

OWNER'S MANUAL

English

SERIE: "EAGLE"

MODEL: E780

complete sets: E780
E780N OverNight

Design category (2013/53/EU): B / C
ISO6185: Type VIII

| | |
|---|----|
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For your safety and for the validity of the guarantee expert and authorised personnel must install the motor and inspect and check the systems. All onboard systems must be completed and inspected.

CHECK, THAT THE CHECKS HAVE BEEN MADE AND THAT THE PLANTS HAVE BEEN COMPLETED BEFORE DELIVERY.

BRIG Ltd declines any responsibility for systems and accessories that have not been installed and checked by expert and authorised personnel.



The manual and all its enclosures should be stored carefully, and the manual should always be kept aboard. If the craft is resold, the manual and all its enclosures must be handed over to the new owner.

CE Certification and Main Features

The CE marking indicates that the inflatable boat meets the requirements of the
Recreational Craft Directive 2013/53/EU

Certifying Body:

INTERNATIONAL MARINE CERTIFICATION INSTITUTE
Rue Abbe Cuypers 3 / B-1040 Bruxelles / Belgique
Notified Body : 0609
www.imci.org

Name of Manufacture:

BRIG Ltd.
Lozovskaya 88, Dergachy 62303
Kharkovskaya obl.
UKRAINE
www.brig-ribs.com

DANGER LEVELS.

The manual contains warnings, identified as follows:



A note like this indicates that there is serious risk, that is likely to cause death or permanent serious injury, if appropriate precautions are not taken.



A note like this indicates the existence of risk that may cause death or injury, if appropriate precautions are not taken.



A note like this indicates reference to the application of safety or environmental protection practices, or draws attention to unsafe behaviour that might cause injury to persons or damage to the craft, its components or the environment.

INTRODUCTION.

This manual was written to help you to use your boat safely. It contains information on the boat, its equipment (supplied or installed), operation and maintenance.



Before using your boat, read this MANUAL carefully and ensure that you have understood all the procedures it describes. Before taking command of your boat, be sure to have acquired experience and confidence in its operation.

IDENTIFICATION PLATE.

Builder's Plate:

| | | | |
|---|-----------------|------------------------------|--|
| BRIG <small>FOR INTELLIGENT BOATS</small> www.brig-nbs.com | | CE | |
| MODEL E780 <small>Conforms to EN ISO 6105 - a</small> | Typ VIII | Design Category B / C | |
| ≤ 220 kW 300HP | ≤ 8 / 16 | | |
| + + ≤ 1565 kg 3450 lbs | | | |
| → ● ← 0.2 bar (2.9 psi) | Mad | | |

Maximum propulsion power rating for the boat
300 HP (220 kW)

Boat Design Categories according to Directive 2013/53/EU

Passengers capacity not exceed:
8persons (Design Category B)
or
16persons (Design Category C)

The rated tube pressure value is
0.2 bar (2.9 psi).

Manufacturer's recommended maximum load, including the mass of the outboard engine(s) but excluding the mass of the contents of fixed fuel and water tanks when full

Plate with identification number:

UA-QRK12345A000



ATTENTION

It is fundamental for the plates to be aboard the boat, since they are only form of recognition and identification. Without them the boat does not comply with the legislation in effect. The plates must never be removed. Any tampering or removal not authorised by the manufacturer is the full responsibility of the owner.

BEAUFORT Wind Scale and Corresponding State of the Sea, After Few Hours of Wind, Away From the Coast.

| Force | Denomination | Knots | Km/h | m/sec | State of the sea and wave height in meters | |
|-------|-----------------|-------------|--------------|---------------|--|-------------|
| | | | | | | |
| 0 | Calm | <1 | <1 | 0-0.2 | Calm | 0 |
| 1 | Light Air | 1-3 | 1-5 | 0.3-1.5 | Calm | 0 |
| 2 | Light Breeze | 4-6 | 6-11 | 1.6-3.3 | Almost calm | 0.2 |
| 3 | Gentle Breeze | 7-10 | 12-19 | 3.4-5.4 | Almost calm | 0.2 |
| 4 | Moderate Breeze | 11-16 | 20-28 | 5.5-7.9 | Small waves | 0.5 |
| 5 | Strong Breeze | 17-21 | 29-38 | 8.0-10.7 | Large waves | 1.25 |
| 6 | Fresh Wind | 22-27 | 39-49 | 10.8-13.8 | Large waves | 2.0 |
| 7 | Strong Wind | 28-33 | 50-61 | 13.9-17.1 | Very large waves | 2.5 |
| 8 | Gale | 34-40 | 62-74 | 17.2-20.7 | Rough sea | 4 |
| 9 | Strong Gale | 41-47 | 75-88 | 20.8-24.4 | Very rough sea | 6 |
| 10 | Storm | 48-55 | 89-102 | 24.5-28.4 | Heavy | 9 |
| 11 | Violent Storm | 56-63 | 103-117 | 28.5-32.6 | Very heavy | 14 |
| 12 | Hurricane | 64 and over | 118 and over | 32.7 and over | Stormy | 14 and over |


Boat Design Categories (Directive 2013/53/EU):


| Design category | Wind force (Beaufort scale) | Significant wave height |
|--|--|--|
| "A" - "Ocean" "B" - "Offshore" "C" - "Inshore" "D" - "Sheltered waters" | exceeding 8 up to, and including, 8 up to, and including, 6 up to, and including, 4 | exceeding 4 up to, and including, 4 up to, and including, 2 up to, and including, 0.3 |


NOTE: **The significant wave height** is the mean height of the highest one-third of the waves, which approximately corresponds to the wave height estimated by an experienced observer. Some waves will be double this height.

SAFETY REGULATIONS.

This manual contains recommendations and basic rules of conduct for using the boat in complete safety. Although it is not possible to offer safety information for all potential situations, in general it is recommended that you :

| | |
|---|--|
|  WARNING | Regularly check which safety requirements are in force. |
| | Maintain the boat and the onboard plants in optimum condition. |
| | Have the boat inspected by the dealer where it was purchased or by an authorised mechanic at least once every year for your own safety and for maintaining the guarantee. |

| | |
|--|--|
|  DANGER | Always check weather and seagoing conditions before setting out. For safe navigation, compare the design category of your boat with the table above. |
| | The boat must be equipped with liferaft(s) to be stowed for the crew limit. If the liferaft is a rigid canister type, it shall be mounted in the cockpit, ready for use. If the liferaft is contained in a soft bag then it may be stowed in a compartment but shall be readily available for use. |


| | |
|---|--|
|  WARNING | <p>Max number of transportable persones is referred to an established weight of 75 kg per person (ISO 6185), so always make reference to total maximum transportable weight.</p> <p>The max weight of the installable motors indicates the maximum overall weight applicable on the stern board, including any emergency motors. NEVER exceed the stated value.</p> |
|---|--|


ALWAYS REMEMBER ABOUT FIRE DANGER .

Fire may be caused by:


Crew negligence when smoking, the presence aboard of flammable liquids, electrical contacts, propulsion motor, errors in fueling, or if maintenance has not been performed as required.


Once again, it is important that the crew behave correctly and that the boat is kept in order to avoid serious damage to it and to persons.

| | |
|---|--|
|  | Easily flammable products must not be kept aboard. |
|---|--|

| | |
|---|---|
|  | BATTERY: the battery may cause sparks or explosions. It must be stored in an appropriate container, easily reached and well aired, AWAY FROM FUEL OR INFLAMMABLE PRODUCTS . Periodically check that the clips are tight and protect them with appropriate insulation in order to prevent sparks or the spread of current. |
|---|---|

However, if a fire does occur aboard, stop motor, disconnect the batteries immediately, check to see if it is an electrical component or any case a small-scale fire that does not involve flammable liquids, in which case use a suitable fire extinguisher to try and put the fire out completely.

| | |
|---|--|
|  | Extinguisher or any other fire-fighting equipment must not be kept in compartments with key lock, but in easily accessible and clearly indicated locations. |
| | Extinguisher or any other fire-fighting equipment should be checked periodically and replaced with the same or superior types if expired or inefficient . |

| | |
|--|--|
|  | Equip the boat with fire-fighting equipment before launch and use. |
|--|--|

TECHNICAL SPECIFICATIONS.

