

OWNER'S MANUAL





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SAFETY INFORMATION

INTRODUCTION

Thank you for choosing a Grand boat.

If you need assistance or advice please contact your Grand Dealer or Distributor who has qualified specialists, special tools, original spare parts and accessories and will be happy to assist.

This Manual provides an overview for the safe operation of your Grand boat. Please take time to read it carefully so as to become familiar with your new boat. Make sure that you fully understand the controls and instructions before operating the boat. Improper operation can be extremely dangerous!

Please, note that most boating-related accidents happen when safety instructions are ignored. We want you to enjoy your experience on your boat so please be sure to take our guidance seriously and comply with safety instructions at all times.

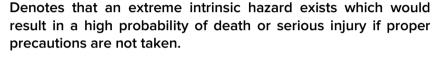
The basic safety rules are stated throughout the Manual, additional precautions are indicated by the special PRECAUTIONARY SYMBOLS:



PRECAUTIONARY SYMBOLS

The following precautionary symbols are used throughout this Manual:







Denotes that a hazard exists which can result in injury or death if proper precautions are not taken.



Denotes a reminder of safety precautions or directs your attention to unsafe practices which could result in personal injury, damage to the craft or components or the environment.

PLEASE NOTE that in some countries a boat operating license or other form of authorization may be required.

Operators should be familiar with the use of all safety equipment and emergency procedures (e.g. man overboard recovery, towing etc.). We strongly recommend that appropriate training is undertaken from a recognized boating and/or safety organization prior using your boat.

Please note that in some countries it is a mandatory requirement to wear a buoyancy aid.

Some information may not apply to your boat since standard and optional equipment may vary from model to model.

Data sheets and specifications given in this manual relate to the boat's characteristics at the time of publishing. Grand reserve the right to introduce changes in specifications and equipment without notice and without obligation.

We continually work with our customers to improve quality and to ensure you will be completely satisfied with your Grand boat.

If you have any additional questions after reading this manual, please feel free to ask for your dealer.

PLEASE KEEP THIS MANUAL IN A SECURE PLACE, AND HAND IT OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT.



GENERAL INFORMATION

Name of craft Manufacture: GRAND MARINE. Models: S520 (F), S520S (F), S520L (F).

According to the Recreational Craft Directive 2013/53/EU of the European Parliament and of the Council of 20th November 2013, which is in force, your boat has design category: C, i.e., the craft is designed to operate in the following conditions:

Wind (Beaufort scale) up to and including Force 6.

Significant wave height (H^{1/3}, meters) up to and including 2 meters.

Explanatory note:

A watercraft given design category C is considered to be designed for a wind speed up to and including Force 6 and significant wave height up to and including 2 m.



BE RESPONSIBLE, TAKE NOTICE OF THESE PARAMETERS WHEN YOU PLAN YOUR NAVIGATION PROGRAM AND DO NOT BOAT IF THE WIND/WAVE CONDITIONS ARE LIKELY TO EXCEED THESE PARAMETERS.

MAXIMUM NUMBER OF PERSONS

The Maximum number of people (adults + children) authorized to be on board according to design standards ISO 6185, ISO 14946 and ISO 12217 is given in the technical data sheet in the "TECHNICAL INFORMATION" section.



DO NOT EXCEED THE MAXIMUM RECOMMENDED NUMBER OF PEOPLE. REGARDLESS OF THE NUMBER OF PEOPLE ON BOARD, THE TOTAL WEIGHT OF PEOPLE AND EQUIPMENT MUST NEVER EXCEED THE MAXIMUM RECOMMENDED LOAD. ALWAYS USE THE SEATS/SEATING SPACES PROVIDED.

MAXIMUM LOADING CAPACITY

You can find the maximum load capacity in the "TECHNICAL INFORMATION" section in this Manual. It is also shown on the manufacturer's plate affixed to the hull. Please note that the maximum load capacity includes the weight of all people onboard, outboard engine, provisions, personal effects, and additional equipment. Note that excess and unevenly distributed load within the boat can create unstable steering conditions and even loss of control.

SAFETY



WHEN LOADING THE CRAFT, NEVER EXCEED THE MAXIMUM RECOMMENDED LOAD. ALWAYS LOAD THE CRAFT CAREFULLY AND DISTRIBUTE LOADS APPROPRIATELY TO MAINTAIN DESIGN TRIM (APPROXIMATELY LEVEL). AVOID PLACING HEAVY WEIGHTS HIGH UP.

ENGINE INFORMATION

Information about recommended engine capacities, maximum engine capacities, maximum engine weights for each model are given in the technical data sheet of "TECHNICAL INFORMATION" section.



NEVER USE A MOTOR WITH A POWER OUTPUT GREATER THAN THE MAXIMUM RECOMMENDED, OR HEAVIER THEN INDICATED ON THE MANUFACTURER'S PLATE. THIS COULD RESULT IN LOSS OF CONTROL.



RISK OF FLOODING AND STABILITY

HULL DRAINAGE



NEVER OPEN THE HULL DRAIN PLUG WHEN AFLOAT.

To drain the hull remove the plug (fig. 1).

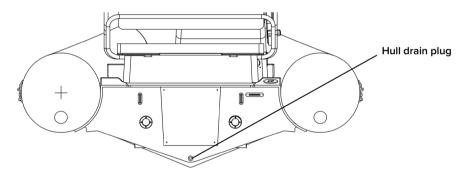


Fig. 1. The hull drain plug is located on the transom.

After removal refit and re-tighten (do not over-tighten) the plug before using the boat.



COCKPIT DRAINAGE

The boat is equipped with two cockpit drain plugs located at the transom.



NEVER OPEN THE COCKPIT DRAIN PLUGS WHEN AFLOAT.

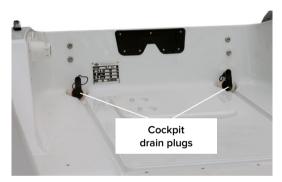


Fig. 2. Cockpit drain plugs.



WHEN THE BOAT IS ON LAND/DAVIT OR TRAILER, OPEN THE COCKPIT DRAIN PLUGS SO THAT WATER (RAINWATER, FOR INSTANCE) CAN EASILY DRAIN OUT OF THE BOAT AND NO DAMAGE TO THE INTERNAL COMPONENTS (E.G THE BATTERY) WILL OCCUR.

RISK OF FLOODING AND STABILITY

BILGE PUMP (OPTIONAL) AND BAILING

The craft can be equipped with a bilge pump and drain pipe. In this case use a switch located on the steering console to turn it on/off.



THE BILGE PUMP SYSTEM IS NOT DESIGNED FOR DAMAGE CONTROL.



CHECK BILGE PUMPS REGULARLY TO MAKE SURE THEY ARE WORKING. CLEAR DEBRIS FROM PUMP INLETS.

SAFETY

STABILITY AND BUOYANCY

The stability and buoyancy of the craft have been thoroughly assessed by the Manufacture in compliance with the requirements of the Recreational Craft Directive 2013/53/EU.

The craft manufacturer guarantees that the boat meets all safety criteria during normal operating conditions.

However, the person responsible for operating the craft must always keep in mind that the safety of the craft and crew should be their priority at all times and that conditions on the water can change suddenly with little prior notice.

Before using your boat, it is strongly recommended that appropriate training is given to all crew members in the safe operation of the craft.

In case of an accident, do not panic and reassure passengers.

- Be aware that your boat, even if damaged, may provide the best shelter and facilitate your rescue. Never leave the boat whilst it remains afloat. Remember that an inflatable boat, even when full of water, is virtually unsinkable.
- If, after an accident, a tube compartment deflates, bring it inside the boat, restore the load balance to the opposite side of the deflated compartment and return to port at reduced speed.

RISK OF FIRE OR EXPLOSION

Pay particular attention to the fact that a fuel tank and electrical devices are installed on your boat. This means that there is a risk of explosion or fire caused, for example, by a spark. Be careful and check systems regularly with a view to identifying leaks or corrosion in the fuel tank and possible damage to the electrical wiring.

For information concerning safe operation of the engine consult the manufacturers instruction manual.

FIRE PREVENTION

Consult your Dealer for more detailed information on this subject before operating your boat.

The owner/operator of the craft should:

- Inform all crew members about the location and operation of all firefighting equipment.
- Check firefighting equipment at the intervals indicated on each item.
- Replace any used extinguisher with one of same type and rating.



