

Manuale d'Uso e Manutenzione
Operating and Maintenance manual
Betriebs- und Wartungsanleitung
Manuel d'Utilisation et d'Entretien
Manual de Uso y Mantenimiento

aQUA®
SCOOTER

mod. **AS650 C €**
NORM - CARB - EPA



Comer®
S.p.A.

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SERIAL NUMBER AND YEAR OF MANUFACTURE



!! Warning!

Do not keep the engine running out of the water for more than 10 seconds.

Do not allow water to enter through the snorkel or in the fuel tank.

Take care when refuelling.
Water may be present.

WARNINGS.

Our sincerest congratulations on becoming the Owner of this
FANTASTIC AQUASCOOTER.

- The Aquascooter is a unique product, designed and built with the greatest attention to the user's health and safety, and protection of the environment.

- No other machine is so complete. It is ideal for a number of recreational uses.

- It is a simple 2-stroke engine that will give you many hours of enjoyment if used and serviced correctly. **It is designed for your leisure time and not as an instrument of work.**

Failure to comply with the operation and maintenance procedures will void the warranty. Read this manual carefully before using your Aquascooter: in this way you can prevent damage to the engine and avoid costly repairs.

- The manual, the declarations of conformity and power engine are integral parts of the machine. It must be kept in a safe place and delivered with the machine if it is sold to a new user.

- The information in this manual may change without prior notice, without prejudice to the safety-related technical characteristics.



This danger symbol in the manual draws your attention to important instructions concerning safety. Failure to comply with such instructions can cause serious injuries to persons.

- Any jobs or repairs the customer feels he is unable to do himself should be carried out by authorised service centres, **with the fuel tank empty.**

1 - WARRANTY TERMS

- The warranty is valid for 24 months from the date of delivery, **so long as the certificate is filled out correctly and forwarded within 8 days from the purchase date.** During this warranty period, COMER S.p.A. undertakes, after having carried out the due technical assessments, to repair and/or replace the defective parts for which the manufacturer is responsible.

WARNING! Tampering voids the warranty.

- **The costs of any labour, forwarding expenses and sending spare parts** are always at the purchaser's complete charge.

WARNING! for Service Centres

- Parts replaced under warranty must be returned to the manufacturer with a copy of the warranty within 20 days at most, or the warranty will become void.

IN ANY CASE THE MANUFACTURER DECLINES ALL LIABILITY FOR:

- Modifications made without the manufacturer's approval.

- Use of accessories not contemplated by the manufacturer.

- Improper use of equipment with snap-hooks, cords around the fuel tank, collisions with rocks, etc.

- Failure to comply with the instructions in this manual.

- Failure to comply with the safety regulations and recommendations in this manual.

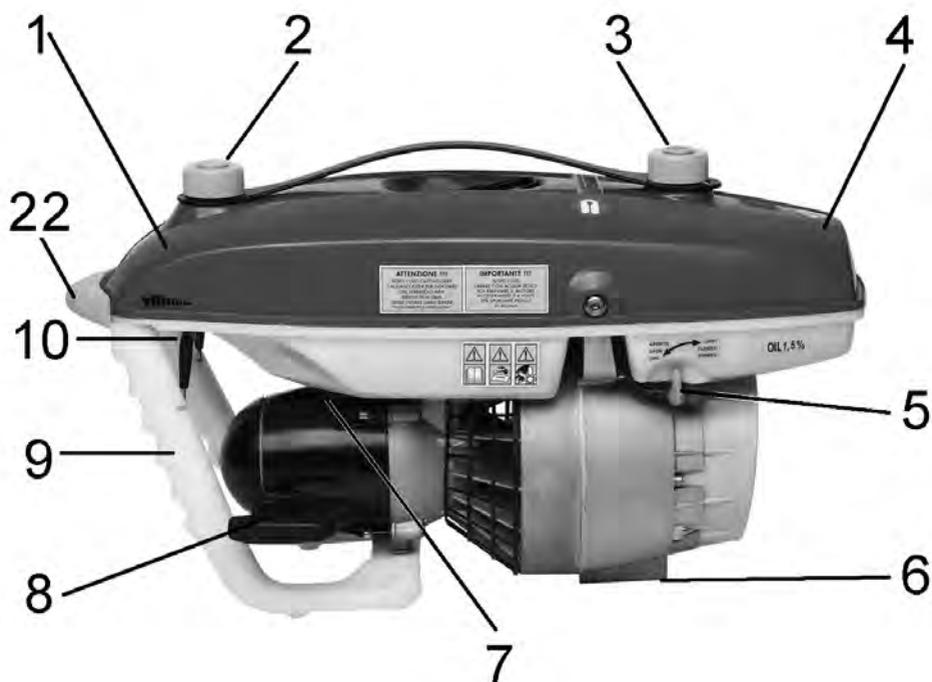
- When the engine has blocked owing to the entrance of water.

- Failure to comply with the general and basic rules of caution and prudence.

- COMER S.p.A. declines all liability for damage to persons, things or the machine itself caused by incorrect or improper use of the same.