The basic parameters and dimensions of the "EAGLE" boat E780 (E780N) comply with the data specified in the following table.
All dimension measurements indicated have a tolerance of +/- 3%, weight measurements indicated have a tolerance of +/- 5%.

| Parameter | | E780 (E780N) | |
|--|-----------|-------------------------|-------------------------|
| | | Design category | |
| | | B | C |
| Length (without engine) | m | 7.85 | 7.85 |
| Beam | m | 2.90 | 2.90 |
| Height | m | 2.29 | 2.29 |
| Inflatable tube diameter, max. | m | 0.58 | 0.58 |
| Cockpit dimensions: | | | |
| - length | m | 5.77 | 5.77 |
| - width | m | 1.69 | 1.69 |
| Deadrise angle on transom | | 20° | 20° |
| Deadrise angle in middle section | | 22° | 22° |
| Transom height | mm/inches | 622 / 24 ^{1/2} | 622 / 24 ^{1/2} |
| Number of independent air-tight chambers | pcs. | 5 | 5 |
| Nominal pressure | BAR/psi | 0.2 / 2.9 | 0.2 / 2.9 |
| Passengers capacity | persons | 8 | 16 |
| Recommended engine power | HP | 250-300 | 250-300 |
| Maximum engine power | kW/HP | 220 / 300 | 220 / 300 |
| Maximum engine weight (including controls and batteries) | kg | 335 | 335 |
| Engine shaft length | | Extra long / 25" | Extra long / 25" |
| Weight of empty boat (with steering console, with arc, with seats, without engine) | | | |
| | kg | 1080 | 1080 |
| Weight of boat with equipments | | | |
| | kg | 1150 | 1150 |
| Carring capacity of the boat | | | |
| | kg | 1940 | 1940 |
| Displacement In Light Craft Condition (LCC) | | | |
| | kg | 1500 | 1500 |
| Maximum total load ML (total weight of the fuel, weight of the people and cargo onboard) | | | |
| | kg | 1520 | 1520 |
| Maximum recommended load (including weight of the max engine(s), passengers and cargo onboard, but excluding the mass of the contents of fixed fuel and water tanks when full) | | | |
| | kg | 1565 | 1565 |
| Loaded displacement mass (LDC) | | | |
| | kg | 3020 | 3020 |

E780 COMPLETE SETS.

Rigid inflatable boat model E780 has two complete sets: E780 and E780N OverNight. In the enlarged cabin E780N OverNight two people can sleep lying down freely. Pilot seat E780N OverNight has an extra rear soft seat for two people. Cabin E780N OverNight has a closed space for a biotoilet.(see fig.D)

More details of complete set for E780 and E780N you can see in the table below.

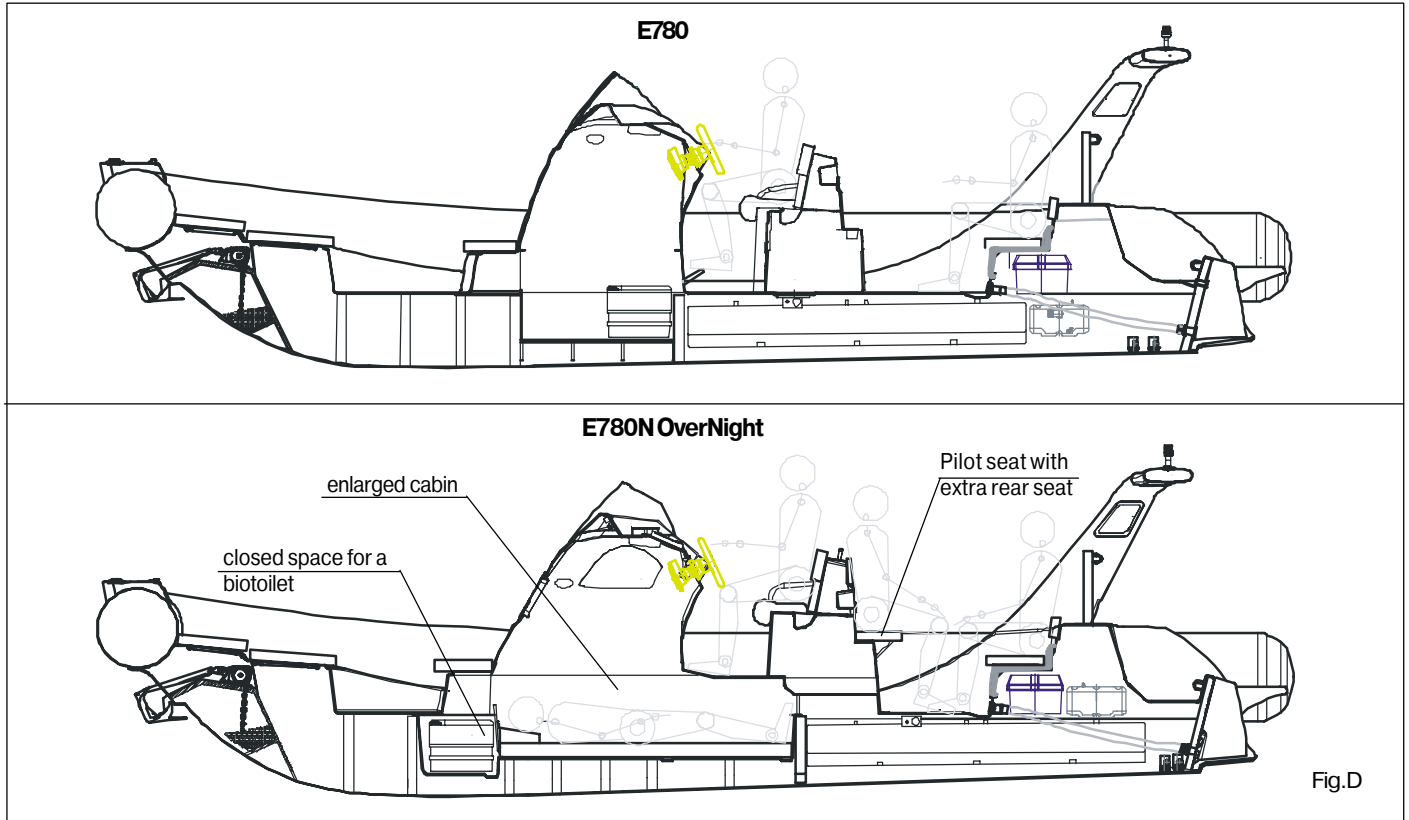
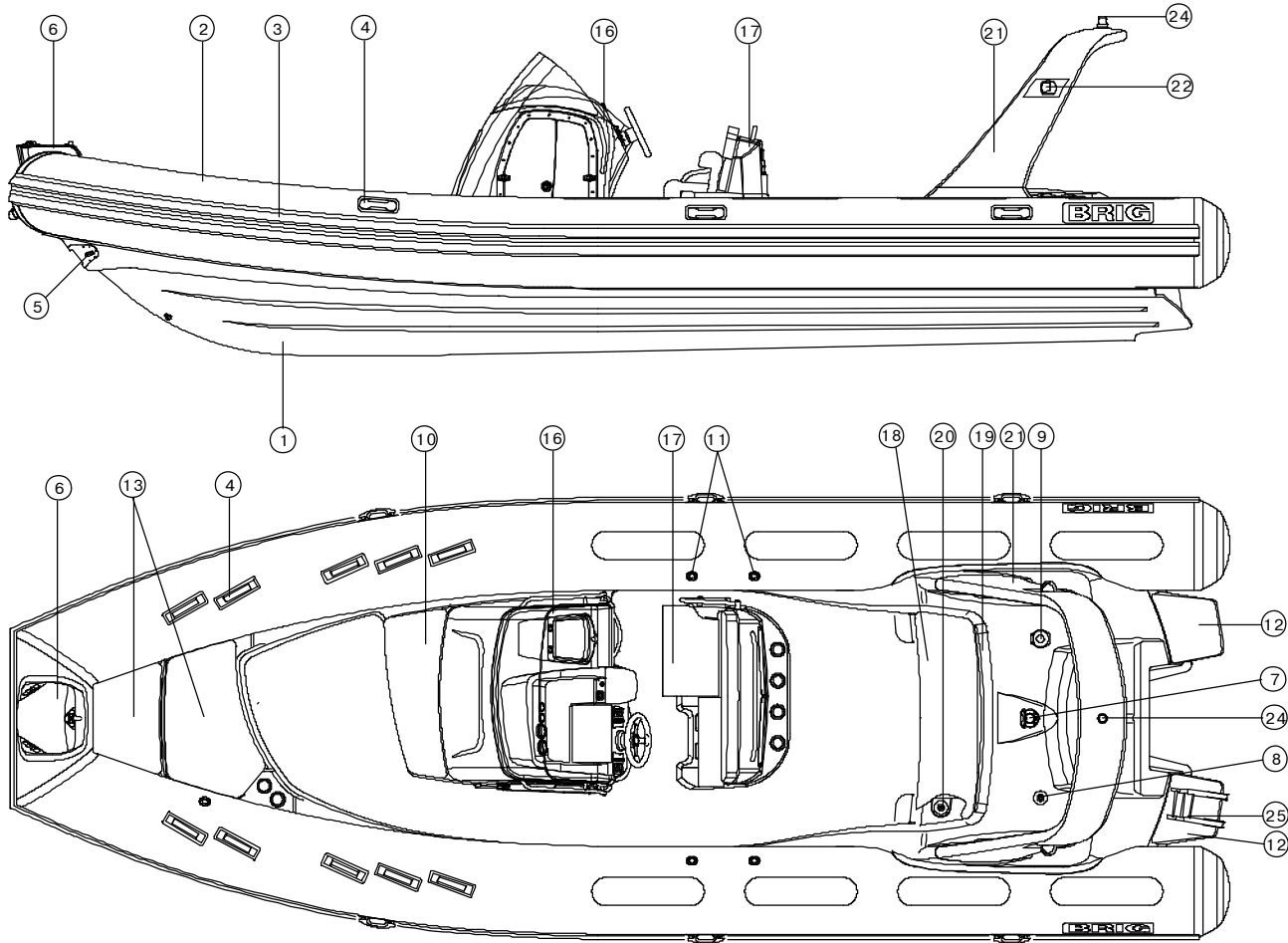