NEVER OBSTRUCT ACCESS TO PORTABLE EXTINGUISHER.



NEVER MODIFY ANY OF THE CRAFT'S SYSTEM UNLESS COMPETENT TO DO SO.



NEVER FILL ANY FUEL TANK WHEN ENGINE IS RUNNING.



NEVER SMOKE WHILE HANDLING FUEL.



AVOID CONTACT OF FLAMMABLE MATERIALS WITH HOT ENGINE PARTS.



NEVER DELIBERATELY OR INADVERTENTLY BLOCK VENTILATION OF FIXED PETROL TANK AND BATTERY COMPARTMENTS.



NEVER STORE PETROL CONTAINERS OR EQUIPMENT CONTAINING PETROL IN ANY AREA NOT DESIGNATED FOR THE SPECIFIC STORAGE OF PETROL.



CHECK FOR FUEL AND GAS VAPOURS OR FUEL LEAKS AT REGULAR INTERVALS AND BEFORE STARTING THE ENGINE.

VENTILATION OF PETROL TANK COMPARTMENT

Petrol tank compartment has a natural ventilation system. The fuel tank compartment is ventilated by the natural flow of air through ventilation openings (figs. 1 and 2) to and from the atmosphere. These openings are located at the bow locker and rear area.



Fig. 1. Ventilation openings on the bow locker.



 $\label{eq:Fig.2.Ventilation} \textit{Properties on the rear area.}$



DO NOT OBSTRUCT OR MODIFY THE VENTILATION SYSTEM AND VENTILATION OPENINGS.



ALL EQUIPMENT THAT BURNS FUEL WILL REQUIRE AN AIR SUPPLY. ENSURE ALL AIR INTAKES ARE CLEAR BEFORE FUEL-BURNING EQUIPMENT IS USED.



BEFORE FUELING YOUR BOAT ENSURE ANY STATIC ELECTRICITY IS DISCHARGED BY TOUCHING AN UNPAINTED METAL SURFACE WITH THE FILLER NOZZLE.

REMEMBER THAT A STATIC SPARK WILL IGNITE FUMES, CAUSING A FLASH FIRE.

DO NOT SMOKE OR USE AN OPEN FLAME WHEN FUELING THE BOAT.

A WARNING

REGULARLY INSPECT FUEL SYSTEMS FOR LEAKAGE. FUEL SYSTEM HOSES SHOULD BE INSPECTED AT LEAST ANNUALLY AND REPLACED IF ANY DETERIORATION OR DAMAGE IS FOUND. IF FUEL LEAKAGE IS PRESENT, HAVE THE SYSTEM REPAIRED BEFORE FURTHER USE. FUEL SYSTEM REPAIRS SHOULD ONLY BE MADE BY COMPETENT PERSONNEL.

SAFETY



NEVER USE A FLAME TO CHECK FOR LEAKS.



IF A FUEL LEAK OR FUMES ARE DETECTED, DO NOT START THE ENGINE. ENSURE ALL CREW LEAVE THE BOAT AND HAVE A QUALIFIED PERSON REPAIR THE FAULT AS SOON AS POSSIBLE.

BATTERY



- 1. AVOID SPARKS AND EXPOSED FLAMES NEAR BATTERY. IT MAY EXPLODE.
- 2. KEEP BATTERY TERMINALS PROTECTED SO AS TO AVOID A SHORT CIRCUIT OR CONTACT WITH ANY METAL OBJECTS.
- 3. TURN OFF THE ENGINE WHEN INSPECTING OR SERVICING THE BATTERY.
- 4. NEVER KEEP THE BATTERY CLOSE TO A FUEL TANK, FILLER OR FUEL SYSTEM COMPONENTS.

FIRE-FIGHTING EQUIPMENT

It is the owner/operator's responsibility to have appropriate fire extinguishers in serviceable condition and readily accessible on board as prescribed by local requirements. At least one portable extinguisher type 34 B shall be present on board.

The storage compartment of a portable fire extinguisher is marked by the following symbol:



This boat, when in service, shall be equipped with portable fire extinguisher of the following extinguishing capacities and in the following recommended location:

N°1 Location: Bow locker

Fire rating: 34B

ELECTRICAL SYSTEMS - SAFETY RULES

- Check condition of battery and charging system before departure.
- When the electrical system is in use check that individual components are working satisfactorily.
- Disconnect and remove the battery when the craft is in winter storage (cold weather areas) or long term storage.



NEVER WORK ON THE ELECTRICAL INSTALLATION WHILE THE SYSTEM IS ENERGIZED.



NEVER MODIFY THE CRAFT'S ELECTRICAL SYSTEM; INSTALLATION AND MAINTENANCE SHOULD ONLY BE PERFORMED BY A QUALIFIED MARINE ELECTRICAL TECHNICIAN.



NEVER ALTER OR MODIFY THE RATED CURRENT AMPERAGE OF OVERCURRENT PROTECTIVE DEVICES.



NEVER INSTALL OR REPLACE ELECTRICAL APPLIANCES OR DEVICES WITH COMPONENTS
WHICH EXCEED THE RATED CURRENT AMPERAGE OF THE CIRCUIT.



NEVER LEAVE THE CRAFT UNATTENDED WITH THE ELECTRICAL SYSTEM ENERGIZED, EXCEPT AUTOMATIC BILGE PUMP, FIRE PROTECTION AND ALARM CIRCUITS.



ENGINE STARTING

Refer to the engine manufacturer's manual for correct procedures before using the engine.



BE SURE THE ENGINE IS NOT IN GEAR BEFORE ATTEMPTING TO START IT!

MAN-OVERBOARD PREVENTION AND RECOVERY

Man-overboard prevention.

The working deck has an anti slip surface.

When the boat is underway, the operator and passengers should always occupy designated seating areas, using handles when necessary. Other parts such as seat backs, cleats, windscreen tops and rails can be used as handholds to reduce the risk of falling overboard.



IF PASSENGERS ARE NOT IN DESIGNATED SEATING WHEN UNDERWAY THERE IS A RISK OF FALLING INSIDE THE BOAT OR OVERBOARD CAUSING SERIOUS INJUERY OR DEATH.

Areas such as the bow step plate, the engine well, tube step ends and buoyancy tubes should not be used as seating when the boat is underway.



MEANS OF REBOARDING

Due to low freeboard, there are no specific devices to re-board.

When using safety handles caution must be paid to prevent the boat from capsizing. Make sure the engine switched off and propeller is not rotating.

DANGER FROM MOVING PARTS

Even in neutral, engine's propeller may rotate and may cause injury. If a person is in the water near the boat, immediately switch off the engine to avoid injury from the propeller rotation.



KEEP AWAY FROM MOVING PROPELLER! IT COULD RESULT IN INJURY OR DEATH!

SAFETY EQUIPMENT

The owner/operator is responsible for ensuring that appropriate safety equipment is onboard and is in proper working condition. The type of safety equipment and quantity will depend on the conditions expected and length of trip.

The type of safety equipment required will depend on local or national regulations. In most countries, safety equipment of the following type is required:

- Emergency Engine Kill Switch Lanyard.
- Personal Flotation Devices (PFD).
- Horn or Whistle.
- A manual bailing device for removing water from the boat (bucket, hand pump).
- Visual Distress Signals.



CONSULT YOUR LOCAL DEALER REGARDING REQUIRED SAFETY EQUIPMENT IN YOUR COUNTRY/STATE BEFORE GOING AFLOAT.



SAFETY DRIVING RULES



- DO NOT EXCEED THE AUTHORIZED NUMBER OF PERSONS OR MAXIMUM WEIGHT FOR THE CRAFT.
- MAKE SURE YOUR PASSENGERS REMAIN SEATED ON SEATS OR ON THE FLOOR.
 AVOID SITTING ON TUBES.
- AVOID BOW RIDING AS IT MAY BE ILLEGAL AND IS EXTREMELY DANGEROUS.
- DO NOT MAKE SHARP TURNS AT HIGH SPEEDS: YOU COULD BE EJECTED FROM THE BOAT.
- DO NOT MAKE VIOLENT CHANGES IN DIRECTION WITHOUT INFORMING PASSENGERS.