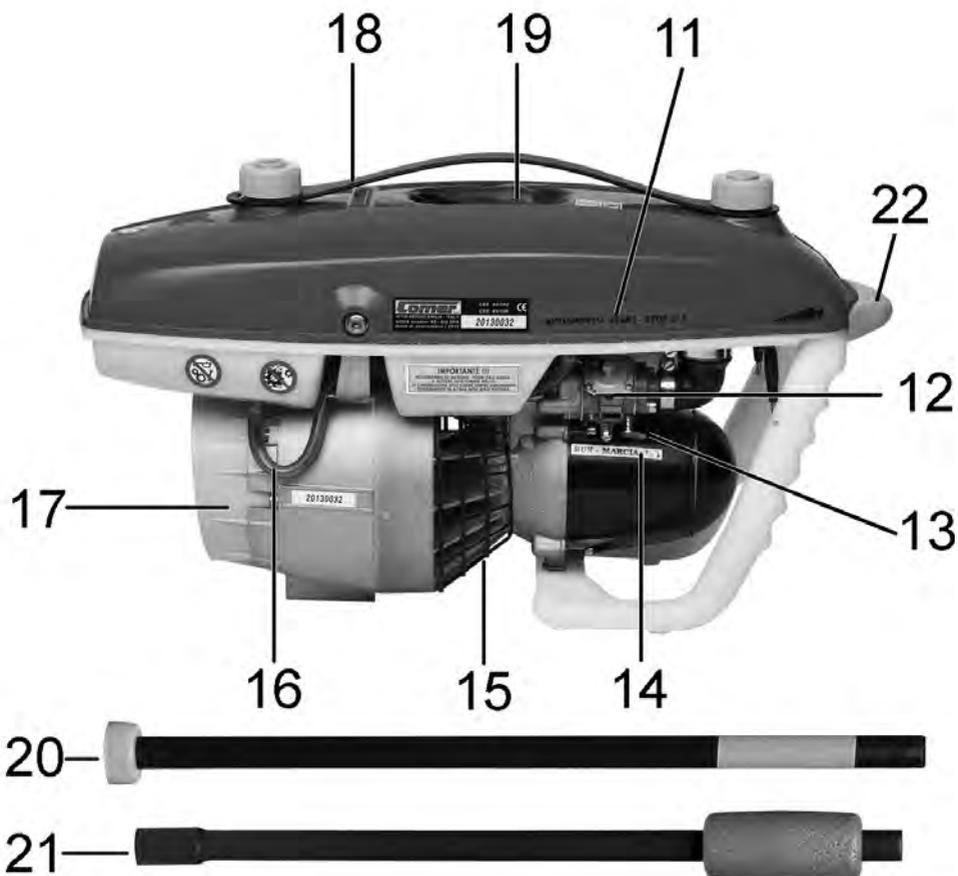
All disputes are the competence of the Court of Reggio Emilia.

2 - TECHNICAL DATA



2.1 - COMPONENTS

- 1 - AIR TANK
- 2 - AIR TANK PLUG FOR SNORKEL CONNECTION
- 3 - FUEL TANK PLUG
- 4 - FUEL TANK
- 5 - FUEL VALVE
- 6 - EXHAUST GAS OUTLET
- 7 - FUEL PIPE
- 8 - STARTER HANDLE
- 9 - STEERING HANDLE
- 10 - THROTTLE LEVER



- 11 - **“AVVIAMENTO - START - STOP”** POSITIONS
- 12 - CARBURETTOR TO CARB - EPA STANDARDS
- 13 - **“START AND RUN”** LEVER
- 14 - **“RUN/MARCIA”** POSITIONS
- 15 - PROTECTIVE GRILLE **CE**
- 16 - FUEL TANK BREATHER PIPE
- 17 - PROPELLER GUARD AND WATER DEFLECTOR **CE**
- 18 - CARRY HANDLE
- 19 - SPARK PLUG
- 20 - AIR INTAKE TUBE (SNORKEL)
- 21 - SNORKEL EXTENSION
- 22 - RUBBER BUMPER

2.2 - TECHNICAL SPECIFICATIONS 650 C €

2-stroke, direct drive engine	
Power output at 5000 rpm	2 HP - 1.47 KW
Swept volume	49 c.c.
Thrust	22 kg
Ignition	Electronic C.D.I.
Spark plug	Bosch WR 10 BC
Fuel tank capacity	2 l. (no reserve)
Fuel mixture with synthetic oil (biodegradable)	1,5%(100:1,5) first 5 hours
Autonomy of operation (approx.)	2 hours
Weight	7.00 kg
Dimensions	530 X 300 X 195 cm

2.3 - AIRBORNE NOISE AND VIBRATIONS

Sound Pressure Level: continuous equivalent sound pressure measured at the ear of the user, measured conventionally at a height of 20 cm and at the centre of the tank, with the engine supplying 1.2 kW at 4000 rpm.: LAeq = 75 dBA

Vibrations: weighted mean square value in frequency to which the upper limbs are subjected, with engine at 85% of top speed, in accordance with ISO standards = 10m/s².

2.4 - EQUIPMENT SUPPLIED:

Spark plug wrench, spark plug, funnel, starter rope, biodegradable oil.

Warranty - Declaration of conformity and engine power, use and maintenance manual.

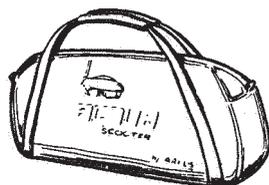
OPTIONAL ACCESSORIES:

- Carrier bag
- "AQUA MAT" mattress

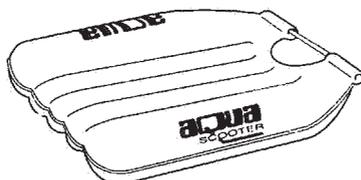
SYNTHETIC
oil mixture



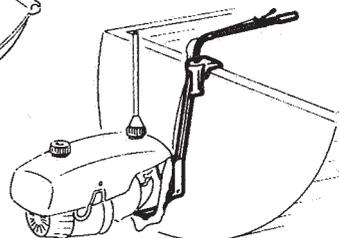
30 ml.



Carrier Bag



AQUA MAT



Boat Bracket

4 - SYMBOLS AND PICTOGRAMS

- The following pictograms are affixed to the tank (see page 4 - 5). Always pay particular attention to them and bear in mind what they mean:



It is obligatory to read the whole manual carefully before using the machine.



DANGER of electric shock; do not let any part of your body touch the electrical parts of the machine.



Turn off the engine before proceeding with any maintenance or repairs.



DANGER of amputation due to the presence of the propeller.



Do not lubricate, clean or perform maintenance on the machine while it is running.



It is forbidden to remove the protective covers when the machine is running.



Do not smoke near the machine.