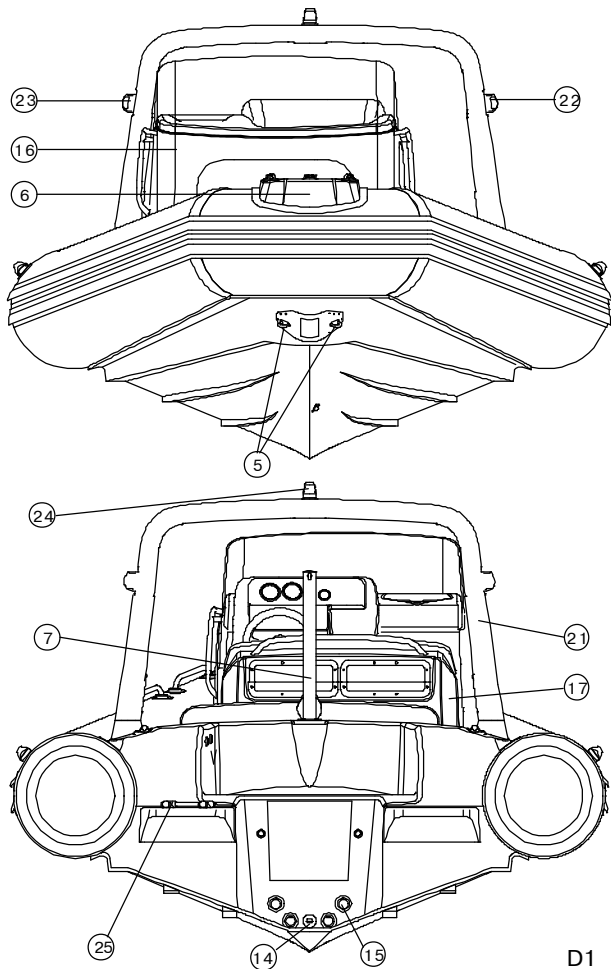
Fig.D

In the table below is shown the maximum possible complete set, which may differ from your boat.

| | | E780 | E780N |
|-------------------------------------|--|-------------|--------------|
| 1 | Inflatable boat | + | + |
| 2 | Foot pump | + | + |
| 3 | Paddle | + | + |
| 4 | Set of spare parts and repair kit | + | + |
| 5 | Bag | + | + |
| 6 | Owner's manual | + | + |
| 7 | Valve cap pressure gauge | + | + |
| 8 | Steering console | + | + |
| Steering console equipments: | | | |
| 9 | Hydraulic steering system | + | + |
| 10 | Steering wheel | + | + |
| 11 | Fuel level clock | + | + |
| 12 | Electrical switches with fuses | + | + |
| 13 | Socket 12V with fuse | + | + |
| 14 | Speedometer | + | + |
| 15 | Tachometer | + | + |
| 16 | Electric horn | + | + |
| 17 | Driver seat | + | - |
| 18 | Driver seat with extra rear soft seats | - | + |
| 19 | Polyester arch with navigation lights | + | + |
| 20 | Stern soft seat with backrest | + | + |
| 21 | Front step-plate | + | + |
| 22 | Fuel system with fuel tank 340 litres | + | + |
| 23 | Drain system with automatic bilge pumps | + | + |
| 24 | Anchor with electrical windlass | + | + |

| | | E780 | E780N |
|----|--|-------------|--------------|
| | Shower kit : | | |
| 25 | Water tank (45 litres) | + | + |
| 26 | Shower handset | + | + |
| 27 | Shower pump | + | + |
| 28 | Removable sundeck and table | + | + |
| 29 | Soft cushions of the cabin | -- | + |
| 30 | Front locker removable cushion | + | + |
| 31 | Rear platforms | + | + |
| 32 | Foldable stainless steel ladder | + | + |
| 33 | Auxiliary motor bracket | + | + |
| 34 | Ski mast | + | + |
| 35 | Overall cover | + | + |
| 36 | Cover for steering console and seat | + | + |
| 37 | Collapsible sun-top | + | + |
| 38 | Battery container | + | + |
| 39 | SeaDek set | + | + |





D1

BOAT DESIGN.

The boat series "EAGLE" E780 consists of the next main components (Fig. D1):

- polyester hull (1);
- reinforced buoyancy tube (2);
- steering console (16);
- composed driver seat/bolster (17);
- polyester arc (21).

●DESCRIPTION:

- 1 — Polyester hull.
- 2 — Reinforced buoyancy tube.
- 3 — Doubled rubbing strake.
- 4 — Safety handle.
- 5 — Towing bow eyes (hull) (2 pcs.).
- 6 — Bow step-plate with antiskid layer.
- 7 — Mast for towing skier.
- 8 — Neck for fuel fill.
- 9 — Box with cap for shower handset.
- 10 — Steering console seat.
- 11 — Air fill valve (5 pcs.).
- 12 — Stern antiskid platforms.
- 13 — Front locker removable cushions.
- 14 — Drain plug.
- 15 — Cockpit drain system socket (4 pcs.).
- 16 — Steering console.
- 17 — Composed driver seat/bolster
- 18 — Stern-part seat.
- 19 — Soft back of stern-part seat.
- 20 — Neck for water fill.
- 21 — Polyester arc.
- 22 — Port running light (red).
- 23 — Starboard running light (green).
- 24 — Anchor light (white).
- 25 — Foldable stainless steel ladder.

●POLYESTER HULL.