BOAT IDENTIFICATION

BOAT'S IDENTIFICATION NUMBER

Every boat has "Watercraft Identification Number" (WIN), which uniquely identifies your boat and is important for safety and identification purposes. The WIN is marked on a non-removable metal plate, which is fixed to the transom area of your boat (fig. 3).

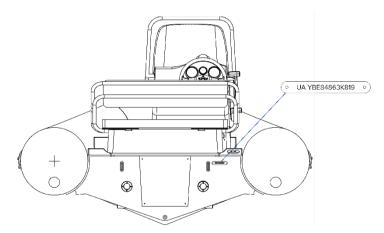


Fig. 3. Location of the WIN plate.



BOAT IDENTIFICATION

BUILDER'S PLATE

The builder's plate (fig. 4), which is fixed to the craft, provides information about the Builder including builder's name, registered trade or trade mark plus contact name and address, CE marking, craft design category, maximum recommended load, number of persons recommended by the builder for which the craft was designed. This information may not however comprise a complete list: safety requirements (obligatory safety equipment carried on the boat, maximum authorized distance you can navigate from a port, etc.) may vary according to the country or state.

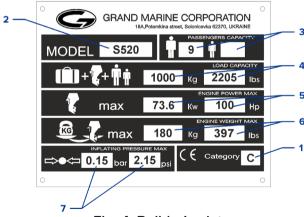


Fig. 4. Builder's plate

- 1 Design category*
- 2 MODEL: Catalogue name or model number.
- 3 Maximum number of people authorized on board (adults + children) according to ISO and DIN standards.
- 4 Maximum load capacity of the boat allowed by the builder and expressed in kilograms and lbs.
- 5 Maximum outboard power allowed by the builder for the boat and expressed in kilowatts and HP.
- 6 Maximum weight of outboard motor allowed by the builder expressed in kilograms and lbs.
- 7 Nominal Pressure of the buoyancy tubes in Bar and Psi. Other parts of the boat may require different pressures. Refer to the INFLATION section in this manual.

BOAT IDENTIFICATION



Always refer to local regulations for information on additional requirements.

*Design category (European directive 2013/53/EU):

Category	С	D
Navigation	"Inshore"	"Protected water"
Wind speed (Beaufort scale)	Up to and including F6	Up to and including F4
Significant height of wave to consider (in meters)	Up to and including 2m	Up to and including 0.3m



BE RESPONSIBLE, TAKE NOTE AND DO NOT NAVIGATE IF THE CONDITIONS ARE LIKELY TO EXCEED THESE PARAMETERS.



BEFORE OPERATING YOUR CRAFT

BEFORE OPERATING YOUR CRAFT

WEATHER

Before starting any trip, check the local weather forecast. Depending on location and seasonal conditions, the weather can sometimes change very quickly. If the weather suddenly changes and conditions become rough:

- Try to find shelter as soon as possible because riding out a storm at sea can be extremely dangerous.
- Reduce speed whilst maintaining sufficient power to continue making headway.
- Check that all passengers have personal flotation devices and are sitting close to the boat's centerline.

CHECKLIST BEFORE DEPARTURE



MAKE SURE YOU HAVE ALL NECESSARY INFORMATION AND PASSENGERS ARE INFORMED.

BEFORE OPERATING YOUR CRAFT



GENERAL

- OBTAIN INFORMATION on local regulations and hazards related to marine activities and boat operation.
- 2. CHECK weather forecast, local currents, tides and wind conditions.
- 3. ADVISE someone on land when you expect to be back.
- 4. EXPLAIN basic boat operation to all passengers.
- 5. ENSURE that at least one passenger is able to operate the craft and motor, provide training as needed.
- 6. FAMILIARISE all passengers with safety procedures and drills.
- 7. LEARN how to estimate the distance you can cover with a full tank of fuel. Always be sure you have enough fuel to reach your destination or a place of safety.
- 8. CHECK you have all necessary documentation and licenses.



CHECK THAT THE BOAT AND ALL EQUIPMENT ARE IN GOOD WORKING ORDER.



BEFORE OPERATING YOUR CRAFT

CHECKING THE BOAT AND EQUIPMENT

- Using a pressure gauge, check inflation pressure in each section of the tube (gauge not supplied).
- Check the tightness of the outboard motor clamps or bolts.
- Remove the cockpit drain plug and check it is working correctly.
- Check the cockpit drain plug gasket, replace if necessary.
- Check that sufficient fuel is available for your trip.
- Be sure the outboard motor is not in gear before attempting to start.
- Start the engine and check that the emergency kill switch functions correctly.
- Check the load is evenly distributed.
- Check that all required safety equipment is on board. See also "SAFETY EQUIPMENT" in the section "SAFETY".
- Check that each passenger has his personal flotation device.
- Check that the boat is equipped with an additional flotation device for emergency use.
- Check that the boat is equipped with two oars/paddles. Check the condition of the oars and rowlocks.
- Be sure that you do not exceed the recommended maximum load indicated on the Builder's plate.
- Make sure that each passenger is seated or has a seat available. Inform all passengers regarding the necessity to hold on to safety handles or lines.
- Be sure that the boat is equipped with at minimum 2 x boat length of suitable towing line.

BEFORE OPERATING YOUR CRAFT



RULES TO OBSERVE WHEN AFLOAT

- Be responsible: do not ignore safety rules.
- Make sure that you are always in control of your boat.
- Always operate your boat with courtesy and respect for others.
- Respect local regulations and practices.
- Near the shore, navigate within designated boating areas.
- Always be sure that you can reach shelter quickly.

DANGER

- 1. WEAR PERSONAL FLOTATION DEVICE (PFD)
- 2. ALWAYS USE THE ENGINE KILL SWITCH LANYARD: WEAR IT AROUND YOUR WRIST, ANKLE, OR AFFIX TO YOUR CLOTHES.



OPERATING THE CRAFT

WINDSCREEN INSTALLATION

In order to install the windscreen onto the console perform the next operations (Fig. 5):

- Unfix and hinge out overhead part of steering console or seat for steering console CS-03 «Sport».
- Align holes in the windscreen with holes in the console overhead part.
- Fix windscreen by means of the screws M6x25, bushes, washers and nuts M6 from the complete set.

For steering console CS-03 «Sport»:

- Align holes in the windscreen railing with holes in the console «Sport».
- Fix windscreen railing by means of the bolts M8x20, support windscreen railing and washers from the complete set.
- Tighten all the bolts and screws.

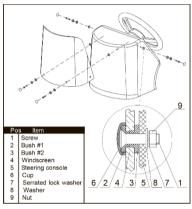


Fig. 5. Installation of windscreen.



CL-12 STEERING CONSOLE INSTALLATION

- Align holes on the bottom of steering console with holes on the deck.
- Fix steering console to the deck by means of bolts M8*25 and toothed lock washer (see Fig.6).
- Attach steering system cable in accordance with its own installation (manual).
- Replace and fix overhead part of the steering console by means of washers and nuts M8 from complete set.
- Tighten all the bolts and nuts.

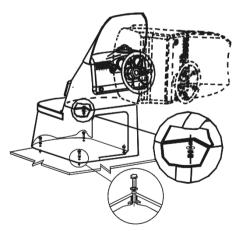


Fig. 6. Installation of steering console CL-12.



TO AVIOD THE WATER PENETRATION INTO THE CONSOLE AND HULL INNER LAYERS, PLEASE, TIGHT ALL THE HOLE FREE SPACE WITH ANY WATER RESISTANT FILLER.

ALL BOLTS, SCREWS AND NUTS SHOULD BE CHECKED FROM TIME TO TIME TO MAKE SURE THEY ARE TIGHT.

FOR MORE INFORMATION, PLEASE CONTACT YOUR LOCAL GRAND AUTHORIZED DEALER.



CS-03 STEERING CONSOLE INSTALLATION

- Align holes on the bottom of steering console CS-03 with holes on the deck.
- Fix steering console to the deck by means of bolts M8*25 and toothed lock washer (see Fig.7).
- Attach steering system cable in accordance with its own installation (manual).
- Replace and fix overhead part of the steering console by means of washers and nuts M8 from complete set.
- Tighten all the bolts and nuts.

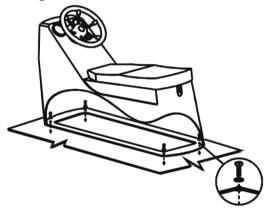


Fig. 7. Installation of steering console CS-03.



