

Rigid Inflatable Boat

GOLDEN LINE

Models:

G480L, G480GL

User's Manual

INTRODUCTION.

"GRAND" inflatable motor boat of the "GOLDEN LINE" series: G480L, G480GL has been designed under requirements of ISO 6185 "Plastomer and Elastomer Inflatable Boats" and DIN 7870 "Inflatable Boats with Reinforced Shells".

PURPOSE.

The rigid inflatable motor boat of the "GOLDEN LINE" series relates to the category of pleasure boats and is intended for water sports, tourism, the use as a floating means on board of launches, yachts and other vessels.

TECNICAL DATA SPECIFICATION

Model	Unit	G480L / G480GL
Length overall	m	4,8
	ft-inches	15'9"
Length inside	m	3,4
	ft-inches	11'2"
Width overall	m	2,05
	ft-inches	6'9"
Width inside	m	1,02
	ft-inches	3'4"
Tube diameter max	m	0,51
	ft-inches	20"
Number of chambers		4
Passenger capacity	pers.	6
Load capacity	kg	1000
	lbs	2200
Boat weight	kg	265
	lbs	583
Engine power recommended	HP	50
	kW	36.8
Engine power max	HP	70
	kW	51.5
Engine weight max	kg	110
	lbs	242
Engine shaft length	ft-inches	20" (long)
Tube color		light-grey
Boat design Category (Dir.94/25/EC)		C

COMPLETE SET

Model		G480L		G480GL
Description	unit	q-ty	availability	availability
1. Inflatable boat	pcs.	1	☐	☐
1.1 Automatic bilge pump with pipe	pcs.	1	☐	☐
1.2 Bow seat cushion	pcs.	1	☐	☐
1.3 Side seat cushion	pcs.	1	☐	☐
1.4 Molded-in rear seat	pcs.	1	☐	☐
1.5 Rear seat cushion	pcs.	1	☐	☐
1.6 Molded-in rear stowage	pcs.	1	☐	☐
1.7 Rear seat back	pcs.	2	☐	☐
1.8 Bolt M6X50	pcs.	8	☐	☐
1.9 Shaped washer	pcs.	16	☐	☐
1.10 Washer 6	pcs.	8	☐	☐
1.11 Arrester nut M6	pcs.	8	☐	☐
1.12 Oar / paddle	pcs.	2	☐	☐
1.13 Foot pump	pcs.	1	☐	☐
1.14 Set of spare parts and repair kit	pcs.	1	☐	☐
1.15 Maintenance kit & User's manual	pcs.	1	☐	☐
2. Steering console CL-03	pcs.	1	☐	☐
2.1 Soft back	pcs.	1	☐	☐
2.2 Windscreen	pcs.	1	☐	☐

COMPLETE SET (continuation)

Description	unit	q-ty	availability	availability
2.3 Steering system	pcs.	1	☐	☐
2.4 Steering cable	pcs.	1	☐	☐
2.5 Steering wheel	pcs.	1	☐	☐
2.6 Speedometer	pcs.	1	☐	☐
2.7 Tachometer	pcs.	1	☐	☐
2.8 Compass	pcs.	1	☐	☐
2.9 Navigation lights switch	pcs.	1	☐	☐
2.10 Electric horn switch	pcs.	1	☐	☐
2.11 Drain pump switch	pcs.	1	☐	☐
2.12 Electric accessory socket (phone charge plug)	pcs.	1	☐	☐
2.13 Battery disconnecter with wire	pcs.	1	☐	☐
2.14 Battery container	pcs.	1	☐	☐
2.15 Fire extinguisher container	pcs.	1	☐	☐
2.16 Screw M4X16	pcs.	6	☐	☐
2.17 Washer 4	pcs.	6	☐	☐
2.18 Arrester nut M4	pcs.	6	☐	☐
2.19 Nut M8	pcs.	4	☐	☐
2.20 Washer 8	pcs.	4	☐	☐
2.21 Screw M6X25	pcs.	4	☐	☐

COMPLETE SET (continuation)