The boat hull has "deep-V" shaped bottom with four longitudinal steps. The upper deck has a special moulded antiskid coating. There are five specified sections (Fig. D2):

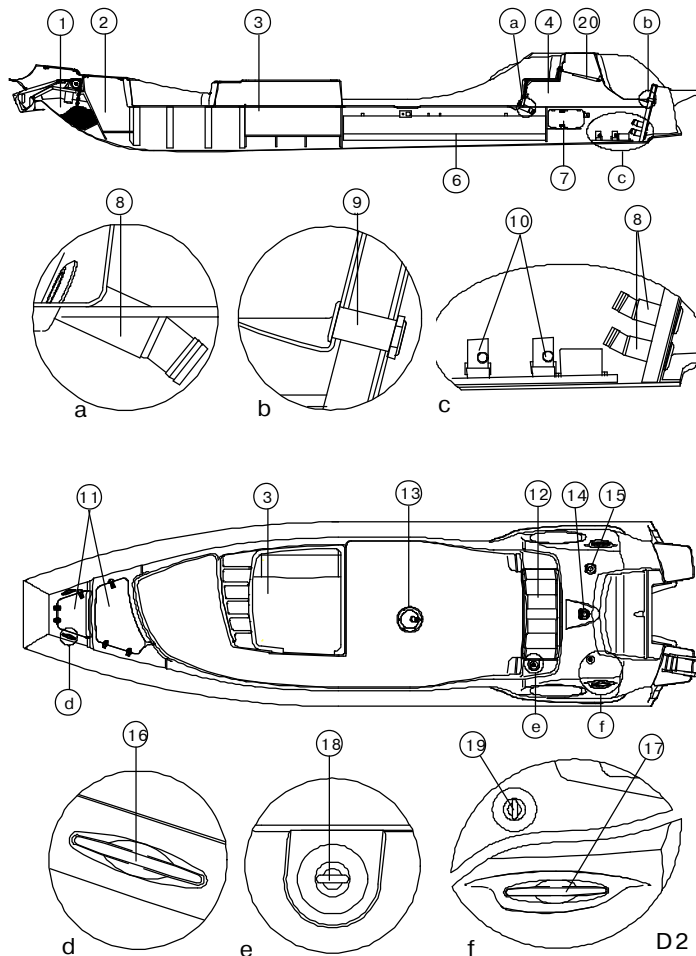
- bow anchor locker (1) is intended for arrangement of anchor system and anchor chain/rope;
- bow locker (2) is intended for baggage arrangement;
- compartment in the interior part of steering console (3);
- stern compartment (4).

The bow lockers and stern compartment has a direct access by hinge out the access doors (respectively 11 and 12 positions).

Onto the access doors of the bow lockers there are a removable soft cushions (13, Fig. D1). Onto the stern compartment door there are soft seat (18, Fig. D1) with soft back (19, Fig. D1).

The boat hull is arranged with the following components:

- two bow towing eyes (5, Fig. D1);
- two bow cleats (16, Fig. D2d);
- two stern cleats (17, Fig. D2f);
- fuel tank (6);
- water tank (7);
- cockpit drain system sockets (8, Fig. D2a, D2c);
- drain out of motor recess (9, Fig. D2b);
- drain automatic bilge pumps (10, Fig. D2c);
- outer neck for fuel fill (19, Fig. D2f);
- neck for water fill (18, Fig. D2e);
- inspection hatch (13);
- mast for towing skier (14);
- box with cap for shower handset (15);
- foldable stainless steel ladder (25, Fig. D1);
- lifter of stern compartment door seat (20).



There is also three-position battery disconnecter located in the stern compartment.

The fore part of the cockpit may be simply converted into the sundeck by means of false deck and soft cushions.

● REINFORCED BUOYANCY TUBE.

The boat buoyancy tube has U-shaped form. The tube is separated by means of inner elastic partitions into five chambers of a similar volume, each being provided with an air fill valve.

The air fill valve is intended for:

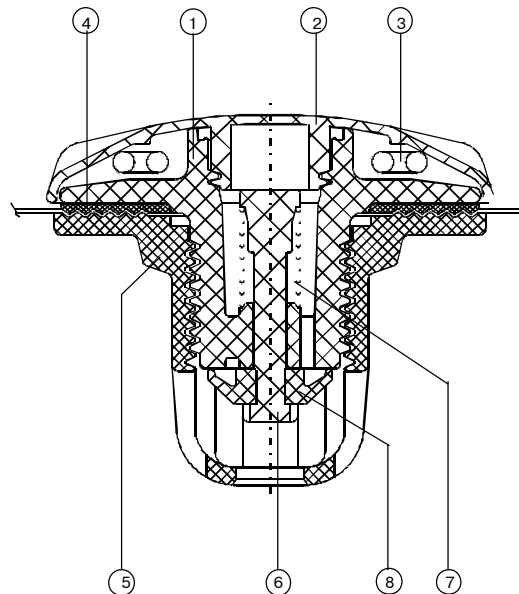
- filling the compartment with air from a standard pump or filling system and maintaining pressure in the tube for prolonged time,
- adjustable drop of pressure in compartment.

The air fill valve is designed as a tab-type non-return valve and consists of the following components (Fig. D3):

- housing (1);
- cup (2) with strap (3);
- washer with gasket (4);
- nut (5);
- spindle (6) with spring (7) and cup diaphragm (8).

Also there are the following elements fitted on the tube (Fig. D1):

- doubled rubbing strake (3, Fig.D1);
- safety handles (4, Fig.D1);
- bow step-plate with a special moulded antiskid coating (6, Fig.D1).



D3

●POLYESTER ARC.

Polyester arc (21, Fig.D1) is located in the stern part of the boat.

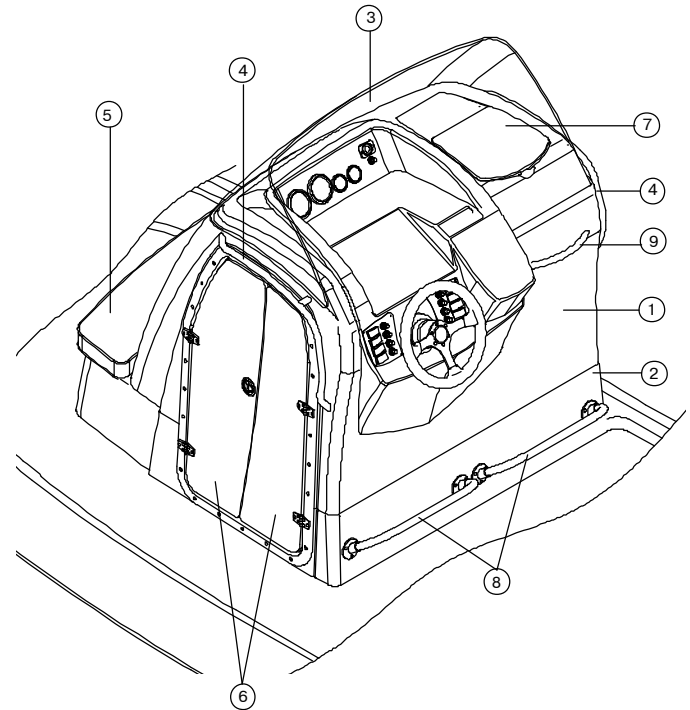
Arc is equipped with anchor light (white, 24) and running lights:

port (red, 22) and starboard (green, 23), (Fig. D1).

●POLYESTER STEERING CONSOLE.

The console consists of the following components (Fig. D4):

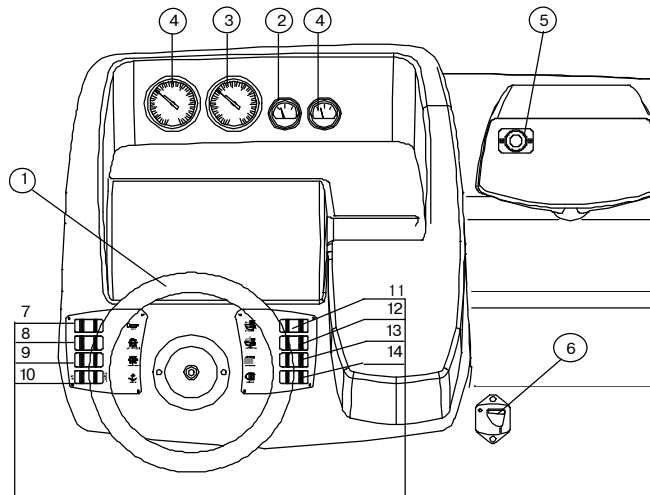
- console body (1) is installed onto the console base (2), which is built-in the boat deck;
- windscreen (3);
- stainless steel railing (left and right) (4);
- front soft seat (5);
- soft seat-back;
- doors with lock for access the interior space of the console (6).
- console recess with glass cap (7);
- two stainless steel bearings for feet (8);
- stainless steel handrail (9);
- electric horn (on the right side of the console).