It is obligatory to put on a lifejacket before getting into the water.

5 - PREPARING THE MACHINE

- The machines are equipped with handy carrying points.
- They are shipped from the factory in specific packaging.
- The machines are tested before delivery. Prior to using the machine and with the engine off, always make sure the protective covers have not been tampered with and that there is no evident damage.

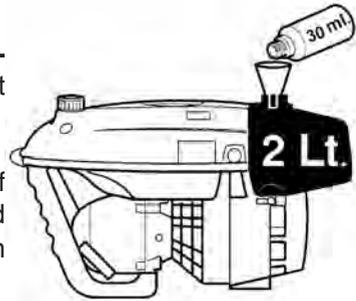
5.1 FUELLING

Fuel: use unleaded petrol.

Oil: special synthetic oil at 1,5% (**100 parts petrol to 1,5 parts oil**), which guarantees excellent lubrication.

How to prepare the mixture: pour one litre of petrol into the tank through the rear inlet marked with the symbol . Add the oil and then pour in the remaining litre of fuel.

WARNING. Do not fill the tank right up to the brim. Leave a small amount of air above the level of the fuel. Screw on the plug and shake for 5 seconds, then unscrew the tank plug to relieve any overpressure before screwing it back on again.



BEFORE USE:

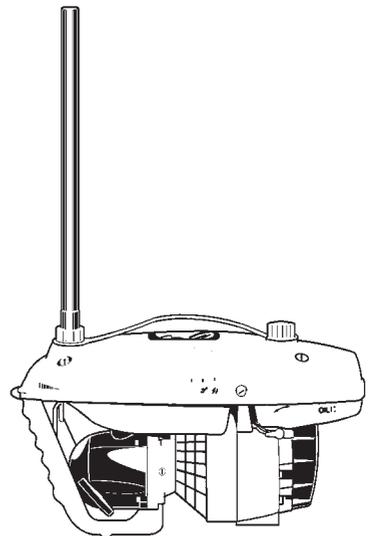
1 - Unscrew the air tank plug and fit the snorkel in its place.

WARNING. Make sure the snorkel is fully tightened.

WARNING!!

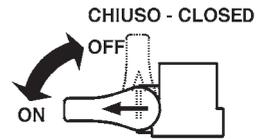
Do not fully empty the can used for fuelling as it may contain water.

Do not refuelling while the machine is in the water: even only a few drops of water in the fuel tank can damage the carburettor and the engine.

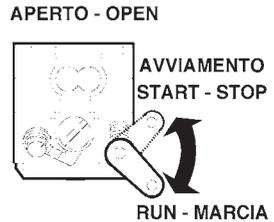


5.2. STARTING

1 - **Open the fuel valve** by moving the yellow lever to the horizontal “APERTO-OPEN” position.



2 - **Turn the red lever of the carburettor** anticlockwise to the “AVVIAMENTO-START-STOP” position for a cold start and after a LONG IDLE PERIOD only.



3 - Grip the steering handle with one hand, while moving the throttle lever to full throttle position.

4 - Pull the starter handle up to three times with your other hand. When you hear the engine fire, move the carburettor lever immediately back to the “RUN/MARCIA” position by turning it clockwise.

Pull the starter cord again until the engine starts.

When the engine has started, accelerate up to 2-3 times before getting into the water.

WARNING. Do not allow the engine to run for more than 10 seconds out of the water or the piston will begin to deform through overheating.

NOTE: Follow the procedure described in points 1-2-3-4 with a new machine and for cold starts. Just pull the starter cord with the carburettor lever still in the “RUN/MARCIA” position if you are starting with the engine still hot either on the beach or in the water.



5.3 - STOPPING THE MOTOR

1- For short stops: block the opening of the snorkel with a finger, leaving the fuel tap and the carburettor lever in the “run” positions. It will be easier to start the engine the next time, because you just have to pull the starter cord with the accelerator always at maximum.

2 - For longer stops (when the engine has cooled down): stop the engine with the carburettor lever in the “AVVIAMENTO-START-STOP” position.

Now immediately move the lever back to the “RUN/MARCIA” position. It will be easier to start the engine again, with the accelerator always at maximum.

NOTE: If the Aquascooter does not start in the water, follow the cold start procedure by moving the carburettor lever to the “AVVIAMENTO-START-STOP” position and pull the starter cord **once only**. Then move the lever back to the “RUN/MARCIA” position and start again.

6 - USE IN SAFE CONDITIONS

- Only carry the Aquascooter by its handle. Do not let it fall sideways into the water because water will enter the snorkel and block the engine.

- Hold the steering handle and hold down the throttle with your thumbs.

- Do not use the engine at top rate for the first 10 hours.

- Use the Aquascooter with your arms outstretched. Keep your body and legs in a relaxed horizontal position to reach top speed.

- Keep the snorkel well out of the water and use the extension.

- Make sure you do not accidentally touch the red carburettor lever during use, as this will stop the motor immediately.

- Avoid zones with banks of algae, shallow water and rocks (these can damage the propeller).

- If you let go of the Aquascooter when it is running, it will perform a slow turn around you and can be easily recovered.

Avoid this operation when there are bathers present, in rough seas, where there are strong currents, or if the carburettor has not been properly adjusted to allow the engine to idle (you could lose the Aquascooter).

- You can stop the Aquascooter and start it again in the water. In the case of brief stops, to start again just pull the starter with one hand, while using the other to hold the steering handle with the accelerator at maximum.

For longer stops, use the cold start procedure to start again.

IMPORTANT - The Aquascooter is only a surface craft for one person. In order to run, the engine needs air to come in through snorkel, but if water should get in through the snorkel, it can cause serious problems with the internal parts of the motor.

a) **Always use the snorkel with the extension, especially in rough seas.**

b) Fully tighten the ring nut on the snorkel and the fuel tank plug. **Check to make sure that the gaskets are not damaged.**

c) Absolutely avoid situations that could let water get into the snorkel (rough sea, user acrobatics under the water, throwing the machine into the water, overturning, etc.).