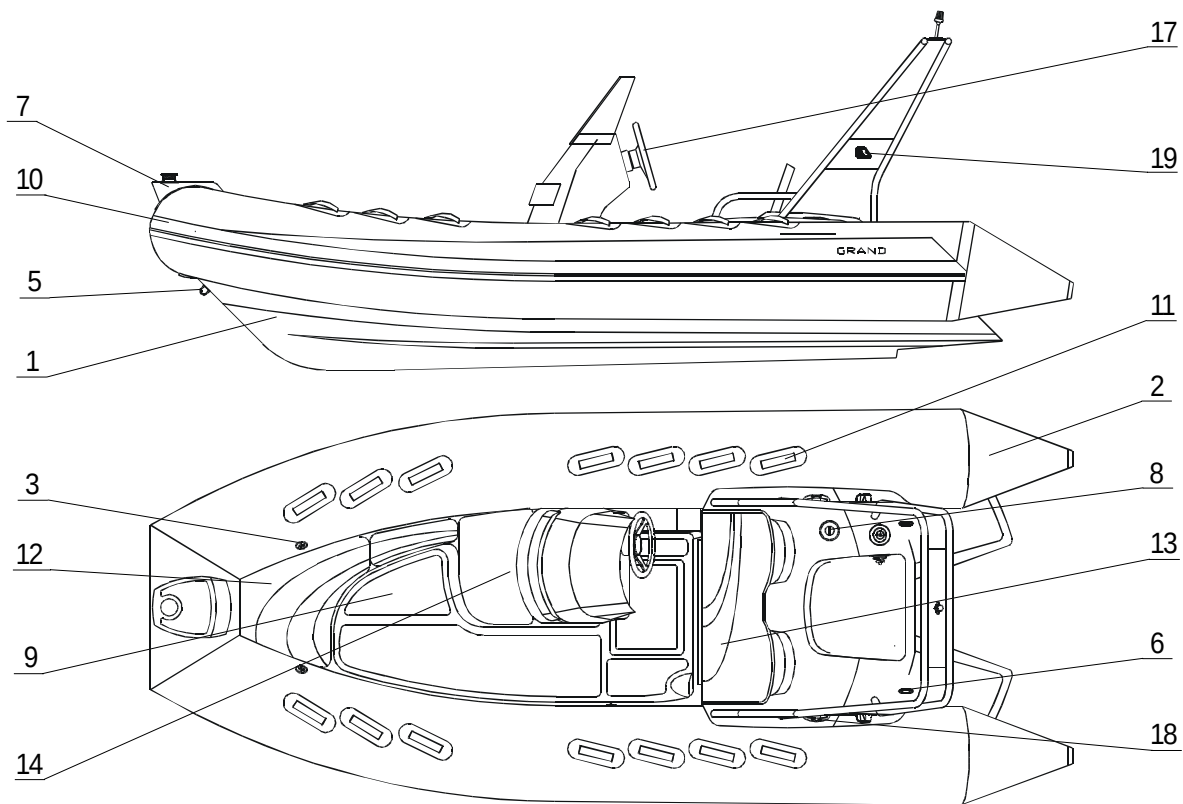
Description	unit	q-ty	availability	availability
2.22 Screw bush #1	pcs.	4	☐	☐
2.23 Bush #2	pcs.	4	☐	☐
2.24 Cup	pcs.	4	☐	☐
2.25 Arrester nut M6	pcs.	4	☐	☐
2.26 Washer 6	pcs.	4	☐	☐
2.27 Bolt M8	pcs.	4	☐	☐
2.28 Washer 8	pcs.	4	☐	☐
3. Fuel system				
3.1 Fuel tank	pcs.	1	☐	☐
3.2 Fuel level sender	pcs.	1	☐	☐
3.3 Fuel level gauge	pcs.	1	☐	☐
3.5 Fuel filler	pcs.	1	☐	☐
3.6 Fuel tank vent	pcs.	1	☐	☐
4. Additional equipment				
4.1 Sundeck cushion	pcs.	1	☐	☐
4.2 Sundeck floorboard	pcs.	1	☐	☐
4.3 Steering console cover	pcs.	1	☐	☐
4.4 Overall cover	pcs.	1	☐	☐
4.5 One lever side-mount remote control with trim switch	pcs.	1	☐	☐
4.6 Waterski towing mast set	pcs.	2	☐	☐

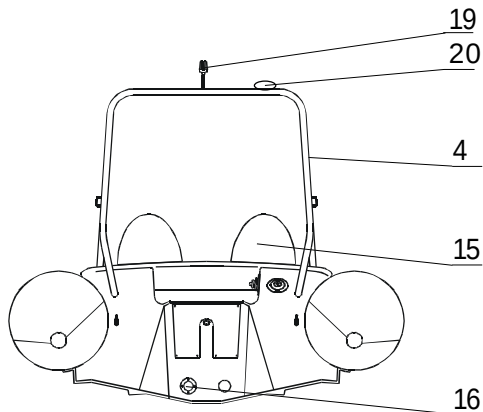
COMPLETE SET (continuation)

Description	unit	q-ty	availability	availability
4.7 St. steel rear round railing	pcs.	1	☐	☐
4.8 St. steel arc	pcs.	1	☐	☐
4.8.1 Masthead(white)	pcs.	1	☐	☐
4.8.2 Port(red)	pcs.	1	☐	☐
4.8.3 Starboard(green)	pcs.	1	☐	☐
4.8.4 Electric horn	pcs.	1	☐	☐
4.8.5 Bolt M12X40	pcs.	4	☐	☐
4.8.6 Nut M12	pcs.	2	☐	☐
4.8.7 Washer 12X38	pcs.	6	☐	☐

☐ — Your "GRAND" boat "GOLDEN LINE" complete set included this items.

