maximum pilot weight : 110 kg	Minimum advised size : 1,40 m

3.4. CATEGORY OF NAVIGATION AND ARMAMENT OF SAFETY

The Gliss-Speed has been designed and built to be assimilated to a "beach craft".

Beach crafts are allowed for daytime navigation not exceeding 300m from the coast, as well as in any inland water body and rivers. No safety or armament equipment is required. The annexes can do navigations in an area not exceeding 300m from a shelter, their carrying ship being considered as a shelter.

I WARNING!

- Navigate in the lower 300 meters of coastline
- Navigate your Gliss-Speed only from sunrise to sunset
- Provide (and make wear) a life jacket in good shape and adapted to the pilot
- Check with the relevant authorities (town hall, prefecture, etc.) That the Gliss-Speed navigation is authorized or take into account the conditions for such navigation

4. SAFETY INSTRUCTIONS

4.1. GENERAL

It is the responsibility of the owner or operator to ensure that all necessary or required safety equipment is on board, that the pilot of the Gliss-Speed has knowledge of such equipment and knows how to use it and that it is accessible during navigation.

It is particularly important for children, disabled people and non-swimmers to wear a life jacket constantly. Children and non-swimmers need special instruction for the use of their life jacket.

I ALWAYS!

- Remain seated in the Gliss-Speed during navigation
- Wear (and make people wear) an armband or a life jacket in good shape and adapted
- Check that the drain plug located at the back of the hull is present and properly screwed before setting with water (risk of submergence)

I NEVER!

- Get up in the Gliss-Speed
- Exceed the maximum recommended load
- Go more than one person on the Gliss-Speed
- Set with water your Gliss-Speed if the depth is not sufficient : risk of damaging the helix and/or the steering system and/or the hull

4.2. FLOODING

Any vessel can be brought to be filled with water and then eventually sink if the floatability is no longer sufficient. To avoid such a scenario, one should remain vigilant on the possible pathways for water and ensure to eliminate or reduce them. For more details, refer to the "Maintenance" chapter.

I ALWAYS!

- Check for presence and correct tightening of the drain plug on the back side of the hull
- Check for correct closure of the two hatches located : at the front (battery hatch) and rear (engine hatch) located on the deck
- Check for presence and good general state of the front hood gasket and for correct tightening of the front hood fixed above the battery hatch
- Check that there is no water in the hull (every day) and empty it if necessary
- Store the Gliss-Speed out of water when not used, especially at night

5. FUNCTIONNING

5.1. GENERAL

I ALWAYS!

- Check the general condition and the level of battery charge before using or charging the battery
- Systematically get the Gliss-Speed battery out after use and recharge it before stocking it until the next use

5.2. CONTROL PANEL

The control panel of your Gliss-Speed is composed of:

- An "ON-OFF" button can turn on or disconnect the power supply of your Gliss-Speed
- A LED lights when the "ON-OFF" button is turned "ON" on the condition that the battery is connected and adequately charged
- The ON-OFF button allows to change the direction of rotation of the engine/helix and so to make your Gliss-Speed go forward or reverse by adjusting the top position of the switch (Reverse) nor the medium position (Forward)
- As an option, you can have a speed selector with a key "V1-V2-V3" adjusts the power delivered to the engine and so the speed of your Gliss-Speed depending on the desired program (stroll or sport), the weather, the size of the driver, etc. It is recommended not to leave the key of the speed selector during navigation, unless you want to let the possibility to the pilot to change this setting when navigating (with the risk of losing it if it is not attached)

I WARNING!

- Turn "OFF" the "ON-OFF" button as soon as you stop using your Gliss-Speed
- Turn "OFF" the "ON-OFF" button before any operation of plugging and unplugging the battery or of opening a hatch



Figure 3

Control panel view

5.3. ELECTRICAL CIRCUIT AND PROTECTION

The electrical circuit is installed in four areas:

- Battery housing: Li-ion 48V
- Hull: BMS, electronic inverter, contactor, fuse
- Engine housing: engine
- Control panel: Command buttons and LED

Other electrical and electronic components are not represented in this diagram (see Figure 4). If you have questions regarding the connection or replacement of electrical and electronic elements especially electronic inverter related, please contact your dealer.