6.1 - USE, TECHNIQUES AND PRECAUTIONS

- If just a few splashes of water get in, this water will remain in the bottom hollows inside the air tank without causing damage. **However, it is advisable to empty out any water as soon as you get back to the beach.**

- **It's an entirely different matter if a large amount of water flows quickly into the snorkel.** This happens in particular if the end of the snorkel becomes submerged, causing a mass of water to suddenly flow in and stop the engine immediately. **The water must be emptied out as soon as possible, or the engine will be irreparably damaged.**

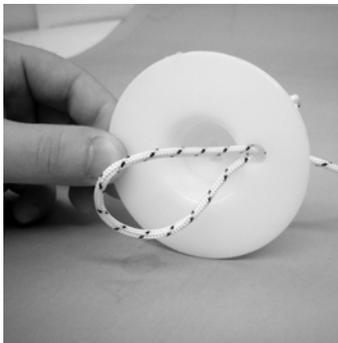
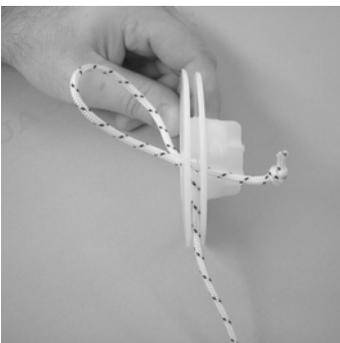
SOLUTION !

Drain any water out of the tank immediately. Then drain the machine completely in the following way.

- 1) Shut off the fuel valve (OFF - CLOSED - CHIUSO).
- 2) Unscrew the snorkel and the spark plug.
- 3) Turn the aquascooter upside down and pull the starter repeatedly (as many as 8 times) until all the water has been drained out of the engine. This is the only way to avoid the damage to the internal parts of the engine through rust. After this, replace the spark plug and open the fuel valve again (APERTO -OPEN - ON).
- 4) Now attempt to start the engine according to the normal procedure; if the machine fails to start, clean or replace the spark plug. Start the motor again using the cold start procedure. **It is important to get the engine started and to then get into the water and use the aquascooter for at least 10 minutes.**

WARNING - If the engine has stopped because water has got into the snorkel, and after repeatedly draining the engine and attempted starts you cannot get it to re-start, it is advisable to unscrew the spark plug, fill the cylinder with the oil used in the mixture (20 ml) and to pull on the starter cord slowly 2-3 times. Then contact your nearest Aquascooter Service Centre within 48 hours.

Starter rope and spring replacement.



6.2 - PRINCIPAL SAFETY REGULATIONS.



- Aquascooter is designed for use by good swimmers. A lifejacket must be worn at all times.
- Keep at a safe distance from the beach (do not go out farther than you can swim back).
- The Aquascooter is not a buoyancy aid and is not designed to support the weight of a person in the water.
- Long hair, ribbons, cords, necklaces, etc. must be kept away from the propeller. If you have long hair, wear a bathing cap (long hair can be caught up by the propeller).
- Children should only use the Aquascooter under adult supervision.
- Beware of obstacles under water or on the surface.
- Always avoid getting too close to other bathers or craft in the water.
- Never leave the Aquascooter running and unattended in zones where there are other people.
- Do not put anything into the water intake deflector (propeller guard).
- Do not smoke while refuelling, emptying or preparing the fuel mixture.
- Only start out with a full fuel tank (roughly 2 hours of run time). There is no reserve.
- Do not start the engine in closed environments (the exhaust gases are toxic).
- Empty the fuel out of the Aquascooter before transporting it on any type of vehicle. Use metal containers for the fuel that comply with the law.
- The Aquascooter is not for diving. Keep the intake of the snorkel well above the surface of the water and check frequently for any traces of water in the air tank: if there is any water, empty it out.
- If necessary, the Aquascooter can be turned off quickly by blocking the snorkel with a finger, or with the START-STOP lever.
- Do not tamper with the controls and never remove the safety systems and guards of the machine, even momentarily.
- Do not inhale the exhaust gas.

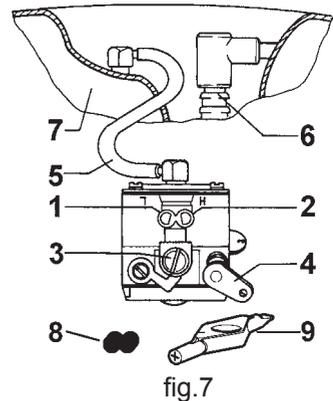
7 - CARBURETTOR

- The Aquascooter has a carburettor with two membranes. The first membrane acts as a pump, drawing the fuel from the tank and into the engine as required. Faults involving this pump-membrane are extremely rare.

- The second membrane, located in the bottom part, regulates the flow of fuel and needs to be connected to the external atmospheric pressure so as to regulate the fuel to suit the engine's needs. In normal engines that do not run in the water, this is done with a simple hole in the cover of the membrane. The Aquascooter's carburettor has to run in the water, so this system cannot be used. There is therefore a rubber tube connecting the carburettor to the atmospheric pressure in the air tank (5, fig.7).

7.1- ADJUSTMENTS.

- 1 - Idling/Medium rate adjuster screw (γ)
2 turns
- 2 - Full throttle (H) rpm adjuster screw 1
and 3/4 turns
- 3 - Idling adjuster screw
- 4 - "Start and Run" lever
- 5 - Membrane pressure compensation tube
- 6 - Spark plug
- 7 - Air tank
- 8 - Rubber stopper for closing the carburettor
screws
- 9 - Adjusting key



- This engine has been designed and built in accordance with CARB-EPA Exhaust Emission Standards.