Note: Perfection of the design and improvement of quality of our products is the fundamental production policy of our company. Therefore, alternations may be made to the complete set (and as the components parts become available).





Pos	Item
1	Fiberglass hull
2	Buoyancy tube
3	Inflation / deflation valve
4	St. steel arc
5	Towing bow eye
6	Stern lifting eyes
7	Bow step plate with rope cleat
8	Fuel filler and vent
9	Antiskid deck surface
10	Double lead raised rubbing strake
11	Safety grab handles
12	Molded-in bow stowage with cushion
13	Molded-in stern stowage with seat cushion
14	Molded-in console CL-03 with front stowage, cushion, soft back and rear access hatch
15	Rear seat back with cushion
16	Hull drain plug
17	Steering wheel
18	Pull-up cleat (stern)
19	Navigation lights
20	Electric horn

PREPARATION FOR EXPLOITATION.

In order to set the boat in the operation condition perform as follows:

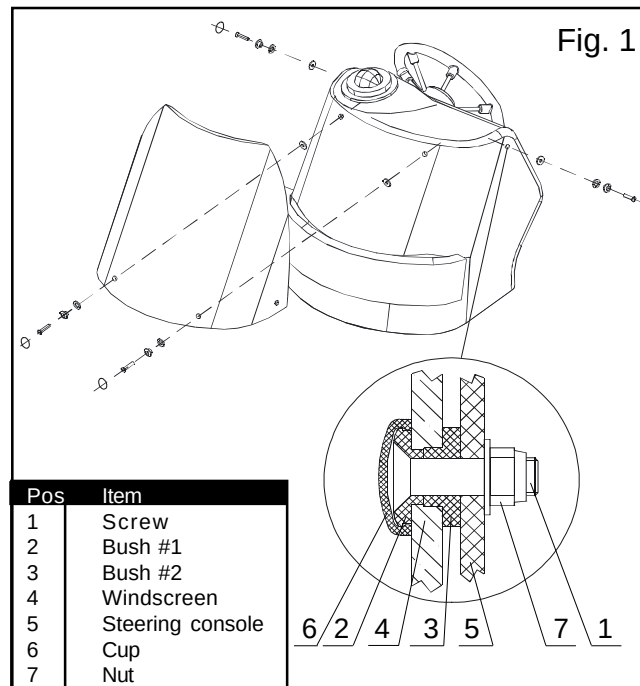
- unfold the inflatable tube;
- mount the outboard engine on the transom in accordance with its own installation instruction.
- extend the engine remote control cables and steering cable from engine mounting place to steering console mounting place through the holes on the deck and helm stowage.

STEERING CONSOLE INSTALLATION

In order to install the windscreen onto the console perform the next operations (Fig. 1):

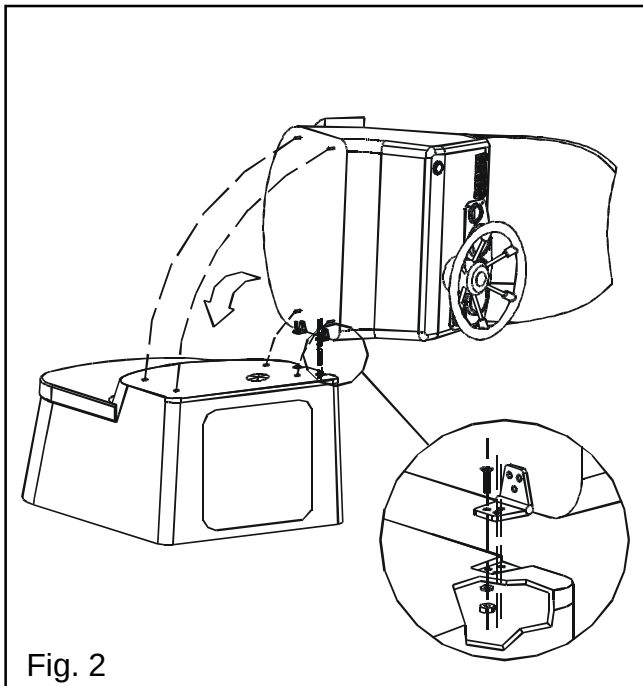
- align the holes in the windscreen with the holes in console overhead part;
- fix windscreen by means of the shaped screws M6x25, bushs, washers and nuts M6 from the complete set;

ATTENTION ! To avoid the water penetration into the console inner layers, please, tight all the hole free space with any water resistant filler.