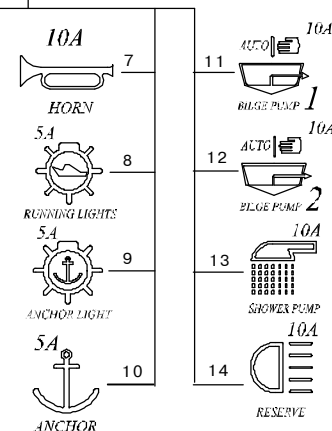
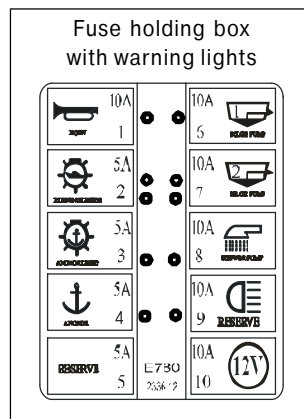
Console equipment (Fig. D5):

D4

- hydraulic steering system;
- steering wheel (1);
- fuel level clock (2);
- speedometer (3);
- additional equipment (4) (tachometer or multi-purpose meter, trimmer, voltmeter, clock);
- socket 12V with fuse (5).
- electrical circuit breaker (for electrical windlass) (6) (can be installed inside of the console).
- fuse holding box with warning lights(see D5) (inside of the steering console)
- switches:
 - horn switch (7);
 - running lights and meter lamp switch (8);
 - anchor light switch (9);
 - anchor windlass "up" and "down" switch (10);
 - bilge pump 1 switch (11);
 - bilge pump 2 switch (12);
 - shower pump switch (13);
 - reserve switch (14).



| | |
|---|--|
|  | <p>Always check the fuse. Burning red LED display on the fuse box warns of faulty fuse</p> |
| | <p>Always keep a spare set the fuse in an easily-accessible location.</p> |

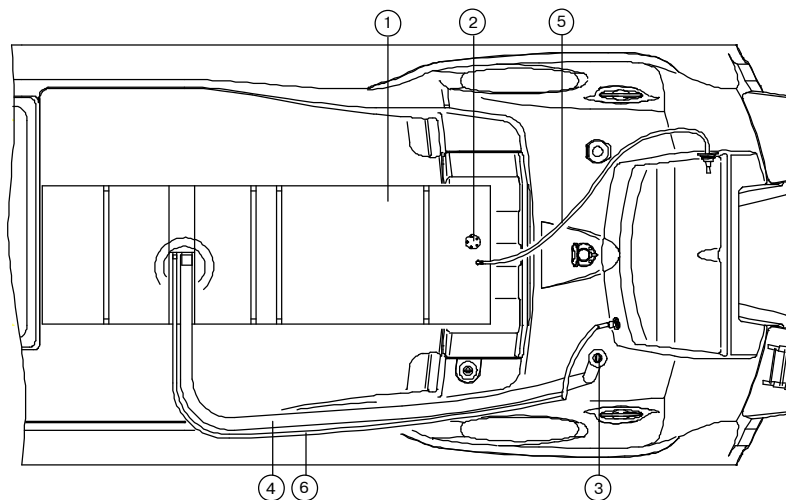


D5

● FUEL SYSTEM.

Fuel system consists of the following components (Fig. D6):

- built-in fuel tank 340L (90gal) (1);
- electric fuel gauge (2);
- outer neck for fuel fill (3);
- fuel hose (from outer neck for fuel fill to fuel tank) (4);
- fuel hose (from fuel tank to outboard motor) (5);
- fuel venting hose (6).



D6



Pre-filter and fuel valve must be installed by authorized representative specialists only.

Do not modify fuel system. Any modification, repair and planned maintenance of the fuel system may be made by authorized representative specialists only.

Check that there are no leaks in the fuel systems

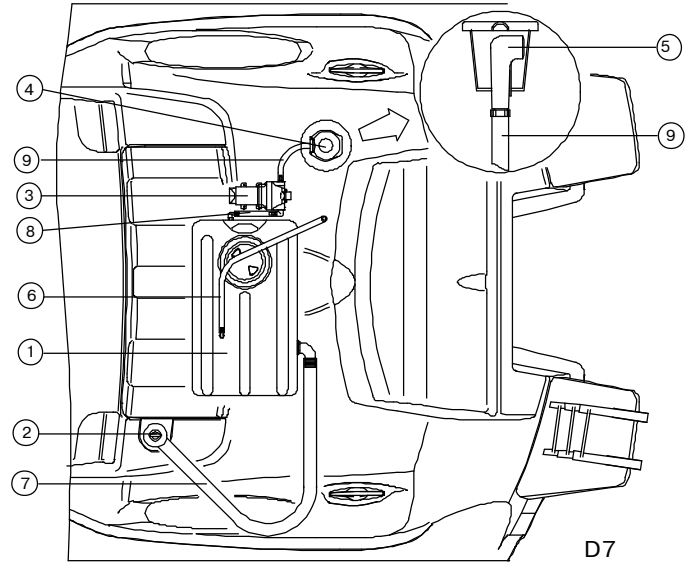


Do not smoke when refueling. Stop the engine and switch off any electric equipments before refueling.

●SHOWER SYSTEM.

Shower system includes the next components (Fig. D7):

- water tank 45L (12gal) (1);
- neck for water fill (2);
- shower pump (3);
- box for shower handset (4);
- shower handset with push button control and shower hose (5);
- hose for venting water tank (6);
- water hose (from neck for water fill to tank) (7);
- water hose (from water tank to shower pump) (8);
- shower hose (from shower pump to shower handset) (9).



It is dangerous to pretend to be an expert. This may cause damages. Refer to expert and authorized specialists for all types of maintenance and repair.

● DRAIN SYSTEM.

Drain system, (Fig. D8), consists from two independent systems:

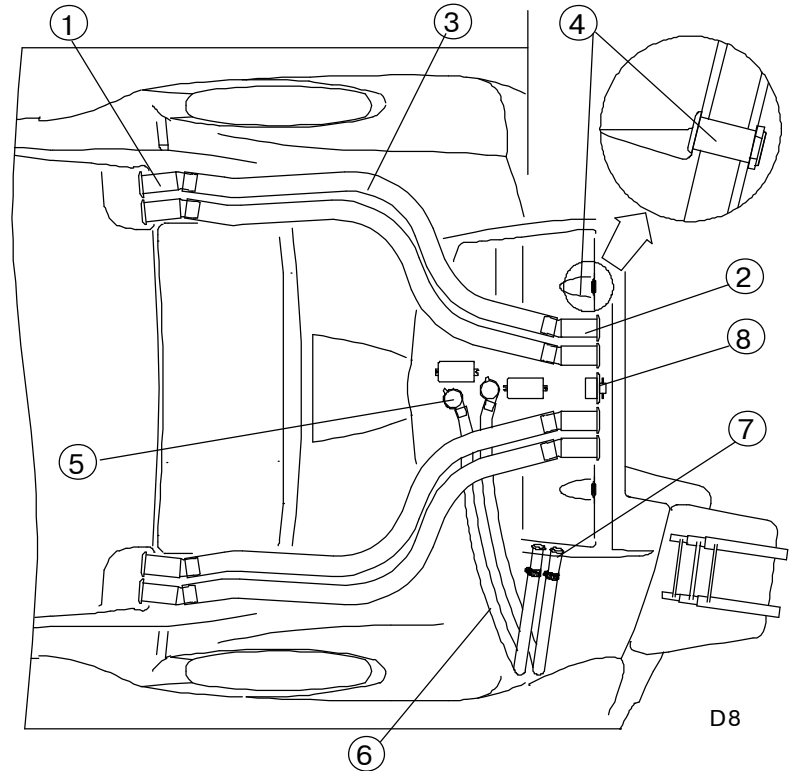
- cockpit and motor recess drain system;
- hull drain system.