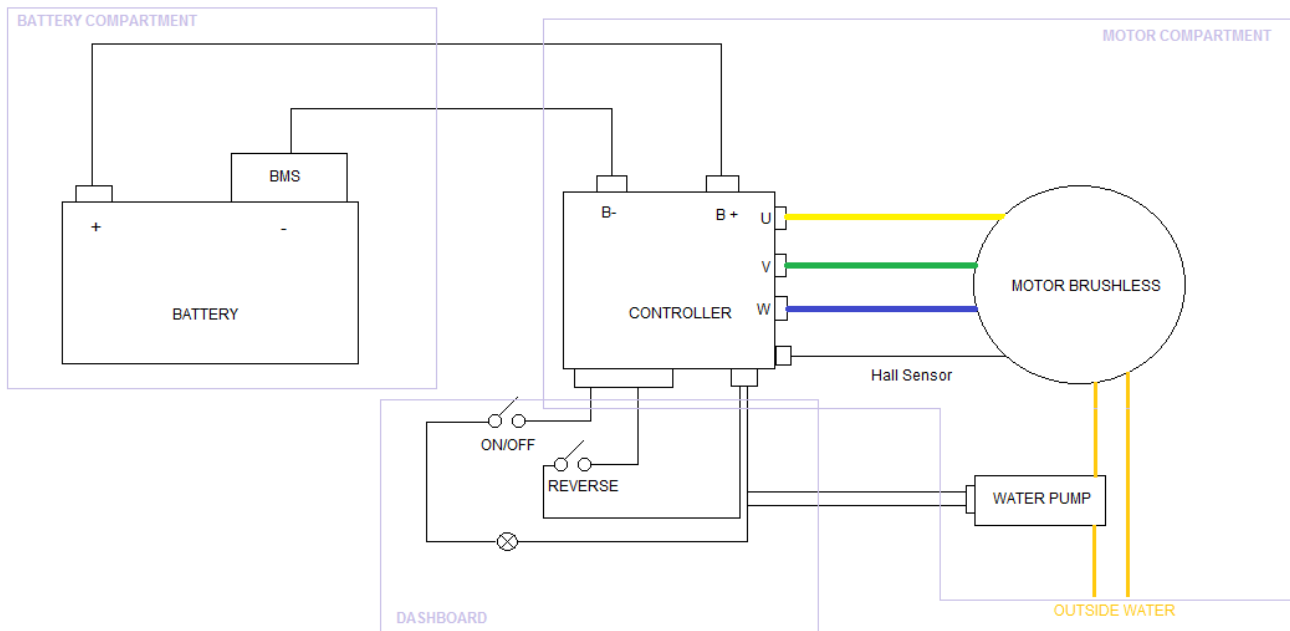
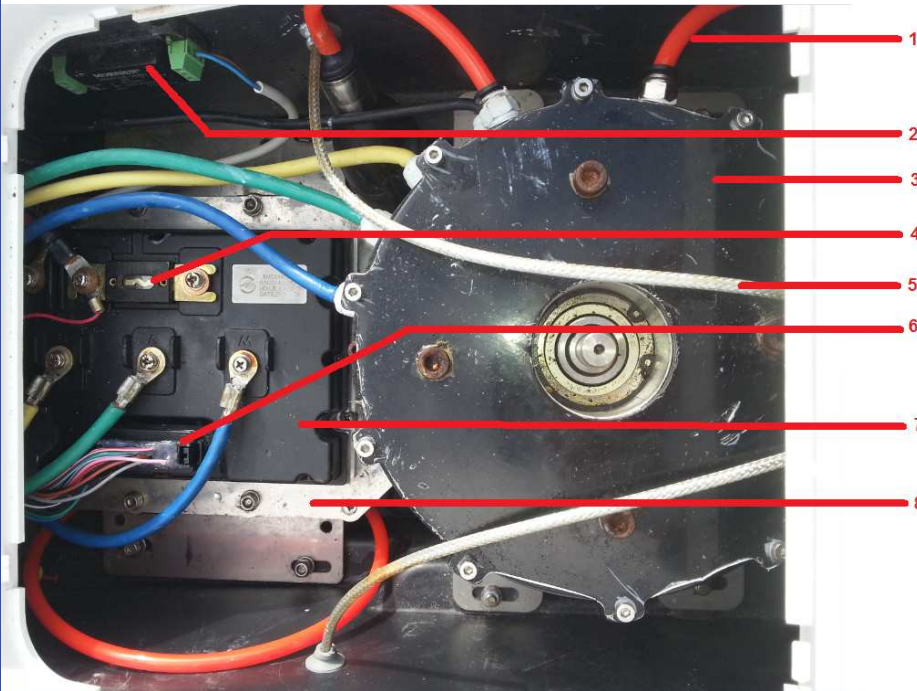


Figure 4

Diagram of the electrical power circuit

5.4. ENGINE AND TRANSMISSION

The electric engine allows you to navigate without rejecting CO₂. The engine converts electrical power from the battery into mechanical motion which is transmitted by the belt to the helix base that allows the movement of your Gliss-Speed.



- Caption**
- ① Water Pipe
 - ② 48V/12V converter
 - ③ Engine
 - ④ 200A Fuse
 - ⑤ Steering cables
 - ⑥ Cable Harting
 - ⑦ DC Controller
 - ⑧ Cooling plate For controller

Figure 5
Engine housing inside view

I ATTENTION !

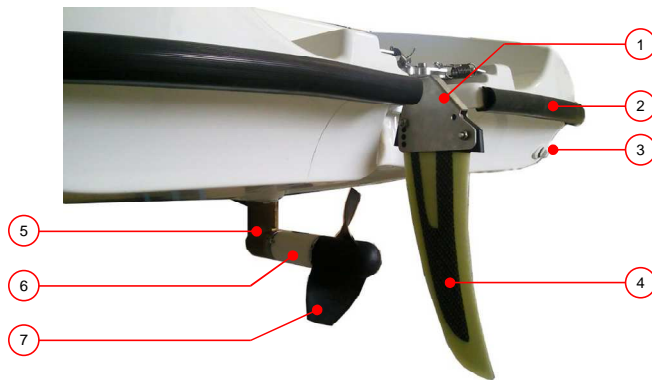
- Turn "OFF" the "ON-OFF" button BEFORE opening the hatch and/or check that the battery is disconnected
- Check the right closure of the housing hatch BEFORE any navigation. Navigate with the housing hatch opened can let water come inside the hull and reduce the floatability of your Gliss-Speed.
- Never put your hands in the engine housing while the system is powered (ON) or while the engine is running

5.5. BASE AND HELIX

The helix is an essential part of your Gliss-Speed propulsion system. Its proper functioning is critical in order to maneuver correctly and so ensure the safety of the user.

I WARNING!