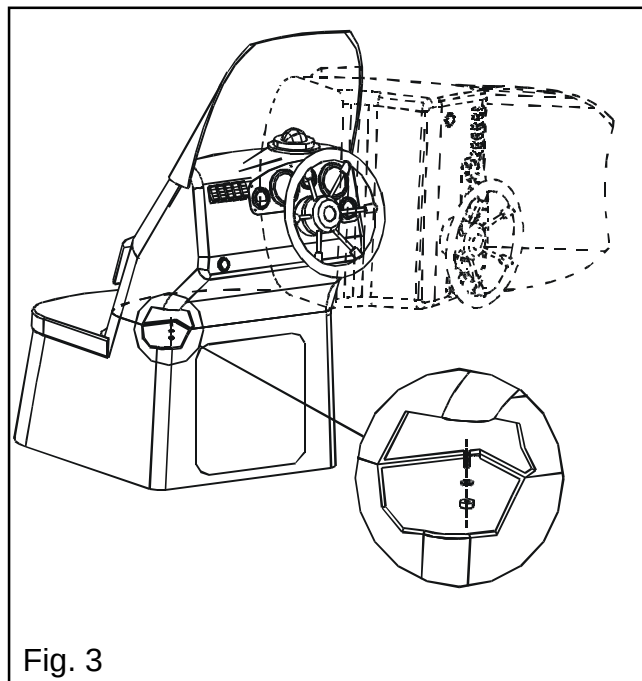


- fix overhead part of the steering console to lower part by means of head screws M4X16, washers and arrester nuts M4 from complete set (see Fig.2);

ATTENTION ! To avoid the water penetration into the console inner layers, please, tight all the hole free space with any water resistant filler.



- attach steering system cable in accordance with its own installation (manual);
- connect electric cable to the steering console (see wiring diagram);
- close and fix overhead part of steering console by means of washers and nuts M8 from complete set (see Fig.3)



SOFT BACK OF STERN LOCKER SEATING MOUNTING.

In order to install the stern locker seat-back, perform the next:

- hinge out the seat of stern locker;
- insert back support into the holes of stern surface;
- fix seat-back by means of the bolts M6x50, shaped washers, washers and arrester nuts M6 from the complete set;
- tighten all the bolts;
- replace the locker seat.

ATTENTION ! To avoid the water penetration into the hull inner layers, please, tight all the hole free space with any water resistant filler.

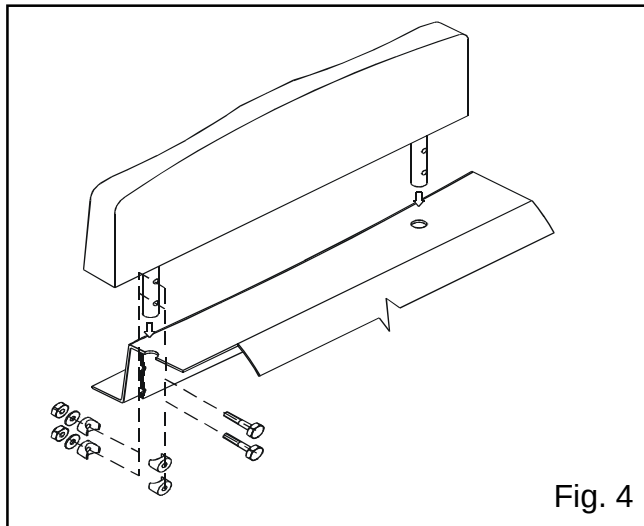


Fig. 4

ARC MOUNTING.

In order to install the arc, perform the next:

- hinge out the seat of stern locker;
- insert the arc stud in the stern surface holes ;
- fix arc by means of the bolts M12X40 , nuts M12 and washers from the complete set (see Fig. 5);
- connect electric cable of arc with main electric cable (see wiring diagram);
- tighten all the bolts and nuts;
- replace the locker seat.