TO AVIOD THE WATER PENETRATION INTO THE CONSOLE AND HULL INNER LAYERS, PLEASE, TIGHT ALL THE HOLE FREE SPACE WITH ANY WATER RESISTANT FILLER.

ALL BOLTS, SCREWS AND NUTS SHOULD BE CHECKED FROM TIME TO TIME TO MAKE SURE THEY ARE TIGHT.

FOR MORE INFORMATION, PLEASE CONTACT YOUR LOCAL GRAND AUTHORIZED DEALER.



SD-15 CONTAINER INSTALLATION

- Hinge out the seat.
- Align holes on the bottom container with holes on the deck.
- Fix container to the deck by means of bolts M8*25 and toothed lock washer (see Fig.8).
- Tighten all the bolts.
- Replace the seat.



Fig. 8. Installation of container SD-15.



TO AVIOD THE WATER PENETRATION INTO THE CONSOLE AND HULL INNER LAYERS, PLEASE, TIGHT ALL THE HOLE FREE SPACE WITH ANY WATER RESISTANT FILLER.

ALL BOLTS, SCREWS AND NUTS SHOULD BE CHECKED FROM TIME TO TIME TO MAKE SURE THEY ARE TIGHT.

FOR MORE INFORMATION, PLEASE CONTACT YOUR LOCAL GRAND AUTHORIZED DEALER.



TUBE INFLATION

Inflation valve. Option 1.

If the boat is equipped with a valve as shown in figure 9, follow the instructions below.

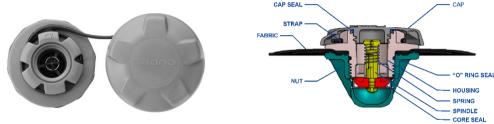
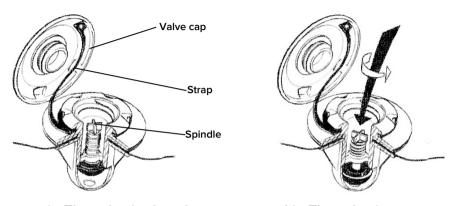


Fig 9. Inflation valve (option 1).

To inflate the tube chamber, first open the valve cap by turning it about half a turn counter clockwise (fig. 10). The spindle should be in the upper (closed) position.





a) The valve is closed

b) The valve is open

Fig. 10. Design of the inflation valve.

When the spindle is in the normal (closed) position, the valve operates as a check valve and opens when air is pumped into the tube.

To release air from the tube, press down and hold the spindle. If you need to fully deflate the tube, press and turn the spindle counter clockwise to lock it in the "open" position.



To inflate the tube chambers, use the foot pump (fig.7) supplied.



Fig. 11. Foot pump



Fig. 12. Special adapter

Insert the end of the hose into the inflation valve using one of the adapters supplied (fig. 12).

Make sure the adaptor makes an air-tight connection with the valve and inflate using foot pump.



Inflation valve. Option 2

If the boat is equipped with a valve as shown in figure 13, follow the instructions below.

To open the valve cap turn it a quarter counter clockwise. The plunger should be in the upper (closed) position.



Fig. 13. Inflation valve (option 2).

Begin the inflation procedure according to the sequence shown in figure 9. Initially, partially inflate each chamber (approx. 0.1 bar (1.45 psi) then repeat the procedure inflating each chamber to its nominal pressure, 0.15 bar (2.15 psi).



To inflate the boat connect the special "bayonet" type adaptor into the valve and secure it by twisting a quarter turn clockwise. Use the foot pump (fig.11) supplied to inflate the tube. To remove the adaptor turn it a quarter turn counter clockwise.

To release the air from the tube chamber, depress the plunger. To fully deflate the tube chamber fully depress and then release the plunger, so that it locks in the lower "open" position.

To inflate the tube, you can also use a small electric boat pump.



IF YOU USE A SMALL ELECTRIC PUMP, COMPLETE THE PROCEDURE BY USING THE FOOT PUMP TO REACH THE REQUIRED NOMINAL PRESSURE.

Begin the inflation procedure according to the sequence shown in figure 10. Initially, partially inflate each chamber (approx. 0.1 bar (1.45 psi) then repeat the procedure inflating each chamber to its nominal pressure, 0.15 bar (2.15 psi).

The nominal pressure is 0,15 bar (2,15 psi).



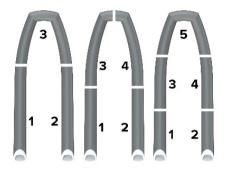


Fig. 14. Tube inflation sequence.

Check the pressure in each chamber with a pressure gauge. If you do not have a pressure gauge the following procedure will serve as a guide. Press a finger firmly against the tube – if the tube is depressed by about 10 mm (3/8 inch) this indicates that the pressure is approximately correct.

After the tube chambers have been inflated to the nominal pressure replace the valve caps (valve options 1 and 2). Fit the caps to the valve body and turn clockwise until secure. Valve caps protect the valves from accidental opening, provide a secondary seal and protect the valves from contamination.

The valves require little maintenance. Keep them clean using a standard household cleaner.



Remember that changes in ambient temperature will change the inflation pressure within the tube. A tube that is over-inflated in the morning can be damaged by a significant increase of temperature in the afternoon.



IF THE PRESSURE WITHIN THE TUBE BECOMES EXCESSIVE, THE GLUED JOINTS MAY BE DAMAGED.

If the ambient temperature rises significantly or you intend leaving the boat in direct sunlight, we recommend you relieve the air pressure in each chamber. It is strongly recommended that the boat be kept in the shade or under cover when not in use.



DO NOT USE SOURCES OF HIGH PRESSURE COMPRESSED AIR FOR INFLATING THE TUBE. EXCESSIVE PRESSURE CAN DAMAGE THE GLUE JOINTS AND THE INTERNAL WALLS.



OVERPRESSURE VALVE (IF FITTED)

Overpressure valves can be fitted to buoyancy tubes as shown in figures 15 and 16.

It serves to protect the tube from over inflation and excess pressure build up due to solar heat.



O



Without strainer

With strainer

Fig. 15. Overpressure valve (option 1)

Fig. 16. Overpressure vale (option 2)



FOR NORMAL OPERATION OF THE VALVE, (OPTION 2) THE CAP SHOULD BE OPENED.
WITH CAP CLOSED THE VALVE WILL NOT BE FULLY OPERATIONAL.



MOTOR INSTALLATION

Information about motor trim is given for reference purposes only.

The engine manufacturer's dealer or authorized agent should undertake installation of the motor on your boat.

The optimum position is with the propeller axis parallel with the water.

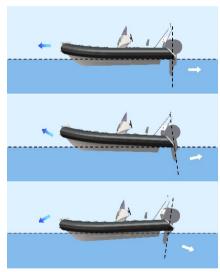
Fig. 17. Optimum trim.

If the motor is tilted too far outwards from the transom, the boat will tend to porpoise.

Fig. 18. Trim up.

If the motor is tilted too far inwards towards the transom the boat will travel bow down.

Fig.19. Trim down.



Please refer to the manual supplied by engine manufacturer before operating the engine and craft.



FUELING

The fuel system consists of a fuel tank (the volume is given in the technical data sheet), sender and fuel level gauge (optional), filler neck and fuel cap.



Fig. 17. The location of the fuel cap on the rear deck.

BEFORE FUELING

- Check the engine manufacturer's manual for information about the correct type of fuel be used for proper and long-term trouble-free operation.
- Turn off the engine.
- Turn off the ignition.
- Be sure to extinguish any open flames.



WHILE FUELING

- Keep hose nozzle in contact with the filler pipe to provide a ground against static sparks.
- Fill the tank slowly to avoid danger of spillage.
- Do not overfill the tank. Leave some room for the fuel to expand. In hot conditions, fill the tank to about 80% of its maximum capacity.

If fuel is spilt on the hull, use an ordinary, non-abrasive cleaner then wipe with a damp cloth and rinse the area with clean water. See also instructions given in "SERVICE AND MAINTENANCE" section.

EXPLOSIVE/FIRE HAZARD



IF A FUEL LEAK OR FUMES ARE DETECTED, DO NOT START THE ENGINE. ENSURE ALL CREW LEAVE THE BOAT AND HAVE A QUALIFIED PERSON REPAIR THE DEFECT AS SOON AS POSSIBLE.