- Check, before each use, its proper functioning, tightening of the cables and effective movement of the rudder when activating the direction handles **WITHOUT BATTERY**
- Be particularly careful when maneuvering for departure and arrival, to the passages in the anchorage areas, close to the buoys and other structures, and any floating objects on the surface: risk of damaging the helix and / or the steering system
- Put in the water and navigate within more than 50 cm deep water (draft MINI)
- Never approach your hand to the helix while the system is powered (ON)

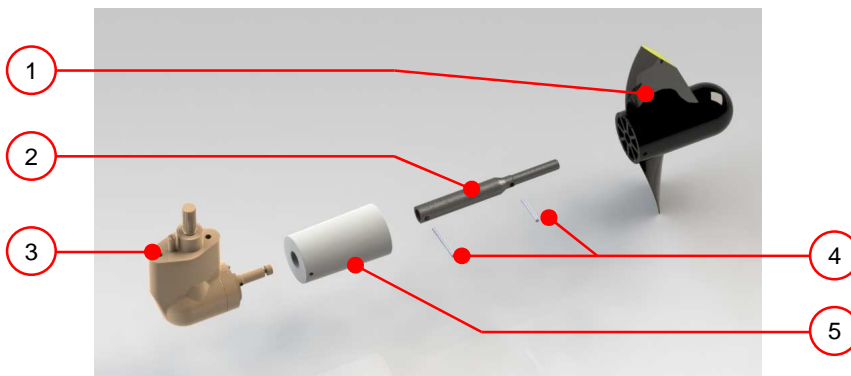


Caption

- ① Rudder support
- ② Peripheral bumper
- ③ Drain plug
- ④ Rudder
- ⑤ Base
- ⑥ Ferrule complement
- ⑦ Monobloc helix

Figure 6a

Gliss-Speed rear view



Caption

- ① Monobloc Helix
- ② Ferrule
- ③ Base
- ④ Cotter pins
- ⑤ ferrule complement

Figure 6b

Helix fixation on the base exploded view

5.6. STEERING SYSTEM

The steering system is a key component for safety, maneuverability and the comfort of your Gliss-Speed. Its proper functioning is critical in order to maneuver properly and so ensure the safety (and thrill) of the user.

The boat is naturally going on the left while driving without touching steering system. This function is normal and due to the internal conception of the boat. Propeller is turning on the right and hull is less than 2.5m. So notice, the turning left will be easier than the turning right. If possible, install a race track where turning is on the left.

Average Diameter of rotation for pilot with 80kgs and 9 knots speed : 13m

I WARNING!

- Check, before each use, its proper functioning, tightening of the cables and effective movement of the rudder when activating the direction handles
- Be particularly careful when maneuvering for departure and arrival
- Be particularly careful to the passages in the anchorage areas, close to the buoys and other structures, and any floating objects on the surface: risk of damaging the helix and / or the steering system

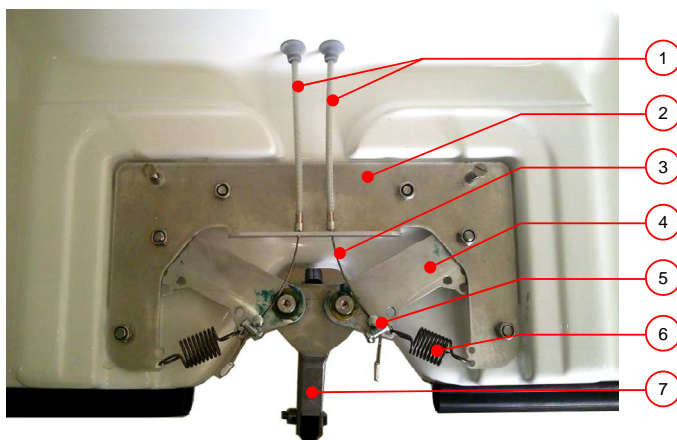
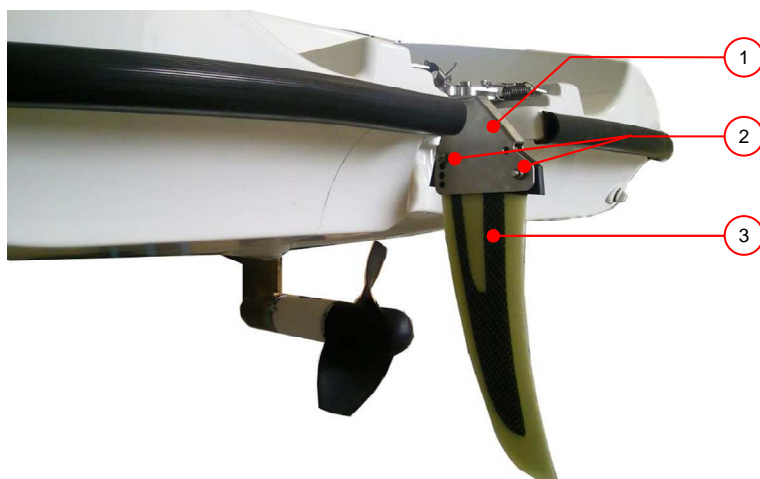


Figure 7a
Steering system view

Caption

- ① Steering cable sheath (x2)
- ② Direction base (stainless steel)
- ③ Cable (x2)
- ④ Rod (x2)
- ⑤ Cable clamp (x2)
- ⑥ Spring (x2)
- ⑦ Rudder support



Caption

- ① Rudder support
- ② Screw + nut for rudder fixation (x2)
- ③ Rudder

Figure 7b

Rudder detailed view

5.7. BATTERY ET CHARGER KIT

The battery capacity has been designed to meet the engine and accessories energy needs on board. To avoid any problem, it is necessary to ensure proper charge and proper maintenance of your batteries. A specific document is included with each charger kit, take the time to read and assimilate all its content to achieve the charging operations of a battery in safety conditions.