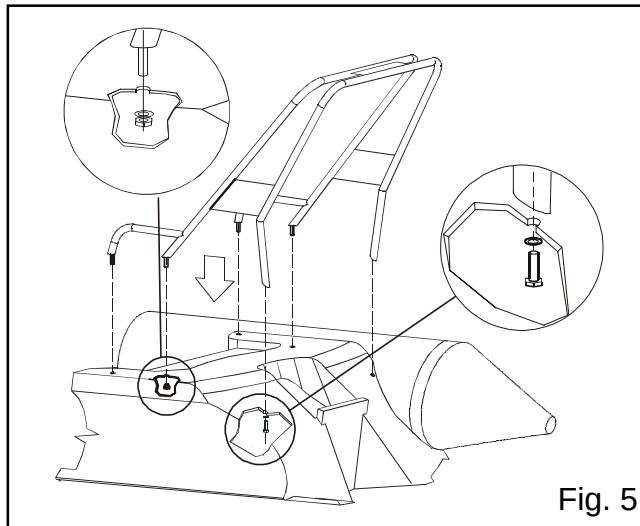


Fig. 5

SUNDECK MOUNTING.

In order to install the sundeck, perform the next operations:

- open the bow locker and console front seating;
- insert the sundeck floor board into the specified recesses in the bow and console lockers;
- close the bow locker and console front seating;
- hinge out and fix the support of the sundeck by means of the ring-bolt from the complete set;
- set the sundeck cushions on the press-buttons (see Fig. 6).

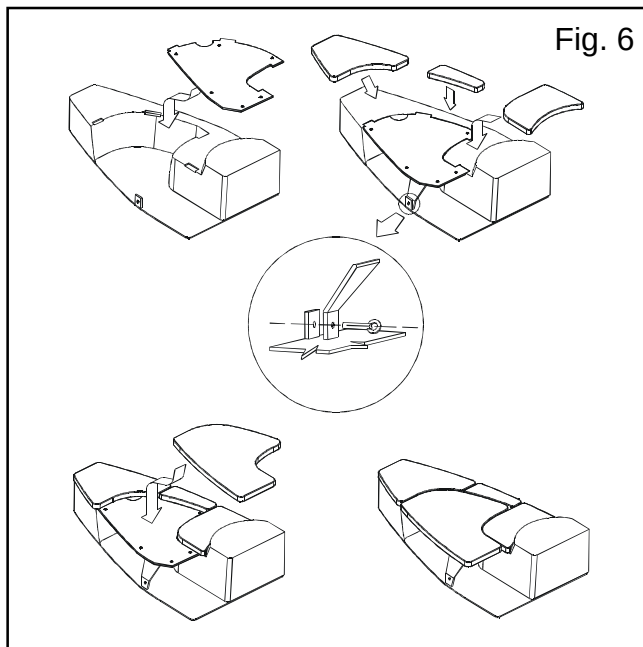


Fig. 6

CONSOLE EQUIPMENT.

Console equipment included:

- steering system;
- steering cable;
- steering wheel;
- compass(4) (optional equipment);
- tachometer (1) (optional equipment);
- speedometer (2) (optional equipment);
- fuel level gauge (3) (optional equipment);
- trim indicator (5) (optional equipment);
- electric accessory socket (9);
- switches and fuses
 - navigation lights and meter lamp switch (6);
 - hull drain pump switch (7);
 - horn switch (8).

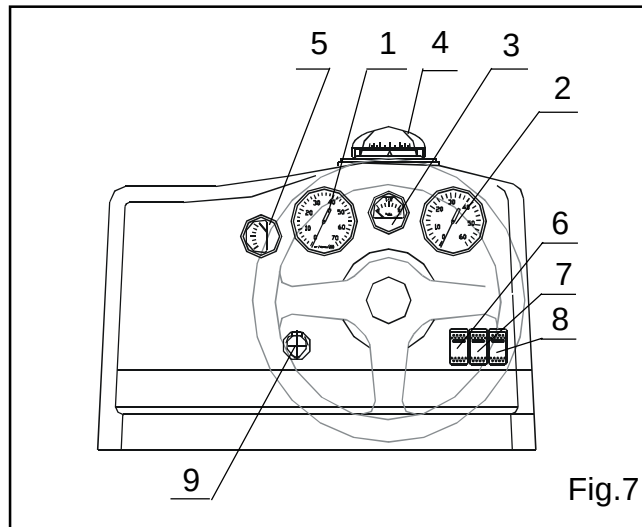


Fig. 7

INFLATION / DEFLATION VALVES OPERATION

The inflation/deflation valve is intended for:

- filling the compartment with air from a standart pump or filling system and maintaining pressure in the tube for prolonged time,
- adjustable drop of pressure in compartment.