USING POOR QUALITY OR UNSUITABLE FUEL CAN RESULT IN DAMAGE TO YOUR ENGINE!
IT IS PREFERABLE NOT TO STORE UNUSED FUEL FOR LONG PERIODS IN THE FUEL TANK AND FUEL SYSTEM AS THIS CAN RESULT IN DAMAGE TO FUEL LINES, PUMPS AND FILTERS.



ENGINE KILL SWITCH LANYARD

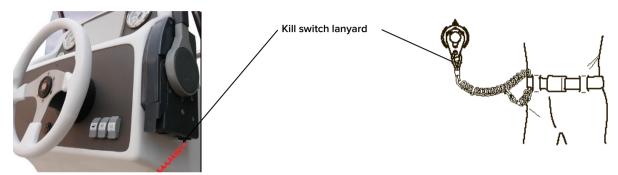


Fig. 20. Engine kill switch lanyard.

For safety reasons always use the engine kill switch lanyard.

The purpose of the engine kill switch lanyard is to turn off the engine if for any reason the operator is removed from the steering position.



WHEN THE ENGINE IS RUNNING, THE KILL SWITCH LANYARD SHOULD ALWAYS BE WORN ON THE WRIST, ANKLE, OR FIXED TO YOUR CLOTHES OR TO YOUR PERSONAL FLOTATION DEVICE. IGNORING THIS INSTRUCTION MAY CAUSE DEATH OR SERIOUS INJURY.



BATTERY ISOLATOR SWITCH

The battery isolator switch is designed to isolate the battery from the boat's electrical circuit.

It is used when the boat is in long-term storage to prevent the battery becoming drained, during maintenance (this should be done by qualified electrical technician. See also "ELECTRICAL SYSTEMS" in the section "SAFETY") and in emergency cases.

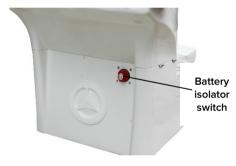


Fig. 21. Battery isolator switch.

Specification:

Operating voltage: up to 48 Volt DC.

Nominal current: 250 A.

Max. current: 450 A - 5 min / 700 A - 10 sec.

The battery isolator switch is located on the steering console in an accessible place for the operator. It should be accessible at all times for disconnecting all devices from the battery.

The battery must NEVER be disconnected from the engine when it is running!



SWITCH PANEL

Use the following switches located on the steering console to switch on/off a horn, navigation lights and bilge pump.

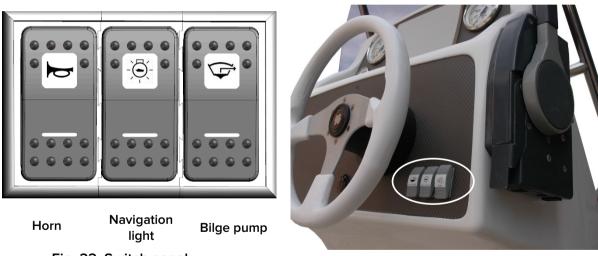


Fig. 22. Switch panel.



FUSES

The fuses are located on the right front side of the steering console.

To change a fuse, push, then turn counterclockwise a cup with a screwdriver, then pull out a blown fuse and replace it with a new one. Screw the cup, initially push it, then turn clockwise.

A rating of relevant fuses are given below.



	J ,
USB socket	2
Bilge pump	3
Navigation lights/Horn	5

Circuit

Fuse rating. A

Fig. 23. Fuses.



BILGE PUMP

The bilge pump serves to pump water out of the bilge area of the boat.



Fig. 24. Bilge pump location.

The bilge pump is located in the water collector. Open the hatch to get access to the pump.

Pump specifications:

Capacity 1.9 m³/h (with zero head).

Power 12 V/1.6 A.

Maximum head 3 m.

Connection 3/4".



Switching the bilge pump on/off is done manually by using the switch located on the steering console.

Make sure the inlet channels are free from contamination (see also sections - "SAFETY", "RISK OF FLOODING AND STABILITY", "SAFETY EQUIPMENT").



NAVIGATION ARCH (IF APPLICABLE)

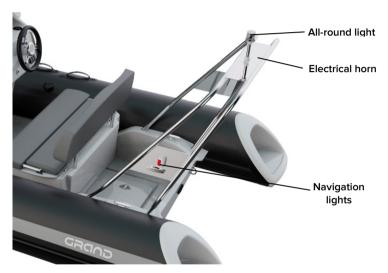


Fig. 25. Navigation arch.

Navigation arch is equipped with side navigation lights, all-round light and horn. Use the switches located on the steering console to turn it on/off.



NAVIGATION LIGHTS

Navigation lights are designed to indicate the craft's relative position, the nature of its movement or it's location at night. The side lights are a green light on the starboard side and a red light on the port side.

Use the switch on the steering console to turn the navigation lights on and off when needed.

HORN

The horn serves as a warning to other craft and individuals when setting off, mooring or in other safety related situations.

The horn is switched on/off by means of a switch located on the steering console. To use the horn press and hold the switch. Release the switch to turn the horn off.

Before making a trip, check the horn is functioning by briefly switching it on and off.



LIFTING EYES

The boat is fitted with lifting eyes at the bow and rear (fig. 26, 27). Use these eyes to lift the boat.





Fig.26. Bow lifting eyes, 2 positions.

Fig. 27. Rear lifting eyes, 2 positions.



ANCHORING AND MOORING

ANCHORING

Please make sure your craft is equipped with an appropriate anchor and line. If you are not sure, ask your Dealer who will be happy to advise. Setting-up a secure anchorage requires knowledge and practice so it is important that properly trained persons undertake this procedure.

When anchoring your boat make sure that you will not create a potentially dangerous situation for yourself, other boats or people.



ANCHOR ONLY IN AREAS WHERE YOUR BOAT WILL NOT HINDER OTHER BOATS. DO NOT ANCHOR IN A CHANNEL!

Before anchoring the boat, stop the engine. When anchoring be aware that the condition of the sea bed, changes in tide, wind strength and direction and currents will affect the position of the craft. Use local landmarks to obtain an approximate fix for the craft's position and check this regularly.



MOORING

Use the bow towing eye and rear lifting eyes for mooring.

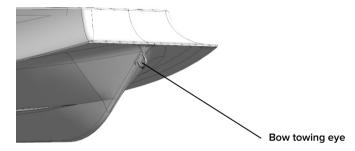
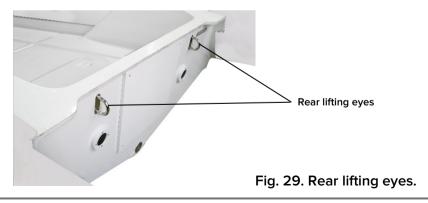


Fig. 28. Bow towing eye.





When the boat is moored or parked the cockpit drain valves should remain open. This will ensure rain water does not accumulate in the boat.

Breaking strength, kN	
Bow towing eye	14
Rear lifting eyes	10



THE BREAKING STRENGTH OF LINES SHALL IN GENERAL NOT EXCEED 80% OF THE BREAKING STRENGTH OF THE RESPECTIVE STRONG POINT.



BE VERY CAREFUL WHEN MOORING: ARMS AND LEGS MAY BE INJURED IF THEY ARE OUTSIDE THE BOAT.



BEACHING, LAUNCHING AND RECOVERING THE BOAT FROM THE WATER

When approaching a beach or waters edge proceed slowly and with extreme caution.

Avoid hazards below the water surface such as rocks. Hazards can damage the hull, tube, motor, or propeller. Do not power the boat onto land as serious damage to the hull and tube may result.

Do not drag the boat across rough or abrasive surfaces (rocks, concrete etc.). The hull and tube can be damaged.



NEVER DRAG THE BOAT OVER A ROUGH SURFACE (ROCKS, STONES, CONCRETE, ETC) AS THE HULL AND TUBE CAN EASILY BE DAMAGED.

Regularly check the surface of the fiberglass hull. If the gel coat is damaged, contact your Dealer for repair.



TOWING

When towing an inflatable behind another boat, always connect the tow line to the bow eyes. If possible use a double tow line when towing behind another boat. The second line acts as a backup in case one line breaks or comes undone.

Use a tow line of sufficient length so that there is at least two boat lengths between boats.

Use only line intended for towing, ask your Dealer for advice and select the correct line for your application (Do not tow with three strand nylon rope).