I WARNING!

A bad use of the batteries can cause a fire departure or an explosion, especially if the provided BMS electronic card is disconnected, improperly plugged or damaged (see leaf provided with the "Charger kit").

I ALWAYS!

- Check the general state and the battery charge level before using or charging the battery (with a voltmeter for example)
- Remove the battery after using the Gliss-Speed. Apart from any use, especially at night, remove the batteries from the Gliss-Speed, recharge them completely before storing them in a ventilated, dry and clean local
- Check that the battery voltage stays higher than or equal to 47 V (with an electrical tester), especially during long periods of non-use
- Store the batteries out of the boats in stable temperature conditions >15°C

I NEVER!

- Work on a electrical system powered
- Modify an installation and the electrical connections, change or modify the interrupting capacity of protection devices against overcurrent
- Replace devices or electrical equipment with components exceeding the required capacity without recalibrating the conductors and their protection without the written consent of AQUALEO
- Leave the battery of your Gliss-Speed unwatched while charging
- Put in contact the two terminals of a battery through conductive objects (eg tools, wire, etc.)
- Derogate from the instructions for the charge and maintenance of batteries detailed in the document included in your "battery charger kit" (Document reference FP_003)



Figure 8a
Battery Li-ion 48V

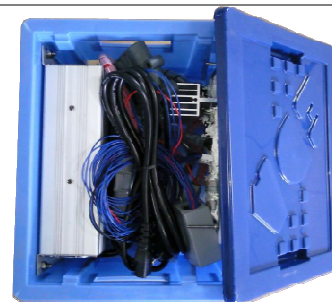


Figure 8b
Batterie Li-ion 48V charger Kit

6. NAVIGATION

6.1. PREPARATION

The preparation phase of navigation is critical to take maximum advantage of your Gliss-Speed. Indeed, any problems encountered on the water and not detected before departure can cause complications far more difficult to fix than on the water's edge or on land.

The owner shall transmit the following information and instructions to the other users, this in the interest of all. Accordance with the terms warranty, AQUALEO not be held responsible for damages incurred when using the Gliss-Speed.

I BEFORE LAUNCHING!

- Check for presence and correct tightening of the drain plug on the back side of the hull
- Check that the depth of the water at the back of the boat is at least 50 cm : risk of damaging the helix and/or the steering system and/or the hull
- Place the battery in its housing (on the ground), place the cables up the box
- First connect the battery with the power connector (gray or black plastic connector)
- Then connect the battery with the multipin connector (with wiring harness)
- Make sure, before testing the proper rotation of the helix, that the helix will not touch any object nearby
- Turn on "INIT" the "ON-INIT-OFF" button, wait a few seconds to hear a clicking noise (closure of the contactor) then turn the button "ON". Check that the LED lights without blinking on the control panel and press the accelerator with the hand (do not get into your Gliss-Speed until it is on the water) to check that the helix rotates
- Turn back "OFF" the "ON-INIT-OFF" button
- Close the battery box and replace the front hood over it by fixing it with its 4 screws

I REQUIRED INFORMATION FOR THE PILOT!

- Make sure before letting the pilot navigate, that he is well equipped with a life jacket suitable and in good condition
- Inform the pilot of the safety instructions and navigation rules applicable to the water body
- Inform the pilot about the steering system functioning so that it knows how to run his Gliss-Speed (eg: "activate the handle on the side where you want to go")
- Inform the pilot about the functioning of the gas pedal at the right foot
- Inform the pilot not to press on the gas pedal when positioning the "ON-INIT-OFF" button to "ON", otherwise the electronic security system will be triggered
- Inform the pilot about the functioning of the buttons on the control panel: "ON-INIT-OFF" button and gear selector button "AV-N-AR"
- Inform the pilot about the course, any prohibited areas, any priority rules, etc.
- Inform the driver of the need to constantly keep a minimum distance of 2 meters with any other boat or obstacle on the water (eg buoy, dock, branch, etc.) Do not confuse "karting" with "bumper car"!

6.2. INSTALLATION OF THE PILOT AND START

To ensure that each user benefits from a positive and enjoyable experience, it is essential to provide him (or verify that he knows well) some basics before departure.

I INSTALLATION OF THE PILOT!

- Get aboard the boat with caution and not rely on the direction handles
- First place the two feet of the pilot on the seat so that his weight would be in the middle (longitudinal and lateral) of the Gliss-Speed to ensure more stability
- Sit the pilot in the seat, the feet naturally find their place on each side of the control panel
- Make sure the right foot of the pilot is off the gas pedal for not triggering the security
- Set the gear selector button to the appropriate position "AV" (FORWARD) or "AR" (REVERSE) depending on the departure
- Turn "INIT" the "ON-INIT-OFF" button (clicking), then turn it "ON"
- Check that the Gliss-Speed is not linked or attached and that the departure area is clear
- Preferably chose delayed starts in the case where several Gliss-Speed navigate at the same time
- Remind the pilot when he comes back to the dock to stop accelerating and to turn "OFF" the "ON-INIT-OFF" button or to turn on "N" the gear selector button about 4 meters BEFORE the docking point for a smooth arrival
- Set the speed depending on the desired program (stroll or sport), the weather, the size of the driver, etc. It is recommended not to leave the key of the speed selector during navigation, unless you want to let the possibility to the pilot to change this setting when navigating (with the risk of losing it if it is not attached)

I WARNING!