The air fill valve is designed as a tab-type non-return valve.

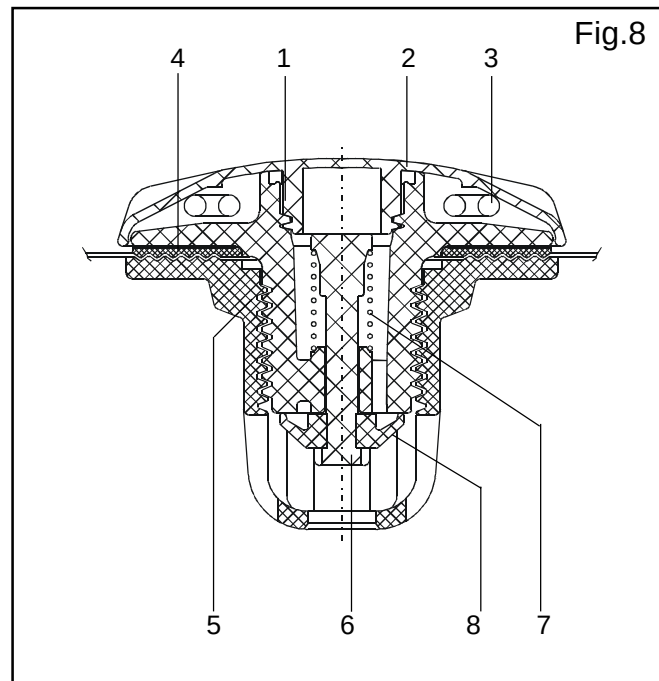
Every inflation / deflation valve includes the following parts : valve body 1, valve nut 5, valve cap 2 with strap 3, washerwith gasket 4, spindel 6 with spring 7, cup diaphragm 8 (Fig.8).

INFLATION MODE : valve is closed with gasket 4 tight . To move the valve to deflation mode : push the button 6 and turn it clockwise to fix it in lower position

DEFLATION MODE : button is fixed in lower position. To move the valve to inflation mode : push the button 6 and turn it counter clockwise. The button goes to upper position.

ATTENTION !

1. Overinflating of your boat, when the air pressure is more than nominal, sufficiently decreases the boat life time.
2. The valves are airtight just in case they are closed with the caps tight.
3. The tube is airtight in case it keeps its form for 8 hours at least.



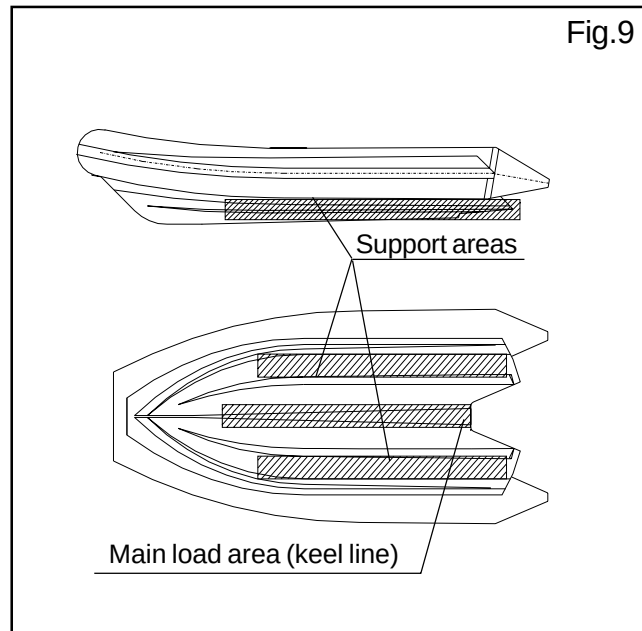
BOAT TRAILERING

When trailering fix the boat securely on the trailer, bearing rollers must support the boat on signled out position (Fig.9).

The maximum load should be located on the keel line. The side areas of the bottom may be used for support purposes only.

IT IS FORBIDDEN!