- The Exhaust Emission Control System includes the fuel system, the intake system and, more importantly, the carburettor: **designed to allow only adjustments of screws γ and H in a preset range established by the manufacturer that cannot be modified by the user.**

You can only adjust the throttle valve "idling" adjuster screw (3, fig. 7) to regulate the engine in the water if it stops when idling.

7.2 - WARNING: With the Aquascooter out of the water and the accelerator at full throttle, the engine must always be abundantly supplied with fuel, otherwise you will not obtain maximum power in the water.

If faults or fuel problems occur, contact your nearest dealer who can adjust the relevant screws γ and H by 1/8 of a turn with a special wrench, to find the optimal setting and allow the engine to function without stopping in the water.

8 - MAINTENANCE



Before servicing the Aquascooter in any way, turn the off the engine and take care of any hot parts that could scorch the skin.

After use, even when stopping for only a few hours, comply with the "Short stops" procedure to prevent the internal parts of the engine from rusting or the engine from seizing (which would require costly repairs).

NOTE: Traces of corrosion in the engine are due to the user's failure to comply with the procedures described in this manual. This situation, testified by the corrosion inside the engine, is regarded as negligence and voids the warranty.

9 - SHORT STOPS

At the end of each day of use and even for brief periods of effective use of the machine:

1 - Unscrew the snorkel and turn the Aquascooter upside down to empty all traces of water out of the air tank.

Slowly turn the Aquascooter so the water can gradually flow out of the air tank intake. Turning the machine over suddenly may allow water to flow into the carburettor.

2 - Start the Aquascooter out of the water and run it only for 10 seconds, inclined at 30°, at different speeds, using various positions of the accelerator. This warms the engine up sufficiently to eliminate any water that may have entered or condensed in the combustion chamber, engine block or silencer.

WARNING: To avoid overheating the engine, never allow it to run out of the water for more than 10 seconds and never at full throttle speed. After 10 seconds the piston begins to overheat and can become deformed with possible seizure.

3 - After running the engine out of the water, turn it off by blocking the snorkel or, even better, with the START-STOP lever.

LONG STOPS (e.g.: at the end of the season)

1 - **If it has been used in salt water, wash the outside of the Aquascooter with fresh water.**

2 - Unscrew the SNORKEL and turn the Aquascooter upside down to eliminate any water from the tank.

3 - Allow the Aquascooter to operate with a fuel mixture at 6% for not more than 12 seconds at different speeds, then stop it by moving the carburettor lever to the "STOP" position with the engine at top rate.

4 - Close the air tank with its plug.

5 - Empty the fuel mixture from the tank to eliminate any drops of water.

6 - Turn off the fuel valve.

7 - Store the Aquascooter in a dry, sheltered place.

WARNING: If you cannot test the Aquascooter, remove the spark plug and pour 20 ml of fuel mixture oil into the cylinder. Slowly pull the starter cord 2-3 times so the oil lubricates all the parts. Screw the spark plug back on.

10 - TROUBLESHOOTING

- Most problems can be solved simply with a little patience, by systematically checking the initial procedure for "Preparing the machine" (page 8) and the starting procedure (page 9).

- For example, if the engine fails to start, make sure there is fuel mixture in the tank and that the fuel valve is open. Have you installed the snorkel in place of the plug on the air tank? Have you changed the spark plug? You might have flooded the engine.

- If you cannot find the problem after having followed this procedure, take your Aquascooter to the nearest Service Centre, as you would for any other machine. Any judgement as to the performance of the Aquascooter must be made in normal conditions of use in the water. This procedure presumes that the fuel mixture used is in the correct proportions and that the machine has not been modified (for example, fitted with an unsuitable spark plug, filled with the wrong oil, tampering with the carburettor screws and fuel lines, tampering with the intake connector, clamps and screws, assembly of cords and snap hooks).

A) THE MACHINE FAILS TO START OR IS DIFFICULT TO START:

- Are you following the correct starting procedure? (page 9)

- Make sure that the red carburettor lever is in the correct position.

- Is the spark plug wet? Clean, dry, or replace if necessary (in some cases, this operation must be repeated). Try starting again with the red carburettor lever in "RUN/MARCIA" position.

- Water in the fuel tank: empty the entire contents of the tank, and replace with new fuel. Check the carburettor: may contain drops of water.
- Check the plug: it may not have been closed properly, or the plug seal may be damaged and water may have entered the carburettor (which must be replaced).
- Check that the fuel draw pipe is correctly positioned on the bottom of the tank. Make sure that the tubes are not broken and that the draw pipe is not clogged.
- Idling adjustment wrong: follow the procedure (page 13, fig. 7).

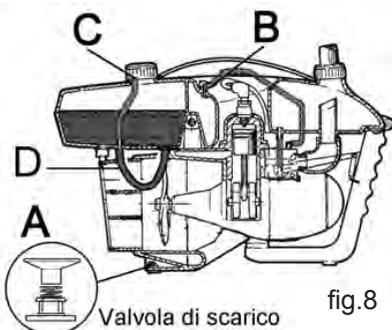


B) THE ENGINE STOPS WHEN THE MACHINE IS PLACED IN THE WATER:

- 1 - If the engine stops when the water reaches the spark plug, a solution is to fill the inside of the spark plug cap with grease or Vaseline. Install a new, original spark plug cap as soon as possible.
- 2 - The throttle valve idling adjuster screw is not adjusted properly: turn clockwise.
- 3 - The engine slows in the water when cruising at full power: is poor power from the carburettor, turn the H screw anticlockwise for 1/8 of a turn (page 13, fig. 7).

OTHERWISE

- 4 - Light blue breather tube (D, fig. 8) blocked or full of fuel. Remove from the tank and clean.
- 5 - Intake elbow clamps loose.
- 6 - The engine fails to tick over in the water?
- 7 - Piston worn due to water entering from the snorkel, the intake union, the exhaust valve or the fuel tank.
- 8 - Tank breather. The rubber valve is in the small internal tube in the fuel tank inlet: check that it is there and move the internal part with a pin (C, fig. 8) to allow a small amount of air to pass through.