Fasten the towed boat securely and observe it continuously. Avoid towing a tender over long distances.

Do not use a tow line with signs of damage or wear. Check tow lines for wear and damage prior to use.

Always keep hands and feet clear of tow lines.

Be prepared to cast loose or cut the tow line if necessary.

Do not tow at high speeds or while planing.



- 1. TOWING MUST BE DONE AT LOW SPEED (NOT MORE THAN 10 KM/H) AND IN GOOD WEATER CONDITIONS WITH NO WAVES.
- 2. THE BOAT BEING TOWED MUST BE OBSERVED AT ALL TIMES.



TOWING EYE

The towing eye is located at the bow.

Breaking strength of bow towing eye is 14 kN.

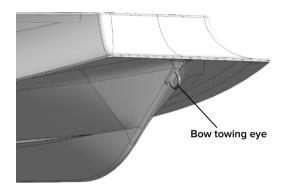


Fig. 30. Bow towing eye.



THE BREAKING STRENGTH OF LINES SHALL IN GENERAL NOT EXCEED 80% OF THE BREAKING STRENGTH OF THE BOW TOWING EYE



HIGH CAPACITY 200+ LITER BOW LOCKER



Fig. 31. Bow locker.



STEERING DOUBLE SEAT WITH FLIP-UP SYSTEM



Fig. 32. Double seat with flip-up system.



BOW STEP PLATE (IF APPLICABLE)



Fig. 33. Bow step plate.



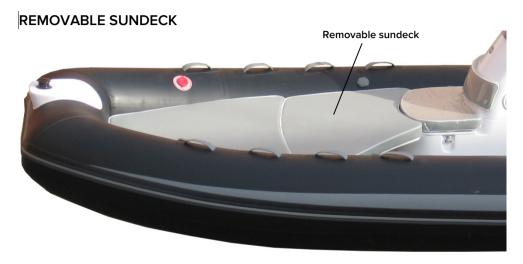


Fig. 34 Removable sundeck with cushion.



ALWAYS STORE REMOVABLE SUNDEC INSIDE THE STORAGE COMPARTMENT IF YOU ARE PLANNING TO CRUISE AT MORE THAN 15 KNOTS.



COLLAPSIBLE BIMINI TOP (IF APPLICABLE)



- Collapsible bimini top

Fig. 35. Collapsible bimini top.



USE A BIMINI TOP WHEN YOUR BOAT IS NOT IN MOTION. KEEP BIMINI TOP IN STOWED POSITION IF YOU PLANNING TO CRUISE AT MORE THAN 20-25 KNOTS.



OPERATING THE CRAFT

SEADECK ANTISKID SET (IF APPLICABLE)



Fig. 36. Seadeck antiskid product.

Safe and comfortable non-absorbent long life product specially designed for marine application. Textured microdot robust surface ensures:

- Exceptional traction even when wet.
- Unparalleled comfort when standing, walking or leaning on boat surfaces.
- Shock absorption, which decreases fatigue.
- Protection for boat surfaces against scratches, chips and dents.
- Noise reduction characteristics ideal for fishermen.

The following area of your boat (depending on the model) can be enhanced by Seadeck antiskid material:

- Deck.
- Steering console pad.
- Bow step plate.
- Fiberglass step ends.

Extremely stain resistant seadeck surface, if needed, can be easily cleaned with soap, hot water, and a stiff brush. For best cleaning results tend to remove all stains, spills and leaks as soon as possible.



DO NOT USE ACID-BASED CLEANERS. AVOID TO USE HIGH PRESSURE WASHERS

TECHNICAL INFORMATION

TECHNICAL SPECIFICATIONS

See the table below for technical specifications of the \$520/\$520\$, \$520L.

Model		S520/S520S	S520L
Specification	Unit		
Length overall	cm	520	520
	ft/inches	17' 1"	17' 1"
Length internal	cm	385	385
	ft/inches	12' 8"	12' 8"
Beam width	cm	220	220
	ft/inches	7' 3"	7' 3"
Width internal	cm	115	115
	ft/inches	3' 9"	3' 9"
Chambers	Number	5	5
Tube diameter	cm	50	50
	ft/inches	20"	20"
Tube fabric		PVC/Hypalon	PVC/Hypalon
Bare boat weight*	kg	225/255	285
	lbs	495/561	627
Full weight**	kg	284/320	350
	lbs	627/704	770



Loading capacity	kg	1000	1000
	Ibs	2205	2205
Passenger capacity	Number	9	9
Maximum height (light craft)	m	0.9	0.9
	ft/inches	2' 9"	2' 9"
Maximum draft (fully loaded), from hull's underside lowest point	m ft/inches	0.4 1' 3"	0.4 1' 3"
Engine recommended	HP	70	70
	kW	51.5	51.5
Engine max	HP	100	100
	kW	73.6	73.6
Engine weight max	kg	180	180
	lbs	397	397
Engine shaft length	inches	20' (long)	20' (long)
Midsection / aft deadrise	degrees	20'15"	20'15"

Note:

- * The bare boat weight is just a weight of the boat without any removable accessories.
- ** The complete boat weight is the weight of the boat with all optional equipment, parts and accessories.

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT:

- Extra-Deep "V" molded fiberglass hull with self-bailing cockpit, fuel tank compartment and access cover
- Soft curved multi-chamber inflatable tube
- Molded in high capacity (200 liter) bow locker with access cover
- Two rear cleats (excl. BASE)
- Towing bow eye, two front and two rear lifting eyes
- Bow grab handle, safety grab handles
- Tough raised rubbing strake with splash guard
- Two paddles and high-efficiency foot pump
- Two cockpit bailers and hull drain plug

SPORT VERSION:

- CS-03 steering console with windshield and handrail
- Steering system with cable and steering wheel

DELUXE VERSION:

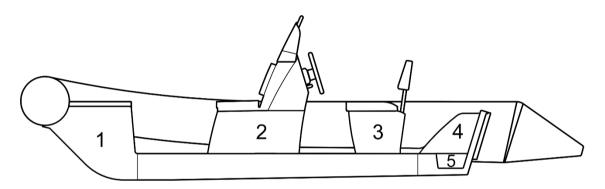
- CL-12 steering console with front seat, seat back, windshield, handrail and two dashboards
- Mechanical steering system with steering wheel
- Rear double seat SD-15 with soft seat backs and lockable stowage

OPTIONAL EQUIPMENT:

- Removable sundeck
- Built in 90 liter fuel tank with sender and filler
- Complete electric package
- Fiberglass step ends for inflatable tube
- Stainless steel polished navigation arch
- Bow step plate with clam bollard
- Bow locker removable cushion
- Collapsible bimini top
- Overall cover, console cover
- Overpressure valve
- Keel and tube protector packages
- SILVERTEX upholstery upgrade
- SeaDek® antiskid set (for DELUXE version)



COMPARTMENT CHART



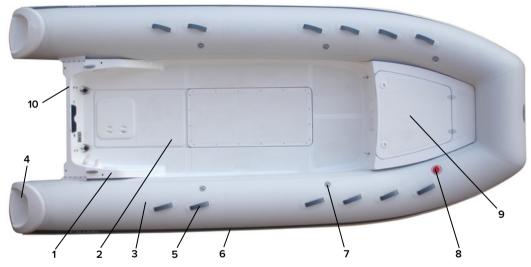
- 1. Bow locker
- 2. Console storage
- 3. Double seat locker

- 4. Rear open storage volume
- 5. Water collector

Fig. 37. Compartment chart.



GENERAL ARRANGEMENT OF A BOAT S520 (F)



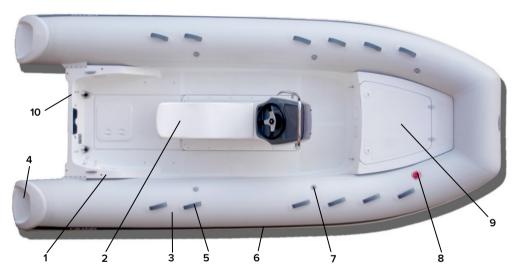
- 1. Fiberglass hull
- 2. Cockpit
- 3. Buoyancy tube
- 4. Fiberglass step end
- 5. Safety handle

Fig.38. General arrangement of a boat S520 (F).