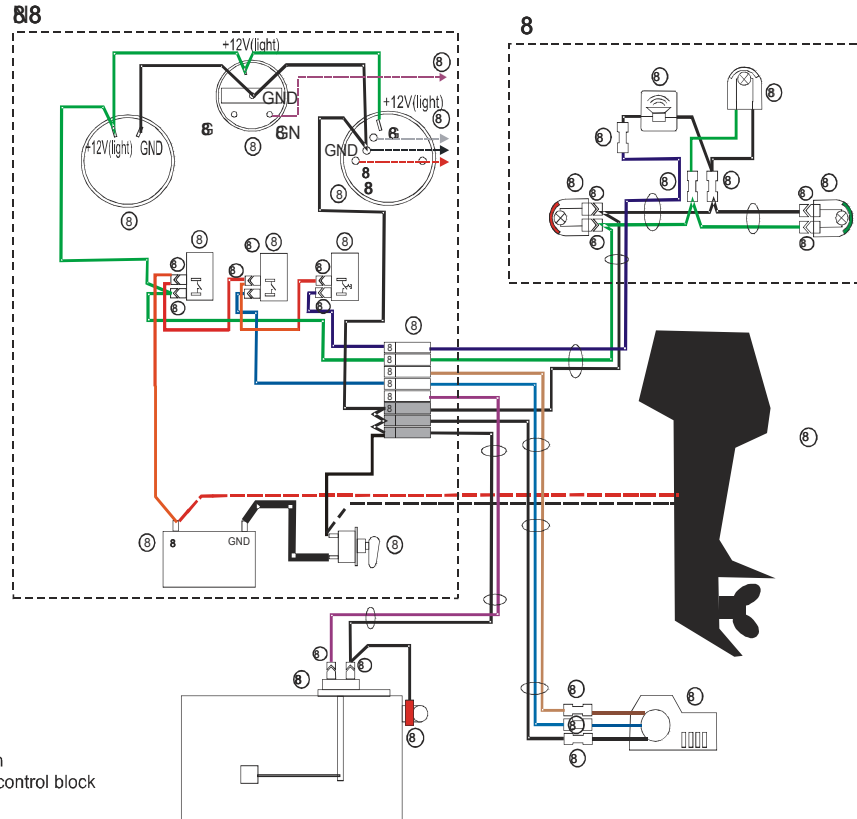
In order to avoid the hull damage trail the boat no staying on the side areas only.



Wiring diagram

Diagram legend

- 1 Battery
- 2 Disconnecter
- 3 Connector block
- 4 Navigation light switch
- 5 Hull drain pump switch
- 6 Horn switch (unfix)
- 7 Speedometer
- 8 Fuel level gauge
- 9 Tachometer
- 10 Port (red)
- 11 Masthead (white)
- 12 Starboard (green)
- 13 Horn
- 14 Automatic hull drain pump
- 15 Fuel level sensor
- 16 Fuse (10A)
- 17 Connector
- 18 Clip
- 19 Fuel tank ground clip
- 20 Outboard motor
- 21 Wire 12V to ignition switch
- 22 Wires to motor and motor control block



MAINTENANCE

Main conditions of long service life is right and careful service.

■ Avoid excessive increasing of pressure in the board, especially from heating by the sun rays.

■ After exploitation take off sand and dirt from boat surface, and carefully dry it.

■ Avoid the water getting into the chambers. If a fuel or an oil / gas gets to the boat surface it is necessary to wash the soiling place by soap water as soon as possible and dry.

■ Pay attention to the condition of bottom and seat surfaces. If the coating is destroyed it is necessary to dry this element and restore the defend ply.

■ After the season prepare the boat to winter keeping. Clean boat surface from sand and dirt and make the necessary repairs, if damages take place. If it is possible, keep the boat in the open and slightly pumped state in air temperature 0-25°C. The boat must be protected from the sun rays.

■ Insignificant boat repairing (eliminating the board punctures or cuts) you may carry out by yourself. In this case use the coated fabric patches from the complete set. Ask your dealer for the correct type of glue you may use for the repair.

■ In case if sufficient damages of hull, tube body, partitions or seams it is recommended to apply for professional repair in authorised service station.

OPERATING REGULATIONS

Dear user,

We thank you for your purchase and do hope that you will have a great fun of it. However, to make your joy and pleasure complete, we would request you to read carefully and observe the directions and recommendations specified below.

IT IS STRICTLY FORBIDDEN :

to handle the boat in the state of intoxication and without individual rescue means being used (life-saving belts, jackets, etc.)

IT IS FORBIDDEN :

- to overload the boat above the design weight-carrying capacity;
- to use an outboard engine of power exceeding the maximum allowable value;
- to bring the tube pressure up to the value exceeding the rated one (0.15 bar);
- to drag the boat across a rough surface.

■ Danger of usage of engine having insufficient or excessive power

According to the safety regulations, each inflatable boat should be furnished with an outboard engine having the maximum allowable power. You will find the data on the maximum allowable power of the engine on the manufacturer's plate with the designation of the model type inscribed thereon. The plate is fixed in the afterbody of the boat. However, your should choose the engine power within the allowable range so as to ensure that you may safely reach the shore when heading into the wind or into the current.