- Adapt the speed of your Gliss-Speed, in any situation, to the environmental conditions
- Like all motorized boats, the Gliss-Speed is not equipped with brakes. The stop is not immediate: IT IS ESSENTIAL TO ANTICIPATE ALL MANEUVERS INCLUDING THOSE OF THE OTHER USERS ON THE WATER BODY
- Always keep a safety margin of some meters from obstacles
- Pay particular attention to the surface state of the water body (chop, waves, etc.)
- Pay particular attention to potential current and to the wind strength and direction
- Pay particular attention to the traffic in the navigation area
- Be particularly careful when maneuvering for departure and arrival
- Pay particular attention to passages in the anchorage areas, close to the buoys and other structures, and any floating objects on the surface: risk of damaging the helix and / or the steering system and/or the hull
- Make sure you always have a sufficient distance to stop or maneuver if necessary to avoid a brutal collision
- It is strictly forbidden to collide with other boats navigating around at risk of damaging the material

6.3. RETURN AND STOP

The maneuver of return may be causing damage to the hull or other parts of the Gliss-Speed (eg helix, steering system, etc.). It is essential that the pilot knows and applies certain rules to avoid or limit the consequences of a too "violent" arrival.

I INSTALLATION OF THE PILOT!

- Remind the pilot when he comes back to the dock to stop accelerating before turning "OFF" the "ON-INIT-OFF" or turning "N" the gear selector button about 5 meters BEFORE the docking point

I MINIMAL CHECKING BEFORE A NEW DEPARTURE!

- Check the flotation of the Gliss-Speed which can indicate the presence of water in the hull. When in doubt, manipulate the Gliss-Speed to feel (or not) the possible mass of moving water. In the presence of significant water in the hull, get the Gliss-Speed out of the water, look for eventual marks on the hull and deck and drain it using the drain plug on the back of the hull

7. PROTECTION AGAINST FIRE

By acting quickly, the fire can be easily controlled, but you must be prepared for it to be able to act quickly and effectively. Your Gliss-Speed is not equipped as standard with a fire extinguisher. By cons, it is recommended to have at least one ABC powder fire extinguisher of sufficient capacity near the battery charge room.

8. PROTECTION OF THE ENVIRONMENT

We invite you to keep you informed of local rules for environmental protection, and to respect the regulations against pollution in marine environment as well as codes of good practice.

9. HANDLING, TRANSPORT AND DEWATERING

Your Gliss-Speed is designed to navigate on water, so the handling, transportation and dewatering must be done carefully to avoid damaging the hull, the propulsion system (base + helix) and the steering system.

It is recommended to have and use a suitable support or a trailer marrying the forms of the hull and allowing sufficient clearance between the protruding parts of the hull so that they can neither be in contact with the ground nor with the support. Contact your dealer if you want a support and/or an adapted trailer.

It is recommended to move the Gliss-Speed with two people. The operations of dewatering will allow to inspect and verify the good condition of the hull, the propulsion system (base + helix) and the steering system.

I NEVER!

- Lift the Gliss-Speed by its direction handles, but hold it by under its strake

10. MAINTENANCE

Although your Gliss-Speed is designed to last several years, it is essential to ensure regularly some periodic verifications, some settings and some maintenance operations on your Gliss-Speed.

I WARNING!

- Always repair the small problems, before they get bigger!
- Inspect regularly the different systems of control, propulsion, steering, the general state of the hull and the tightness of the housing
- When in doubt, please contact your dealer

10.1. HULL AND DECK

The hull and deck are sensitive to impacts, scratches and blows they can receive during the use and especially during maneuvers. It is recommended to flush the hull, deck and hardware, as often as possible if not after each use, with a fountain of fresh water. These flushing operations should always be made with the battery removed and the hatches closed. A particular attention will be given not to put water inside or flush directly on the dashboard and the louvers located on the deck (above the dashboard and at the rear of the seat).

To maintain a good appearance of the paint of your boat, a regular preventive maintenance of it is necessary. If the boat is left in water for extended periods, it is advised to cover the hull with an antifouling protection paint preventing the adhesion of marine vegetation, after having degreased the hull and performed a light manual sanding with a 400 grit sandpaper or more. In the absence of antifouling protection, it is recommended to brush the exterior parts regularly with a mild detergent. It is recommended to run some tests on small areas, preferably hidden or not directly apparent.

It is recommended to polish with a suitable paste the stainless steels which may have small inconsequential pits or oxidation cavities. It is recommended to periodically clean the fiberglass with fresh water. For the northernmost climates and semi-méridionales, a layer of wax is annually required.

When you wax the fiberglass, if you cannot recover the original shiny, you will need to polish it. If the gelcoat is too oxidized, sand it smoothly with a very thin wet sandpaper before waxing.

Do not use oil, organic solvents or acetone on the plastic parts (housing hatches). Do not wash with ammonia or chlorine-free products to overcome recalcitrant stains. When the gelcoat gets wet, it becomes very slippery, use anti-skid materials to make the surface catchier, if needed.

To keep your Gliss-Speed in good condition, follow these tips:

- Dry your Gliss-Speed whenever it is possible
- Open the drain plug when the Gliss-Speed is out of the water
- To avoid corrosion, rinse your boat with fresh water after each use (Take care of avoiding the dashboard area and the ventilation openings). To do so, it is better to use a sponge rather than a water jet.
- Inspect regularly the hardware and repair quickly in case of damaged pieces
- Check at least once a day if not before every use, the absence of water in the hull. Look for the causes of water infiltration and empty the Gliss-Speed in case of water presence in the hull
- Store the Gliss-Speed out of water when not used, especially at night and during the long periods of non-use.