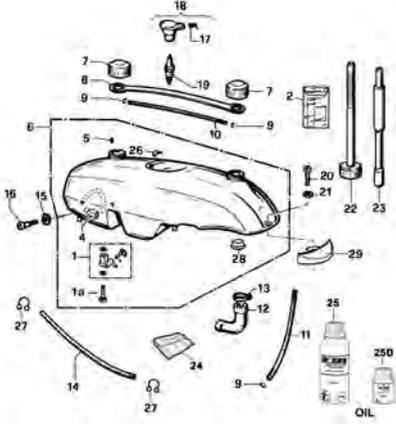


- Make sure that the exhaust gas valve is not deformed or flat. If it is, dismantle it with a screwdriver, start the engine, and then reassemble it or replace it (A, fig. 8).

- Replace the exhaust valve at least twice a year to prevent water from entering the engine.

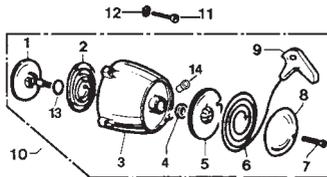
Warning: It is absolutely essential to empty the fuel tank if you send your Aquascooter away for repairs.

Fig.1 SERBATOIO / TANK



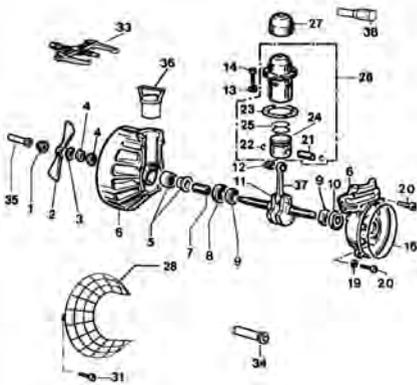
POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Rubinetto completo	Fuel shut-off cock, compl.	7000 2033	1
1a	Vite rubinetto	Shut-off cock screw	70001066	1
2	Set adesivi	Decal set	7000 1013	1
4	Pesca carburante	Fuel pick-up	7000 1061	1
5	Valvola sfiato	Valve	7000 1039	1
6	Serbatoio	Tank	7000 2010	1
7	Tappo	Cap	7000 2005	2
8	Manico trasporto	Carry handle	7000 1017	1
9	Clip Ø 6	Clamp Ø 6	7000 1068	3
10	Tubo compensazione cm.20	Pressure relief hose cm.20	7000 0003	1
11	Tubo carburante cm.30	Fuel hose cm.30	7000 0003	1
12	Raccordo aspirazione	Intake elbow	7000 1055	1
13	Fascetta	Clamp	7000 1056	1
14	Tubo sfiato	Pressure relief hose	7000 1054	1
15	Rondella	Washer	7000 1037	2
16	Vite laterale	Screw, lateral	7000 1024	2
17	Molla candela	Spark plug spring	7000 1095	1
18	Cappuccio e molla	Cap and spring	7000 1093	1
19	Candela Bosch.	Spark plug Bosch	7000 1133	1
20	Vite frontale 5x25	Screw, cruise handle 5x25	7000 1038	1
21	Rondella	Washer	7000 1021	1
22	Snorkel	Snorkel	7000 2001	1
23	Prolunga snorkel	Snorkel extension	7000 2002	1
24	Busta attrezzi	Tool kit	7000 1010	1
25	Conf. olio mix 150 ml.	Oil mix bottle 150 ml.	7500 9001	1
25D	Conf. olio mix 30 ml.	Oil mix bottle 30 ml.	7500 9002	1
26	Raccordo a 90°	Elbow 90°	7000 1069	1
27	Clip Ø 8	Clamp Ø 8	7000 1072	2
28	Boccola serbatoio	Tank bush	7000 1063	1
29	Paracolpi in gomma	Rubber bumper	7000 2046	1

Fig.2 AVVIAMENTO/STARTER SYSTEM



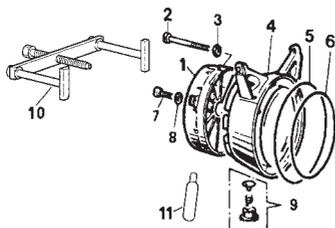
POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Inserto puleggia	Starter pulley axle	7000 1047	1
2	Molla avviamento	Starter spring	7000 1051	1
3	Scat. avv. c/parallolo	Starter housing w/oil seal	7000 2040	1
4	Anello di tenuta	Water seal	7000 1050	1
5	Puleggia avviamento	Starter pulley	7000 1046	1
6	Funiciella avviamento	Starter rope	7000 2009	1
7	Vite conica 4x16	Conical screw 4x16	7000 1049	1
8	Catolita	Nosepiece	7000 1045	1
9	Impugnatura avviamento	Starter handle	7000 1052	1
10	Avviamento completo	Starter compl.	7000 2007	1
11	Vite scatola 5x25	Screw, starter housing 5x25	7000 1022	4
12	Rondella	Washer	7000 1018	4
13	O.R. perno puleggia	O ring, starter axle	7000 1062	1
14	Boccola x fune	Bush for rope	7000 1044	1