■ Observation of local shipping regulations

For each particular water area the local shipping regulations are in force. You may apply for information to the appropriate water transport and shipping directorate, as well as to the water police.

■ Proper usage of boat equipment and accessories

Use the boat equipment and accessories only on their direct purpose to ensure reliable service.

■ Availability of Oars

Even when sailing with an outboard engine you should always have the oars available with you so that you were able to reach the shore without outside assistance in case of any damage to the boat.

■ Usage of emergency stop switch

On your request any outboard engine seller may provide your engine with the emergency stop switch. During navigation the switch should be connected to the wrist of your hand by means of a cord. In case you fall overboard, even if being a steersman, the switch will cut out the engine and the propeller. This arrangement will enable you to avoid any traumas and to reach the boat.

■ Prevention of damages caused by electrolyte or fuel leakages

Take all possible precautions against penetration of fuel or electrolyte from the storage battery into the inflatable boat. If it does happen wash thoroughly the fouled spots with water.

■ Cargo arrangement and stowing, attachment of items and prevention of falling overboard

You should be always sure that the number of people on board never exceeds that specified in the user's manual or on the manufacturer's plate provided on the transom. The boat will retain an adequate floatability and will not keel over only provided that the load is arranged reasonably. Therefore, do

not accommodate all passengers on the same side of the boat. Arrange the cargo to be carried uniformly inside the boat, all items being reliable secured on the bottom of the boat. All passengers should be accommodated inside the boat. The occupied seats should not be left throughout the entire sailing time. When sailing with an outboard engine the steersman should shift his body forward in the course of acceleration to prevent the boat forebody from raising under the force of upthrust waves.

■ Presence of sharp and pricking objects on board

Despite the strong shell of the boat we are recommended to handle sharp and pricking objects being on board with care. For example, it concerns a knife blade, fish-hook point, etc.

■ Rocky shore, mole, shoals (for example, sand banks, coral reefs, rocks)

Approach rocky shores, shoals, moles, etc. carefully to avoid damages to the boat. It is strictly prohibited to drag the boat across rough surfaces (shingle, rocks, concrete, etc.).

■ Check at navigation

In case of prolonged navigation with the use of an outboard engine, regularly check to ensure that the engine is reliably attached to the boat. If the engine was attached carelessly the attachment may work loose under the action of vibration.

Besides, check air chambers pressure at regular intervals, since the pressure may vary under the effects of outside air temperature and atmospheric pressure variations.

Never forget to monitor regularly the quantity of fuel in the fuel tank. Keep always in mind that the quantity of fuel should be sufficient for you to sail to your final destination.

■ Availability of rescue means (life-saving jackets, distress signals, spare parts)

If you are planning to go beyond the protected water areas you should provide all passengers on board with life-saving

jackets. All passengers should put on life-saving jackets under strong wind and heavy seaways conditions. Those passengers who cannot swim should always carry the life-saving jackets while on board! It is also recommended to keep constantly distress signal means on board.

■ Towing

At towing the towing rope length should not be at least 3 lengths of the boat, the rope being secured to both boats in a manner ensuring its immediately, single-motion release. The steersman of the towed boat should be assisted by another crew member to monitor the process of towing. In this case, certain communication gestures should be agreed upon beforehand.

■ Damage to one of air chambers

The inflatable boat is designed to provide an adequate stability in case of the complete damage to one the air chambers (balloon compartments) at the expense of the remaining air chambers and the hull. Thanks to it, you will be able to reach safely the nearest shore. Reduce the speed and shift your body to the undamaged part of the boat. Watch changes in stability. After this immediately head for the nearest shore. To prevent penetration of water into the boat, pull the shell of the damaged air chambers upwards.

■ Anchor and mooring fast fastening

Fix the anchor and towing ropes in the forebody of the boat to the front towing ring. Fix the back spring on the transom via special holes.

■ Danger of currents and wind

Before navigation of the boat in unfamiliar waters make detail inquiries about local conditions and regulations! Currents, wind, shoals, rising and falling tides, as well as weather variations may imply serious danger!

■ In emergency stay in boat

In any unexpected situation (engine failure, boat damage, etc.) do not ever leave the boat provided it is still afloat. Even if you believe that the shore is just nearby stay in the boat, since you will be looked for in this particular place and, most probably, will be found. Should the boat become partially flooded throw heavy objects (batteries, fuel tank, engine) overboard to ensure additional floatability.

The "GRAND" Company employees would like to wish you a pleasant and safe leisure time!

MODEL

SERIAL No.

Date of manufacture

Quality inspection stamp