10.2. INSIDE HOUSINGS

After every long use, ventilate your Gliss-Speed by opening the battery hatch (on the front) and the engine hatch (on the back). Ensure the cleanliness and the draining of the funds in order to limit condensation.

I WARNING!

- Leave the "battery" and "engine" housing hatches partly open, apart from any use and especially at night in order to reduce condensation and thus the appearance of corrosion and eventual damages on electric and electronic components
- Check the proper chain tension at least once a week if not before each use, and tighten if necessary
- Apply on the engine, the chain and the sprockets at least once a week, a protective product (eg WD40)

Procedure for adjusting the chain:

- Loosen the 4 engine fixing screws
- Push the engine to tighten the chain (use a wrench or a bar to pry)
- Tighten strongly the 4 engine fixing screws
- Check the proper chain tension. Its lateral deviation must not exceed 5 mm

10.3. STEERING SYSTEM

The steering system needs to be regularly inspected to insure proper functioning.

I WARNING!

- Check the right tightening of the cable clamp, at least once a week
- Apply on the rods axis and the direction handles axis, at least once a week, a lubricant product / penetrating oil (eg WD40) and marine grease before long periods of non-use

10.4. BASE AND HELIX

The propulsion system needs to be regularly inspected to insure proper functioning.

I WARNING!

- Work on the base or the helix WITHOUT BATTERY connected
- Check at least once a week, the presence and opening of the cotter pins
- Check at least once a day, that there is no algae or anything else that can impede or block the rotation of the helix and reduce the performances of your Gliss-Speed
- Drain at least once a year, the base oil (0.25 liter of outboard transmission oil EP 90 or equivalent)

10.5. TROUBLESHOOTING**FAILURE / SYMPTOM**

The "GREEN" LED of the control panel doesn't light...

ACTIONS

Check the following points :

- The battery is properly plugged
- The battery voltage is higher than 47 V
- The "ON-INIT-OFF" button of the control panel is switched « ON » and a clicking has been heard during the switching to the position "INIT"
- The fuse is in his place and functioning

FAILURE / SYMPTOM

The "GREEN" LED of the control panel is on, but the helix does not rotate...

ACTIONS

Check the following points :

- The battery is properly charged (about 54V)
- The fuse is in his place and functioning
- The electric plugings on the engine are properly tightened
- The electric cables and wiring harness are not "pulled" or "tensed" which could lead to an opening in the electric circuit (see electric diagram, figure 4)

FAILURE / SYMPTOM

The helix generates a loud noise or vibrates excessively...

ACTIONS

Check the following points :

- The helix is in good shape
- The base is not loose
- No excessive vibration in the base
- Presence and proper tightening of the chain in the engine housing
- After removing the helix, strait rotation of the ferrule

FAILURE / SYMPTOM

The Gliss-Speed quickly fills with water...

ACTIONS

Check the following points :

- Presence and proper tightening of the drain plug
- Absence of hole, cracking or impact on the hull
- Absence of hole, cracking or impact on the deck
- The base is not loose

PANNE / SYMPTOME

The Gliss-Speed does not turn or badly...

ACTIONS

Check the following points :

- The steering cables are in good condition and properly tensioned and tightened
- The rods are not seized
- Presence, good condition, proper attachment and verticality of the rudder
- The steering cable sheaths are in place at the direction handles

11. STORAGE

BOATS shall be stored on the hull.

It is prohibited to stored boat on the side or and the back or on the nose, or in reverse position. This is true for short and long storage time.

Never stored the boat supported on the base. Please support the boat with the hull. The surface may be flat and not with dots and points.

BATTERY :

For long time not use, prefer to store the batteries :

In a 20 degrees house with less than 50% humidity. Temperature shall not move more than 5 degrees more and less than the 20 degrees.

Store the battery with 50% capacity. Every month, please charge with 10A small charger during one hour. IT IS COMPULSORY TO RESPECT THIS PROCEDURE

After the storage time, please check voltage of the battery with voltmeter by measuring the voltage on the charger connector and on the discharge connector. If voltage is less than 46V, please call AQUALEO before charging fully the battery.

12. WARRANTY CONDITIONS

Article 1 – Legal warranty

AQUALEO (the manufacturer) owes to the purchaser the legal warranty defined in Articles 7 and 8 of Law No.67-5 of January 3, 1967 defining the Statute of vessels. This warranty excludes any damage caused by a misuse, deliberate or not, by the owner or one of his relatives (ex: trial, lending, etc.) or one of his customers or resulting from a failure to comply with recommendations, instructions and other information included in this "Owner's Manual".

Article 1.1 – Apparent defects and nonconformities

The delivery releases the manufacturer of its warranty obligation for apparent defects and apparent nonconformities in regard to professional buyers. These must make known the apparent defect or nonconformity at the delivery and in regard to individuals within a maximum of fifteen days after receipt, during which they will conduct all necessary checks.

Article 1.2 – Contractual warranty

In addition to the legal warranties, the Gliss-Speed manufactured by AQUALEO benefits of a contractual warranty for a period of 12 months from the date of reception of the product by the customer when AQUALEO is in charge of the transportation and from the date of collection of the product when AQUALEO is not in charge of the transportation. This warranty includes the replacement or repair (to the choice of AQUALEO) of any part expressly recognized defective by the technical services of Aqualeo, without resulting in the extension of this warranty.