Fig.3 BLOCCO MOTORE / ENGINE BLOCK



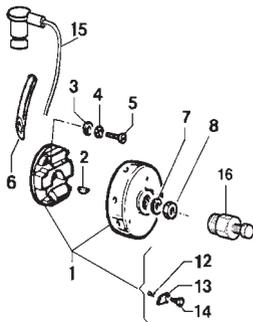
POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Dado autobloccante elica	Nut, propeller	7000 1020	1
2	Elica	Propeller	7000 2004	1
3	Disco di protezione	Protection sleeve	7000 1086	1
4	Anello di tenuta elica	Water seal	7000 1091	2
5	Kit gabbia e boccola	Needle bearing kit	7000 2037	1
6	Coppia basamenti	Crankcase assy	7000 2020	1
7	Distanziale	Sleeve	7000 1125	1
8	Cuscinetto elica	Propeller bearing	7000 1089	1
9	Anello tenuta alb.Witon	Witon oil seal	7000 1092	2
10	Cuscinetto lato volano	Bearing, flywheel side	7000 1090	1
11	Albero motore Ø 41 SM	Crankshaft-needle bearing	7000 2032	1
12	Astuccio a rulli	Crankshaft-needle bearing SM	7000 1140	1
12a	Gabbia a rulli sfiliabile	Upper needle bearing	C050-048	1
13	Rondella	Sliding needle bearing	7000 1131	1
13a	Rondella	Washer	7000 1018	4
14	Vite cilindro 5x20	Screw, cylinder 5x20	7000 1081	4
16	O.R. tenuta volano	O ring, flywheel side	7000 1088	1
19	Rondella	Washer	7000 1018	6
20	Vite basamenti 5x40	Screw 5x40	7000 1032	6
21	Spinotto	Piston pin	7000 1118	1
22	Anello di fermo	Piston pin clip	7000 1116	2
23	Guarnizione cilindro	Cylinder gasket	7000 1028	1
24	Pistone completo Ø 40	Piston complete Ø 40	7000 1120	1
25	Pistone completo Ø 41 SM	Piston complete Ø 41 SM	7000 1142	1
25	Segmenti Ø 40	Piston rings Ø 40	7000 1119	2
25	Segmenti Ø 41 SM	Piston rings Ø 41 SM	7000 1144	2
26	Kit cilindro / pistone Ø 40	Cylinder / piston kit Ø 40	7000 2035	1
26	Kit cilindro / pistone Ø 41 SM	Cylinder / piston kit Ø 41 SM	7000 2044	1
27	Cuffia cilindro	Cylinder head	7000 1071	1
28	Griglia protezione CE	Safety-Grid CE	7000 1025	1
29	Set guarnizioni + O.R.	Set gasket + O ring	7000 2030	1
31	Vite protezione 4x10	Safety screw 4x10	70001036	5
32	Blocco motore assemblato	Engine assy assembly	7000 1078	1
33	Estrattore elica	Propeller puller	7000 2036	1
34	Tampone paraolio	Oil seal buffer	7000 1000	1
35	Tampone paraolio elica	Propeller oil seal buffer	7000 1000	1
36	Boccola chius. basamento	CrankCase lock bush	7000 1139	1
37	Biella completa	Connetting rod	7000 1110	1
38	Perno ferma pistone	Piston check pin	KACC-126	1

Fig.4 MARMITTA / MUFFLER



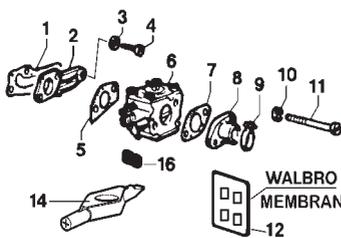
POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Convogliatore acqua	Propeller guard	7000 1014	1
2	Vite marmitta 5x90	Screw, muffler 5x90	7000 1023	2
3	Rondella in rame	Copper washer	7000 1080	2
4	Marmitta	Muffler	7000 2026	1
5	O.R. di tenuta grande	O. Ring (large)	7000 1103	1
6	O.R. di tenuta medio	O. Ring (medium)	7000 1104	1
7	Vite convogliat. 4x16	Screw, guard 4x16	7000 1082	2
8	Rondella	Washer	7000 1031	2
9	Kit valvola di scarico	Exhaust valve kit	7000 2034	1
10	Estrattore marmitta	Muffler extractor	7000 2031	1
11	Tampone scarico	Muffler buffer	7000 2041	1

**Fig.5 ACCENSIONE ELETTRONICA
ELECTRONIC IGNITION**



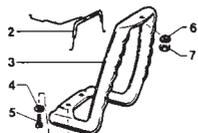
POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Accensione elettronica	C.D.I. ignition	7000 1132	1
2	Chiavetta	Woodruff key	7000 1070	1
3	Rondella	Washer	7000 1031	2
4	Grover ø 4	Grover ø 4	7000 1065	2
5	Vite statore 4x16	Screw electric system 4x16	7000 1082	2
6	Gommino passacavo	Grommet, stop cord	7000 2019	1
7	Grover ø 8	Grover ø 8	7000 1084	1
8	Dado fissaggio volano	Nut flywheel	7000 1040	1
12	Molla arpioncino	Starter pawl spring	7000 1108	2
13	Arpioncino	Starter pawl	7000 1109	2
14	Perno fissaggio arpioncino	Pin starter pawl	7000 1107	2
15	Cavo con cappuccio	Hose with cap	7000 1136	1
16	Estrattore volano	Flywheel puller	7000 1130	1

**Fig.6 CARBURATORE WALBRO
WALBRO CARBURETOR**



POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
1	Guarnizione flangia	Flange gasket	7000 1074	1
2	Flangia per Walbro	Walbro flange	7000 2015	1
3	Rondella	Washer	7000 1018	1
4	Vite flangia 5x20	Screw, flange 5x20	7000 1081	1
5	Guarnizione carburatore	Carburetor gasket	7000 1076	1
6	Carburatore Walbro	Walbro carburetor	7000 1128	1
7	Guarniz. collettore	Intake flange gasket	7000 1077	1
8	Collettore aspirazione	Intake flange	7000 2017	1
9	Fascetta	Clamp, intake elbow	7000 1034	1
10	Rondella in rame	Washer	7000 1080	2
11	Vite carburatore 5x67	Screw, carburetor 5x67	7000 1073	2
12	Set membrane Walbro	Walbro diaphragm set	7000 1122	1
13	Prova carburatore	Carburetor tester	KACC 140	1
14	Chiave carburazione	Carburetor wrench	7000 1124	1
15	Set guarnizioni 1/5/7/23	Set gasket 1/5/7/23	7000 1137	1
16	Tappino in gomma	Small rubber cap	7000 1145	1