COCKPIT AND MOTOR RECESS DRAIN SYSTEM includes:

- four cockpit drain sockets (1);
- four stern drain sockets with flexible diaphragms (2);
- four drain hoses (3);
- drain socket thru-hull out of motor recess (4);

HULL DRAIN SYSTEM includes:

- two automatic bilge pumps (5);
- two drain hoses (6);
- two drain sockets installed in the motor recess (7);
- drain plug (8) **MUST BE TIGHTLY CLOSED** WHEN BOAT ON WATER.



ATTENTION

Periodically clean out all the drain openings and bilge pumps from dirt.



WARNING

Always the cockpit drain sockets must be open during navigation. Do not obstruct cockpit drain sockets at any time. Do not dispose bulky objects in front of the cockpit drain sockets.

Before navigation check the drain sockets. DRAIN PLUG (8) (Fig. D8) **MUST BE TIGHTLY CLOSED** WHEN BOAT ON WATER.

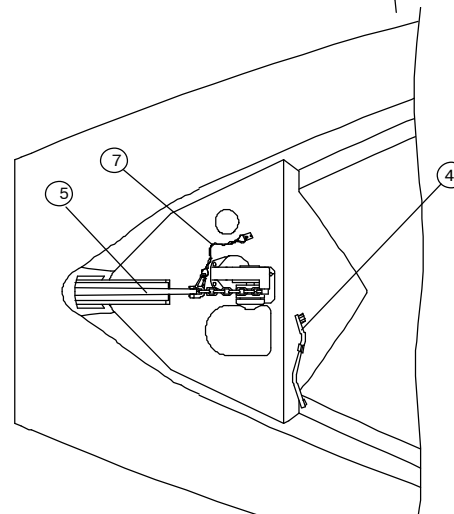
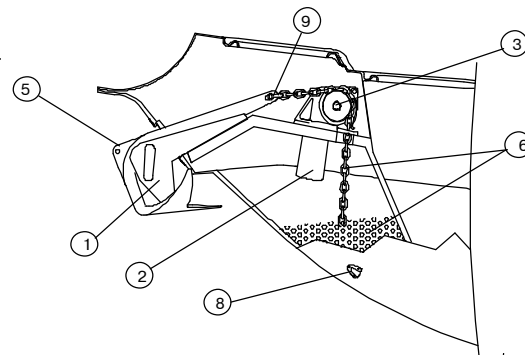
Never locate heavy objects on the drain hoses. It will be cause of bucking, distortions and damages.

●ANCHOR SYSTEM.

Anchor system (if included to the complete set) is located inside the bow anchor locker (Fig. D9).

Anchor system includes the next components:

- stemhead roller (1);
- electrical anchor windlass (2);
- clutch nut (3)
- handle to engage and disengage the windlass (4);
- anchor (5);
- anchor chain (25m length) (6);
- safety pin (7);
- drain opening (8);
- special anchor shackle (9);
- windlass circuit breaker (see above Fig D5);
- anchor windlass "up" and "down" switch (see above Fig D5);
- windlass control box (installed in the interior space of the steering console).



D9



ATTENTION

Before beginning to operate with anchor system, carefully study the owner's manual for electric windlass.



WARNING

Periodically check that the special anchor shackle(9) are tightened correctly.

●HOW TO OPERATE WITH ANCHOR SYSTEM.

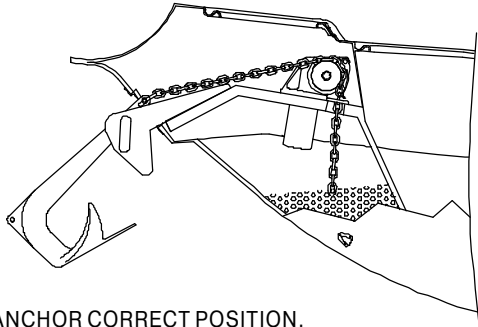
Before beginning to operate with anchor system, carefully study the owner's manual for electric windlass DORADO (Lofran's windlasses), if it is installed on your boat. Please, respect all requests and follow all instructions stated in above indicated manual.

If you need to drop/cast the anchor by electric motor:

1. Disconnect main battery disconnecter.
2. Open the bow anchor hatch. By means of handle (4)(Fig. D9) close the clutch nut (3).
3. Disengage safety pin (7) from chain.
4. Switch on windlass circuit breaker (6)(Fig. D5) and then main battery disconnecter.
5. By means of anchor windlass "up" and "down" switch (10)(Fig. D5) drop/cast the anchor.
6. Switch off the main battery disconnecter. Close the bow anchor hatch.

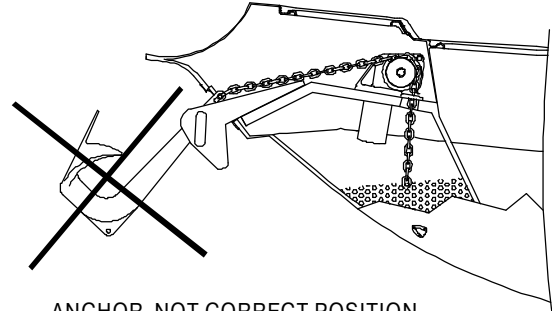
If you need to stow the anchor by electric motor:

1. Disconnect main battery disconnecter.
2. Open the bow anchor hatch. By means of handle (4)(Fig. D9) close the clutch nut (3).
3. Check that the safety pin (7) is detached from chain.
4. Switch on windlass circuit breaker (6)(Fig. D5) and then main battery disconnecter.
5. By means of anchor windlass "up" and "down" switch (10)(Fig. D5) begin to stow the anchor.
6. When the anchor will begin to crawl on a roller, stop windlass electric motor in order to see that the anchor is not swinging and have occupied correct position. CHECK, THAT THE ANCHOR OCCUPIED CORRECT POSITION (Fig. D10).
7. Continue to stow the anchor, until it will be fixed on a stemhead roller.
8. Switch off windlass circuit breaker (6)(Fig. D5) and then main battery disconnecter.
9. Hook safety pin (7)(Fig. D9) to chain. Close the bow anchor hatch.






ANCHOR CORRECT POSITION.
CONTINUE TO STOW THE ANCHOR.