- 6. Rubbing strake with splash guard
- 7. Inflation/deflation valve
- 8. Overpressure valve
- 9. Bow locker
- 10. Transom plate



GENERAL ARRANGEMENT OF A BOAT S520S (F)



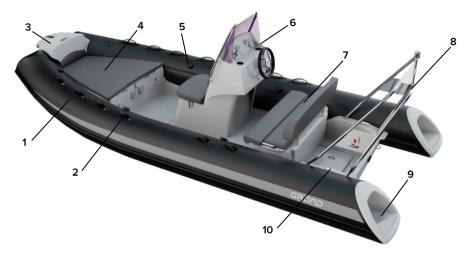
- 1. Fiberglass hull
- 2. Steering console
- 3. Buoyancy tube
- 4. Fiberglass step end
- 5. Safety handle

Fig.39. General arrangement of a boat S520S (F).

- 6. Rubbing strake with splash guard
- 7. Inflation/deflation valve
- 8. Overpressure valve
- 9. Bow locker
- 10. Transom plate



GENERAL ARRANGEMENT OF A BOAT S520L (F)



- 1. Buoyancy tube
- 2. Safety handle
- 3. Bow step plate
- 4. Bow locker with soft cushion
- 5. Inflation/deflation valve

Fig.40. General arrangement of a boat S520L (F).

- 6. Steering console
- 7. Steering double seat
- 8. Navigation arch
- 9. Fiberglass step end
- 10. Cleat



STEERING CONSOLE COMPONENTS



Steering system

Steering cable

Steering wheel (1)

Windshield (2)

Handrail (3)

Throttle lever (optional*)

Speedometer (optional*) (4)

Fuel indicator (optional*) (5)

Tachometer (optional*) (6)

Switches (7):

Front seat (8)

Cup holders (9)

Fig. 41. Steering console components.

When your trip is finished, always remove the key from the ignition switch. This will prevent theft or unauthorized use of your boat.

* - The manufacturer does not supply these components. Please contact your regional Dealer for the installation of required components.



GENERAL VIEW OF A BOAT S520

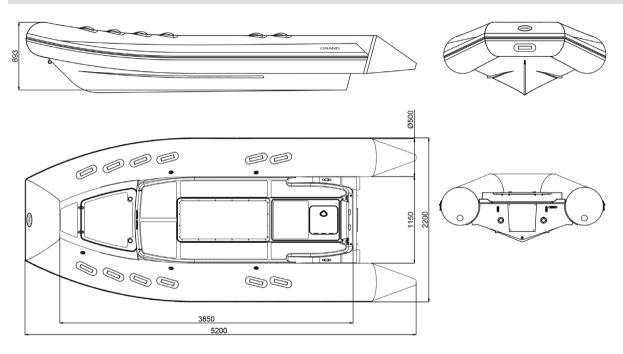


Fig. 42. General view of a boat S520.



GENERAL VIEW OF A BOAT S520S

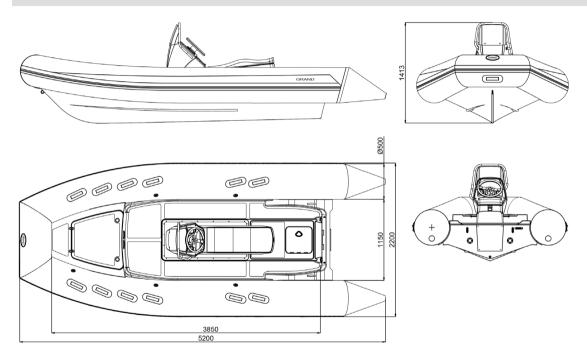


Fig. 43. General view of a boat S520S.



GENERAL VIEW OF A BOAT S520L

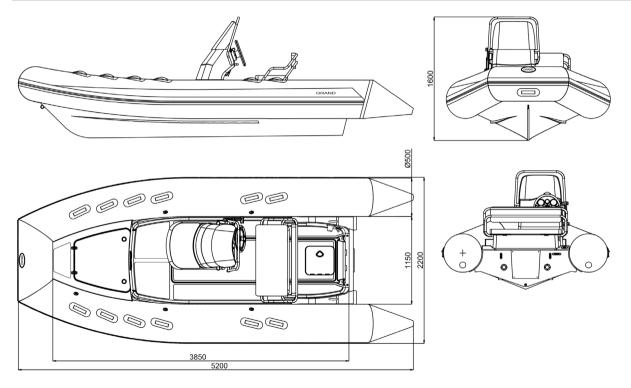


Fig. 44. General view of a boat S520L.



LOADING PASSENGERS FOR S520S (F)

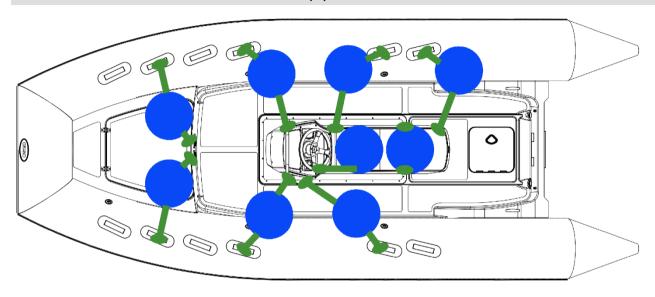


Fig.45. Recommended seating arrangement for 9 persons.



LOADING PASSENGERS FOR S520L (F)

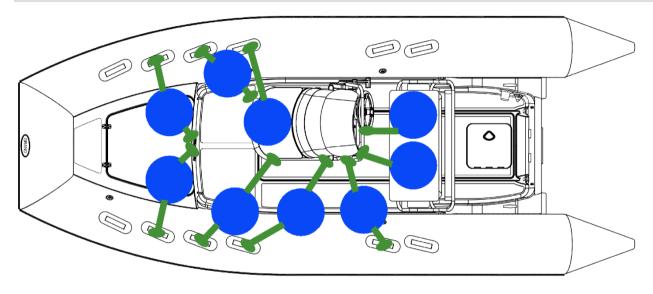


Fig.46. Recommended seating arrangement for 9 persons.



ELECTRICAL SCHEMATIC DIAGRAM

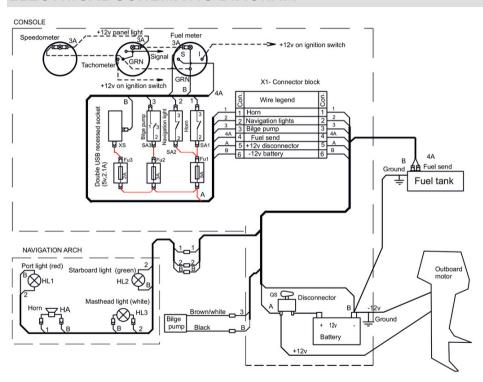


Fig. 47. Electrical schematic diagram.



SERVICE AND MAINTENANCE

CLEANING

- Regularly clean your boat and make sure this is done before winterizing.
- For cleaning use household cleaner (non abrasive) and fresh water only!
- At all times keep the inflatable tube, vinyl and other boat parts free of any chemical components such as:
 - o Gasoline, grease, oil and any other oily product.
 - Suntan oils, lotions and any other body care products.
 - o Pollution products, dirt and dust.
 - Silicon based products.
- To prevent damage clean and rinse the boat or relevant part as soon as possible if you find any of these items on your boat.
- When not in use keep your boat properly covered.
- Keep your boat away from or well protected against car or other exhaust smoke or pollution, which may damage the boat.



CLEANING OF TUBE

An important factor for the long life of tube fabric is regular adequate cleaning.

The subsequent cleaning procedure is recommended:

- Rinse off with clear, tap water (approx. 20 °C).
- Use gentle soapy water (pH value neutral to slightly alkaline) to wash the tube by means of a soft cloth or brush. Do not leave the soapy water on the surface for more than 5 minutes.
- Clean the surface very thoroughly and make sure that no soap residue remains on the surface.
- Then dry by wiping off the surface with a soft cloth.



DO NOT USE:

- Any cleaning device that might cause mechanical damage to the surface such as hard brushes, high-pressure washers, etc.
- Any cleaning agents (scouring agents or scrubbing powder), which will damage the surface;
- Strong alkaline cleaning agents.
- Acid cleaning agents.
- Solvent based cleaning agents (e. g. based on ester, ketone, ether, furan or benzol).
- Petrol, diesel, kerosene.
- Self-made cleaning agents.
- Bleaching or oxidizing cleaning agents (e.g. containing hydrogen peroxide, sodium hypochlorite, chlorine dioxide or sodium dithionite).