Article 1.3 – Optional warranty

The contractual warranty can be extended to 24 months in metropolitan France subject to the following two cumulative conditions (A and B): (A) The Gliss-Speed should only be used for private purposes (no exploitation or rental). (B) the owner of the Gliss-Speed must perform an annual technical inspection: This inspection will be conducted on request of the owner and within the AQUALEO network (technical bases and distributors authorized by AQUALEO in metropolitan France), by any technician or expert designated by AQUALEO, in exchange for the advance payment of a fee set by AQUALEO. The handling, conveying, parking or immobilization costs related to this visit remain the responsibility of the owner. This inspection must be reported to the manufacturer by sending an intervention bordereau duly completed and signed by the acting professional and by the client.

Article 1.4 – Hull warranty

The hull, i.e. the gunwale and its structure is guaranteed 36 months from the date of first delivery to the original owner against any manufacturing defect recognized by the technical services of AQUALEO (this does not include damages caused by the use of the hull). "Optional" and "hull" Warranties described above do not apply to professionally operated vessels (being specified that any rental exploitation falls into this category) or to Gliss-Speeds engaged in competitions or modified.

Article 1.5 – OTHER warranty

Here after are the guaranteed components :

- Motor/engine
- Hull
- Controller
- DC/DC Converters

- Fuse
- Waterproof (except in case of hurt or damages)
- Water pump
- Dashboard components (Switch and LED)

Article 1.6 – Excluded of guarantee

Following component are exclude of guarantee :

- Bronze base
- Propeller

Article 2 – Common terms to warranties

Any request for support under the guarantee should be formalized by writing to AQUALEO within 8 days from the discovery of the disorder and identify the serial number of the concerned ship and if applicable the references of the part subject to the warranty claim. On the other hand, the request should specify the precise circumstances in which the damage occurred. AQUALEO could, to examine a request, ask for any clarifications and at its own expense nominate an expert or technician of his choice to establish the circumstances of the appearance of disorders and have access to all necessary documents. The contractual warranty in any way prohibits the right to invoke the legal guarantee of Article 1641 of the Civil Code. It is recalled that the owner is subject to the requirement of Article 8 of the Act of January 3, 1967 relating to ships and other vessels of the sea. No immobilization subsequent to highlighted deficiencies and / or replacement work and / or repair whatever its duration shall give entitlement to compensation. Parking fees, duties and others associated costs will remain, in any case, the responsibility of the owner. Any repair and / or replacement will be performed by an authorized AQUALEO agent or any professional duly authorized by AQUALEO. If the nature of the repairs requires that warranty work is realized in the workshops of AQUALEO or any other location different from the place where the Gliss-Speed is located, the costs of return transportation to the site will be borne by the owner.

Article 3 – Warranty limits

AQUALEO guarantees that with normal use and proper maintenance, its products will conform to their specification for a period specified in Article 1.2, subject to conditions, restrictions and exceptions detailed below. Any product that happens to be defective during normal use, during the warranty period will be repaired or, at the option of AQUALEO, replaced by AQUALEO. The responsibility of Aqualeo will be restricted to the repair or replacement of all parts of the product which are defective due to materials or manufacturing. The owner alone is responsible for selecting the appropriate products for his intended use and AQUALEO is not responsible for such a selection. AQUALEO will in no way be responsible for the failure of the Product or the resulting loss or damage and which come from: a) the use of the product in an application for which it is not designed or intended; b) corrosion and deterioration caused by ultraviolet light or normal wear and tear, c) a failure to the revision or maintenance of the product according to the recommendations of AQUALEO, including those listed in this manual; d) an inadequate or defective assembly of the product (unless it has been made by AQUALEO); e) any modification or transformation of the product; f) conditions superior to the performance or maximum working loads specifications of the product. The product subject to a claim under the warranty must be returned for examination at AQUALEO who supplied it unless otherwise stated in writing from AQUALEO.

This warranty does not cover associated costs incurred during the study, removal, transport or assembly of the product. The revision by anyone other than authorized representatives of AQUALEO will void this warranty unless it is in accordance with the indications and manufacturing criteria validated in writing by a representative of AQUALEO. The responsibility of AQUALEO under this warranty will be excluding all other warranties or responsibilities (to the extent permitted by law). In particular (but not limited to): a) AQUALEO will not be responsible for any loss of anticipated revenues, profits or indirect or consequential economic loss, damages and interest, costs or expenses payable to any third party; any damage to the Gliss-Speed or associated equipment; death or personal injury (unless caused by the direct and proven negligence of AQUALEO). Some states or countries do not allow the exclusion or restriction of incidental or consequential damages, in this case the above restriction or exclusion may not apply to you. AQUALEO does not provide other guarantees about the suitability, use, nature or satisfactory quality of products. Where the applicable law does not allow a legal or implied warranty to be excluded, then such a guarantee, if permitted by the law of that state or country, will be limited to a period of one year (12 months) from the date of purchase by the final user. Some states or countries do not allow limitations on the duration of an implied warranty, in which case this restriction may not apply to you.

If any provision of this warranty is recognized invalid or inapplicable in whole or in part by any court or other competent authority, the validity of the remaining provisions of this warranty and the other part of the concerned clause will not be affected.

This warranty gives you specific legal rights. You may also have other legal rights varying from state to state and country to country. In the case of European states, a consuming client (as defined nationally) has legal rights under the applicable national law governing the sale of consumer goods, this warranty does not affect those rights.