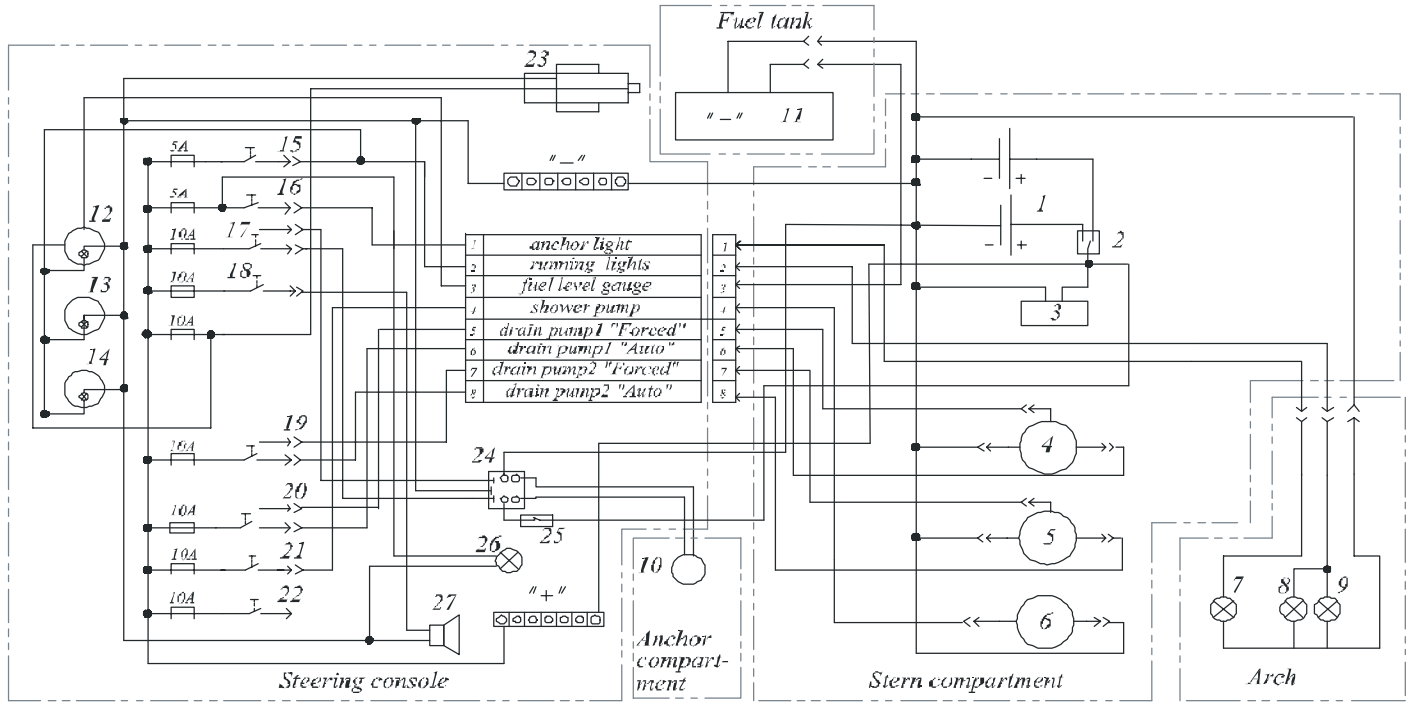
D10



ANCHOR NOT CORRECT POSITION.
RESTART TO STOW THE ANCHOR.

| | |
|---|--|
|  WARNING | <p>CHECK, THAT THE ANCHOR HAVE OCCUPIED CORRECT POSITION AND ONLY AFTER THAT CONTINUE TO STOW THE ANCHOR.</p> |
| | <p>Safety pin must always been hooked to the chair when the windlass is not in use.</p> |
| | <p>Do not use the windlass for different purposes it was designed for.</p> |
|  WARNING | <p>Always turn off the windlass circuit breaker when the windlass is not in use to prevent any accidental engagement.</p> |
| | <p>Always keep hands and feet off an operating windlass. If the chain gets blocked, turn the windlass off and try to free the chain extremely carefully.</p> |
|  ATTENTION | <p>Check that the chain was not twisted in the area between the anchor and the windlass. Untwist it, if necessary.</p> |
| | <p>Periodically clean out the drain opening (8)(Fig.D9) from dirt.</p> |

●WIRING DIAGRAM E780.



D11

DESCRIPTION:

- 1 — Battery (2 pcs.) (is not included to the complete set).
- 2 — Three-position battery disconnecter.
- 3 — Outboard motor (is not included to the complete set).
- 4 — Bilge pump 1.
- 5 — Bilge pump 2.
- 6 — Shower pump.
- 7 — Navigation light (white).
- 8 — Port light (red).
- 9 — Starboard light (green).
- 10 — Windlass.
- 11 — Fuel level gauge.
- 12 — Fuel level clock
- 13 — Tachometer.
- 14 — Speedometer.
- 15 — Switch with automatic circuit breaker — meter lamp and running lights switch.
- 16 — Switch with automatic circuit breaker — anchor light (white).
- 17 — Windlass circuit breaker.
- 18 — Switch with automatic circuit breaker — electric horn.
- 19 — Switch with automatic circuit breaker — bilge pump 1 "FORCED" / "AUTO".
- 20 — Switch with automatic circuit breaker — bilge pump 2 "FORCED" / "AUTO"
- 21 — Switch with automatic circuit breaker — shower pump
- 22 — Reserve switch with automatic circuit breaker
- 23 — Socket 12V
- 24 — Switch — anchor windlass "UP" / "DOWN"
- 25 — Circuit breaker — anchor windlass.
- 26 — Lamp
- 27 — Electric horn



WARNING

Do not modify electrics of the boat.
Any modification, repair and planned maintenance may be made by authorized representative specialists only.

Do not touch the electrical equipment with wet hands.



ATTENTION

When leaving the boat, remember to disconnect the batteries.

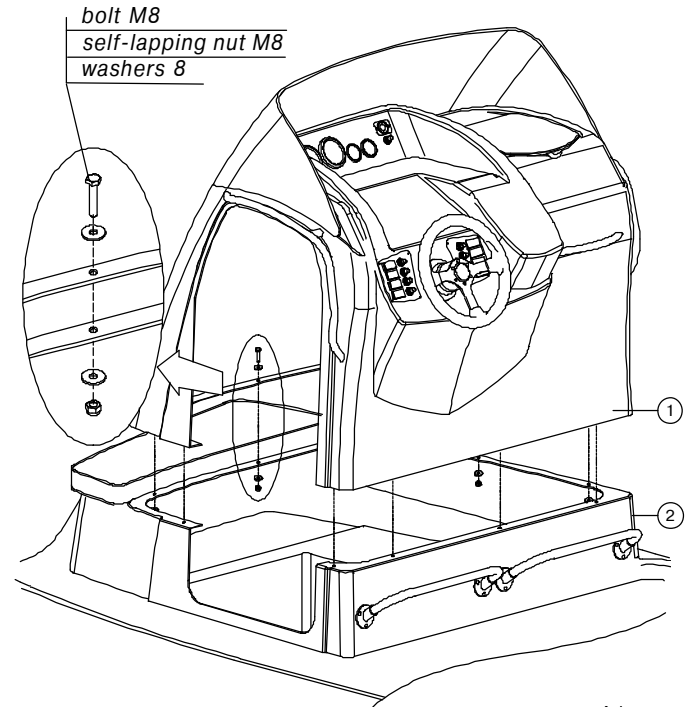
PREPARATION FOR EXPLOITATION.

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

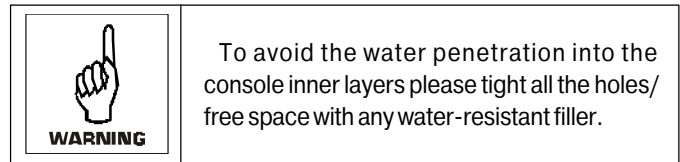
- unfold the inflatable tube;
- mount the outboard motor on the transom in accordance with its own installation instruction (manual of your outboard engine).

● HOW TO INSTALL STEERING CONSOLE.

- put the steering console (1) onto the console base (2) with sealant, (Fig. A1);
- fix the steering console with bolts M8 with washers from the steering console complete set;
- connect electric cable harness of outboard motor with corresponding console wires in accordance with **WIRING DIAGRAM**, (Fig. D10);
- install the remote control cable. Follow the instructions manual provided with the remote control box;
- install throttle cable (motor side). Follow the instructions manual provided with the outboard motor;
- double-check that the remote control cables (i.e., the throttle cable and shift cable) have been connected correctly. For checking follow the instructions manual provided with the outboard motor and remote control box;
- install the hydraulic steering system hoses. Follow the instructions manual, provided with the hydraulic steering system set.