Fig.7 IMPUGNATURA / CRUISE HANDLE



POS	DESCRIZIONE	DESCRIPTION	N. CODICE-PART N.	QT
2	Leva acceleratore	Throttle lever	7000 2006	1
3	Impugnatura	Cruise handle	7000 1016	1
4	Rondella	Washer	7000 1021	2
5	Vite impugnatura 5x20	Screw, cruise handle 5x20	7000 1081	2
6	Rondella	Washer	7000 1021	1
7	Dado fiss. impugnatura	Nut, cruise handle	7000 1019	1

*Rondelle e viti inox *Stanley steel washers and screws
 *Guarnizioni speciali *High quality gaskets
 *Anelli O-ring speciali *High quality O-rings

Scatola Aquascooter	Aquascooter box	7000 1012	1
Imballo neutro	Packing		1

DICHIARAZIONE di POTENZA
Engine Power Declaration
(Art.28 Decreto Legislativo 18 luglio 2005,n° 171)

Costruttore del motore Legale Rappresentante Rivenditore Autorizzato (*)

Engine Manufacturer/legal representative/authorized seller

COMER SPA – VIA STORCHI, 8 –42011 BAGNOLO IN PIANO (RE)

Modello AQUASCOOTER AS 650 CE
Engine Model

Numero di serie
Serial Number

Tipo di motore PROPULSORE X HOBBY
Engine Type

Combustibile impiegato MISCELA 1%
Specification of recommended fuel

Potenza dichiarata 2 HP
Declared Rated Power

Kw a 1,47
Kw a

Giri/min 5.000
rpm

All'albero portaelica
Declared propeller shaft power

All'albero motore
Declared crankshaft power

Consumo orario Massimo 1 l/h
Hourly max consumption

Ora A/h
Ampere ora

Ciclo QUATTRO Tempi 2 T Iniezione a carburatore Cilindrata totale 49 cm³
Cycle Stroke Carburettor injection Total swept volume

Numero e disposizione cilindri 1 in linea
Number of cylinder

Alesaggio 40 mm Corsa 39 mm
Cylinder Bore Piston Stroke

Massa [kg] 7
Weight [kg]

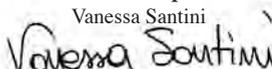
Sistema di aspirazione ASPIRAZIONE NATURALE
Induction System

Raffreddamento aria di sovralimentazione NO Massima contropressione allo scarico 0,00 kPa
Cheer air cooling Maximum permissible exhaust backpressure

**Timbro e firma del costruttore, del legale rappresentante
o del rivenditore autorizzato nel territorio UE**
*Stamp and signature of engine manufacturer, legal representative
or authorized seller in EU*

(*)Marcare la voce corretta
Tickthe item which is applicable

COMER S.p.A.
Vanessa Santini



La falsità della dichiarazione e/o l'utilizzo di dichiarazione falsa concretizzano le fattispecie di cui agli articoli 483 o.p. (falsità ideologica commessa dal privato in atto pubblico) e 489 c.p. (uso di atto falso).

10 . **DICHIARAZIONE DI CONFORMITA'. DECLARATION OF CONFORMITY.
KONFORMITÄTSERKLÄRUNG.DECLARATION DE CONFORMITÉ.
DECLARACIÓN DE CONFORMIDAD**

DICHIARAZIONE "CE" di CONFORMITA' - "CE" DECLARATION OF CONFORMITY
"CE" KONFORMITÄTSERKLÄRUNG - DECLARATION DE CONFORMITÉ "CE".
DECLARACIÓN DE CONFORMIDAD "CE"

La ditta:

Messrs.

Die Firma

La maison

La empresa

COMER S.p.A.
Via Storchi, 8
42011 - S.Tomaso - Bagnolo in Piano - RE - ITALY

Dichiara sotto la propria responsabilità che la macchina/ Declares under its own responsibility that the machine / Erklärt unter der eigen Verantwortung, daß die Maschine/ Déclara sous sa propre responsabilité que la machina/ Declara bajo su propia responsabilidad que la máquina

Marca / Make / Fabrikat / Marque / Marca . . : **COMER**
Tipo/ Type/ Typ/ Type/ Tipo: **PROPULSORE PER HOBBY**
Modello/Model/Modell/Modèle/Modelo : **AS 650**

N. di serie/Serial N./Seriennummer/N.de série/Número de serie:

é conforme ai Requisiti Essenziali di Sicurezza e di Tutela della Salute di cui alle Direttive CEE 89/392 - CEE 89/336 e successive modifiche.

is conforming to the Essential Safety and Health Protection Requirements pursuant to EEC Directive 89/ 392, EEC 89/336 and subsequent amendments.

den wesentlichen Anforderungen in Sachen Sicherheit und Gesundheitsschutz entspricht, die nach den EU-Richtlinien 89/392/EWG - 89/336/EWG und anschließenden Novellierungen vorgesehen sind.

est conforme aux Prescriptions minimales de sécurité et de santé de la Directive CEE 392 - CEE 89/336 et successives modifications.

está conforme a los Requisitos Esenciales de Seguridad y Protección de la Salud según las Directivas CEE 89/392, CEE 89/336 y sucesivas modificaciones.

Vanessa Santini

legale rappresentante - authorised Officer - rechtlicher Vertreter
le représentant légal - representante legal

(firma - firma - Unterschriftsignature - firma)

Vanessa Santini

Reggio Emilia,li
ITALY

La presente Dichiarazione è valida solo se compilata e firmata in ogni sua parte

This Declaration is valid only if all its sections have been filled in and signed

Diese Erklärung ist nur dann gültig, wenn sie in allen Teilen ausgefüllt ist.

La présente déclaration n'est valable que si elle est dû

La presente declaración es válida sólo si rellenada en todas sus parte y firmada

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