AIRTIGHTNESS OF THE INFLATABLE TUBE

The tube is considered to be airtight if it retains the recommended inflation pressure for 8 hours.

- As the inflatable tube is a primary safety feature check the airtightness of your boat regularly. Inspect the condition of all inflatable components and remember that some natural release of pressure (see the information below) can occur. Make sure that:
- There are no material cracks, holes and leaks.
- All inflation valves and seams are intact.
- ISO 6185 standard permits up to 20% loss of pressure in any compartment within 24 hours.
- If you discover a significant reduction in pressure add some air using the foot pump supplied.

Never use high-pressure equipment to inflate your boat;

Changes in ambient temperature have a significant influence on air pressure within the tube. A variation of 1°C results in a variation in pressure of about +/- 4 mb (0,06 psi).



- If you discover a significant reduction in pressure, but do not see any obvious sources of leakage:
 - Step 1: check the inflation/deflation valves and overpressure valves.
 - Step 2: check the major seams.
 - Step 3: check the tube material from top to bottom.

Contact your Dealer for advice if necessary.

If you discover any source of leakage, it must be properly repaired.



DO NOT OPERATE YOUR BOAT IF YOU ARE AWARE OF AIR LEAKS.



MAINTENANCE OF STAINLESS STEEL

- We use only top quality stainless steels, which are resistant to corrosion. However, this may not be permanent and maintenance is sometimes required so:
 - Avoid contamination and scoring to the surface.
 - Frequently wash with fresh water.
- Apply a little marine type grease and mirror polish it regularly.

If you see a sign of rust – clean and mirror polish the area as soon as possible.

WINTERIZING AND STORAGE

- When storing your boat, keep it in a clean and dry place so that is not affected by major variations in temperature and other conditions.
- You may store the boat:
 - Assembled and partly inflated with a cover so as to protect it from direct sunlight, dirt, dust and pollution.
- For winterizing:
 - Clean and dry the boat, including seat cushions and any wooden components,
 - Completely drain all water from the hull and bilge compartment.
 - Disconnect and remove the battery.
 - Grease all metal moving parts and connections, including steering.
- Properly close the fuel system to avoid any vapour leaks.
- If possible allow air to circulate within the boat, a breathable canvas cover will help.

Winterize the motor, following the manufacturer's instructions.



- 1. WHEN THE BOAT IS IN STORAGE MAKE SURE IT IS COVERED.
- 2. STORE THE BOAT AWAY FROM RODENTS.
- 3. AVOID SHARP FOLDS IN THE TUBE MATERIAL.

REGULAR INSPECTIONS

- Check frequently all navigation lights, horn, VHF radio (if fitted), safety handles, handrails and all other safety related equipment.
- Check frequently the tightness of various screws, bolts and nuts, with particular attention to those holding the engine onto the transom. Also check all steering system components are secure and functioning correctly.
- Regularly examine your fuel system, replace old or damaged components and check the tightness of the fuel line connections.

REGULARLY CHECK THE TIGHTNESS OF THE ENGINE TRANSOM BOLTS AS THEY MAY BE AFFECTED BY VIBRATION.

TRAILERING

TRAILERING

Make sure the trailer is set up correctly so that it supports the boat properly. This makes towing safer, and loading and unloading easier. Make certain the boat is properly secured at front and rear of the trailer as incorrect trailering can cause serious traffic accidents and is one of the major causes of boat damage.



Fig. 48. Trailer.

LIFTING THE BOAT

To lift the boat and place it on davits, use the factory fitted lifting eyes only, or have them installed by your Dealer if the boat is not equipped. Use only certified and rated lifting slings, appropriate for your boat and motor weight.



- MAKE SURE NOBODY IS ON BOARD WHEN LIFTING.
- 2. WHEN LIFTED, THE BOAT SHOULD BE EMPTY (NO REMOVABLE EQUIPMENT) AND TIPPED SLIGHTLY TOWARD THE REAR WITH COCKPIT DRAIN VALVES OPEN.

BOAT TOWING

Before towing your boat please refer to the trailer manufacturer's manual and also note the following:

- The size and carrying capacity of the trailer should be suitable for the size and weight of your boat including the engine. Do not use a trailer that is too big or too small for your boat.
- Make sure that the trailer provides adequate support for the keel and roller sets that provide large contact areas for the hull.
- The boat must be properly inflated and the cockpit drain valves open.
- Haul the boat onto the trailer using the bow eye.
- Make sure that the outboard engine leg is in the "trailering position". Refer to manufacturer's manual.
- Secure the boat to the trailer with suitable straps or rope, using bow, lateral and rear eyes for this purpose.
- Close and secure all hatches and openings on the boat. Cushions must be placed in lockers or removed to prevent loss during transit.

Do not trailer the boat with the overall cover in place, it is not designed for transportation.

SHOW RESPECT FOR THE ENVIRONMENT

REMEMBER THAT RESPONSIBLE BOATING BEGINS WITH YOU!

Respect your environment by applying the following basic rules:

- AVOID CREATING EXCESSIVE WASH.
- KEEP OUT OF DESIGNATED SWIMMING AREAS.
- RESPECT ALL ANIMAL LIFE.
- BE CAREFUL NOT TO OVERFILL THE FUEL TANK.
- DON'T MAKE UNNECESSARY NOISE.
- DO NOT DISCHARGE OIL OR FUELS INTO THE WATER.
- DO NOT LITTER.

The health of our environment depends on us all acting responsibly to ensure a clean tomorrow. If each of us follows these few simple rules, we can help to keep the Earth's resources intact for future generations.

GRAND'S WARRANTY

GENERAL

Subject to the terms and conditions detailed below, Grand Marine Corporation warrants that Grand Inflatable Boats are free from defects in material or workmanship for the defined warranty period, and will, at its option, repair or replace defective parts on return of the craft to the premises of an Authorised Grand Reseller.

This warranty applies to new Grand Inflatable Boats purchased from an Authorised Grand Marine Reseller.

By using the Grand Inflatable Boats, the owner and operator understands and agree to undertake all instructions in the Grand Owner's Manual, and agrees to all warranty and liability terms and conditions contained in this warranty.

WARRANTY PERIOD

Grand warrants Grand branded components from the date of purchase for a period of:

- 24 consecutive months for normal personal recreational use*.
- * Normal recreational use is defined as not more than 100 annual return trips with not more than 100 annual outboard hours. Greater annual usage than this is not covered by the Grand recreational warranty.

WARRANTY COVERAGE

The Grand warranty covers the following:

- Grand hull and its appropriated hull components.
- Inflatable tubes.

This warranty is limited to repair, or at Grand option, replacement of parts suffering from any of the defects described above during the warranty period. The judgment of Grand is final concerning the extent of items covered under above warranty.

The outboard engine, electrical and electronic components, other auxiliaries are subject of the warranty of the appropriate Manufacturer.

WARRANTY EXCLUSIONS

Grand warranty does not cover the following:

- Replacement of parts due to normal wear and tear.
- Routine maintenance parts and services, including but not limited to, maintenance requirements, oil and lubrication, replacement of fuses or bulbs, linkage adjustments, filters and spark plugs, tyres, and other consumable items.
- Damage caused by not following procedures and recommendations in the Grand Owner's Manual.
- Operating the craft beyond the design category.
- Damage caused by improper or lack of maintenance, winterization or storage.
- Damage caused by abuse, impact, accident, misuse, abnormal use or strain, neglect, racing, improper operation or operation not in accordance with the recommended procedures described in the Grand Owner's Manual.
- Damage or cosmetic changes due to exposure to the atmospheric or environmental conditions, including mould or marine organisms, or outside galvanic activity.
- Damage resulting from tears, punctures, abrasions, abuse, external damage, accident, submersion, water ingestion or contamination, fire, theft.

WARRANTY CERTIFICATE

Name of Customer:	
Address:	
City:	Post code:
E-mail	Phone number:
WIN (Serial number):_	
Signature:	
Dealer address:	
City:	Post code:
Date of purchase:	

Seller and customer acknowledge by signing that seller handed and customer received hereinbefore boat including standard (optional, if relevant) equipment and manual in English and that the boat is without evident defects.

SELLER SIGNATURE:

CUSTOMER SIGNATURE:

FOR YOUR NOTES



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