This guarantee will be governed by and read in accordance with French laws or the laws of the state or country in which the first final user is domiciled at the time of the purchase.

Any dispute arising under this warranty may, at the discretion of the final user, be subjected either to the Courts of the State whose law governs this warranty, or to the Court of Laval, France.

AQUALEO provides a notice of Warranty Statement of the terms and conditions under which the defect of your boat will be repaired. Please carefully read the warranty and follow the instructions for the use and maintenance. Your warranty cannot be



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assured if the instructions have not been followed properly. If you need specific and further information about your Gliss-Speed, please contact your dealer or directly AQUALEO. By cons, you should read this owner's manual before using your Gliss-Speed. For a good navigation, some nautical terms are to be known.

THIS WARRANTY IS EXCLUSIVE TOWARDS AND AGAINST ALL OTHER WARRANTIES EXPRESSED OR SUGGESTED, THIS WARRANTY EXPRESSLY EXCLUDES SUGGESTED WARRANTIES, INCLUDING, BUT NOT LIMITED TO THE SUGGESTED WARRANTY OF MERCHANTABILITY OR OF SUITABILITY FOR A PARTICULAR PURPOSE, EXCEPT AS STATED IN PARTICULAR IN THIS WARRANTY. THE ONLY REQUIREMENT FOR AQUALEO, AND YOUR EXCLUSIVE REMEDY UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING, TO THE OPTION OF AQUALEO, DEFECTIVE PARTS. IN THE EVENT THAT CORRECT REPLACEMENT PARTS OR BOATS ARE NOT AVAILABLE AT THE TIME OF WARRANTY CLAIM, AQUALEO MAY BE SUBSTITUTING THEM BY OTHERS OF EQUAL OR BETTER QUALITY; THE CUSTOMER ACCEPTS THIS REPLACEMENT BY SATISFACTION OF THE GUARANTEE STATED IN THESE TERMS. AQUALEO WILL NOT BE HELD RESPONSIBLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR QUOTAS DAMAGES WHATSOEVER.

If you cannot find an authorized AQUALEO dealer, or if the merchant does not provide satisfying worldwide guarantee, contact us on www.gliss-speed.com.

13. TRANSFER OF OWNERSHIP**OWNERSHIP TRANSFER CERTIFICAT**

The Gliss-Speed,

Model : _____

Serial number : _____

From : Mr / Mrs : _____

Address : _____

VISA : ZIP CODE : _____

City : _____

Country : _____

Date of purchase : _____

being sold

To : Mr / Mrs : _____

Address : _____

VISA : ZIP CODE : _____

City : _____

Country : _____

Date of purchase : _____

Established at : _____

Date : _____

Return this copy within 15 days after the transaction to

AQUALEO SARL - SERVICE SAV

ZA de la Mairie

53410 ST OUEN DES TOITS

FRANCE

14. RECEIPT**RECEIPT**

From : Mr : _____
Address : _____
ZIP CODE : _____
City : _____
Country : _____

Owner of the Gliss-Speed

Model boat : _____

Serial number : _____

Date of reception : _____

Certifies receipt of this manual with my Gliss-Speed and read all the information it contains.

Established at : _____

Date : _____

Return the copy within 15 days after the transaction to :

AQUALEO SARL - SERVICE SAV
ZA de la Mairie
53410 ST OUEN DES TOITS
FRANCE

OPERATING GUIDELINES



HOW TO DRIVE SAFELY?

Always stay seated onboard. Keep your hands on the handles when driving. Watch in all directions for other boats and obstacles. Keep enough distance with other boats and obstacles (10-15 ft). Go slowly few minutes in order to be aware about how to drive the boat, turn and stop. Then have fun!

HOW TO START SAFELY?

Put the gear selector (on the top right area of the command panel (CP) in front of you) to the « N » (neutral) position. Then put the « ON – INIT – OFF » button to the « INIT » position for few seconds (you should hear a « pop » noise), then put it on the « ON » position. The engine is now powered.

HOW TO GO AHEAD OR BACK?

To go ahead, put the gear selector to the « AV » position and push slowly the accelerator pedal (AP) under your right foot. The boat will move forward. Put it on the « AR » position to go back. The gear selector position can be set at anytime. More and more you push the pedal, the engine is running fast.

HOW TO TURN (LEFT OR RIGHT)?

Press the LEFT HANDLE (LH) to turn LEFT. Press the RIGHT HANDLE (RH) to turn RIGHT. The more you press a handle, the more you will turn. Be careful, like riding a bike, the turn will occur only if the boat is not stopped, a minimal speed is required to enable a turn. You may have a big turn at full speed.

HOW TO STOP AND REDUCE THE SPEED?

Like other boats, there is no braking system onboard. You will reduce your speed (until you stop) using the water as a brake. Stop pushing the accelerator pedal OR put the gear selector to the « N » position. The propeller rotation will stop, so the boat will reduce its speed and stop few meters later.

HOW TO GO BACK TO THE DOCK SAFELY?

Stop pushing the acceleration pedal OR put the gear selector to the « N » position AT LEAST 10-15 feet before the dock and try to arrive at an angle of 30-45 degrees to the edge of the dock. If the inertia is not sufficient, put the gear selector on the « AV » position and push slowly the accelerator pedal.

HOW TO ADJUST YOUR MAX SPEED?

Put the speed selector (V1 – V2 – V3 button) on the desired position at anytime. V3 will allow 100% of the power, V2 = 75% and V1 = 50%. This selector has a key which can be removed at anytime. If you choose to remove it, do not forget to make sure the key will not go into the water and will not be lost.