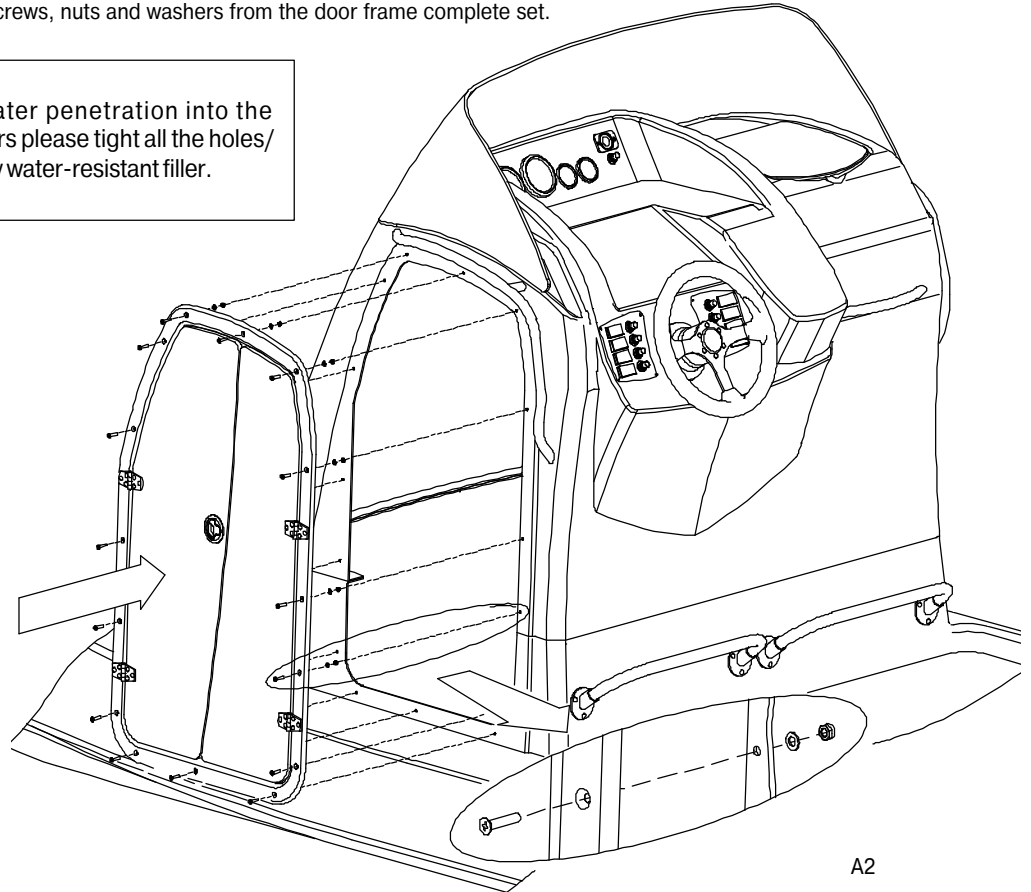
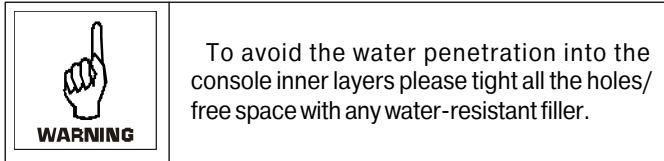


A1



● HOW TO INSTALL DOORS INTO THE STEERING CONSOLE .

- please, insert a door frame with doors into a doorway in the steering console body (Fig. A2);
- fix the door frame with the help of screws, nuts and washers from the door frame complete set.

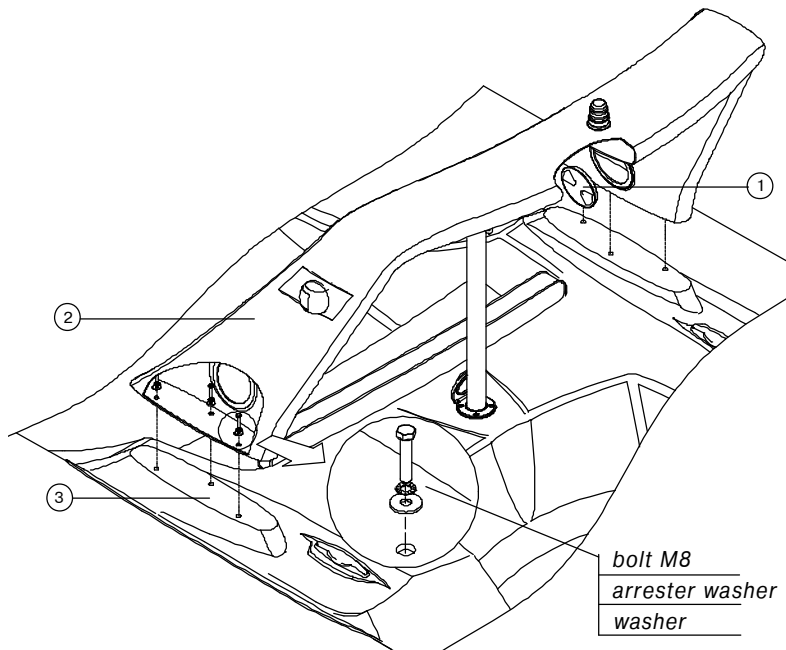


A2

●HOW TO INSTALL POLYESTER ARC .

In order to install the polyester arc, perform the next operations (Fig.A3):

- remove round hatch covers (1) from the lower part of the arc;
- insert arc cable into the hole of arc bracket (starboard);
- mount the arc (2) onto the arc bearings (3), (Fig. A3) and fix the arc with the help of the bolts M8 and washers from the arc installation kit;
- tighten all the bolts;
- close round hatch covers of the lower part of the arc.



A3



WARNING

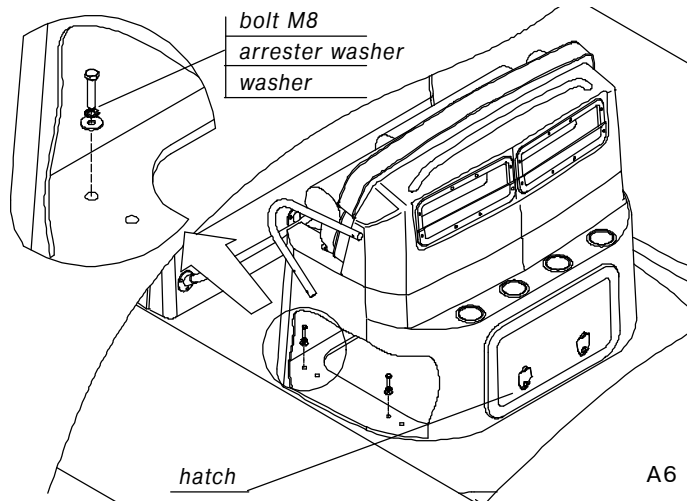
The polyester arc is designed to withstand the stresses of navigation and act as a support for the lights and horn. Do not use it inappropriately to rest your weight on it.

Do not begin navigation without checking that the bolts of the polyester arc are tightened correctly.

● MOUNTING OF COMPOSED DRIVER SEAT/BOLSTER.

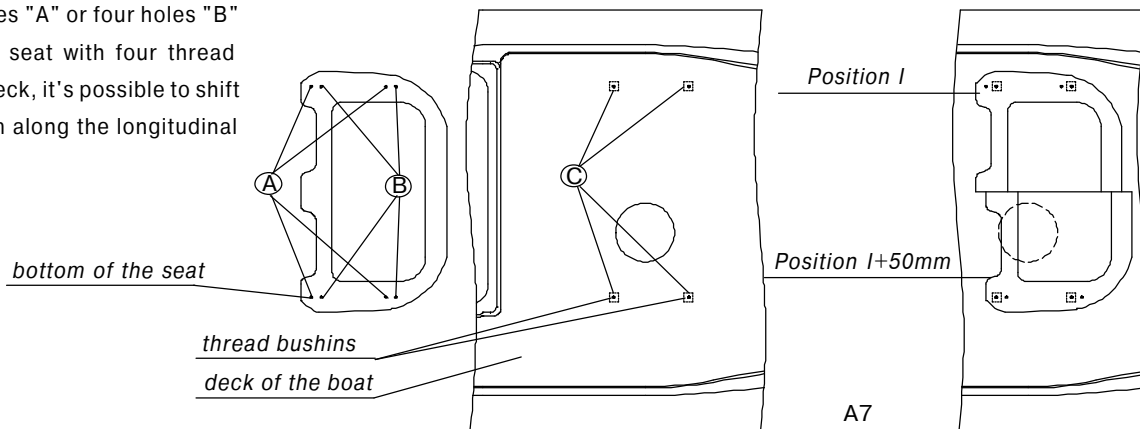
In order to install composed driver seat/bolster, please perform the next operations (Fig. A6):

- open the hatch on the back side of the seat;
- align the holes in the bottom of the seat with the thread bushings in the deck and fix the seat with the help of bolts M8 and washers from the complete set of the composed driver seat/bolster;
- tighten all the bolts;
- close the hatch.



VARIATIONS OF MOUNTING OF COMPOSED DRIVER SEAT/BOLSTER (Fig.A7).

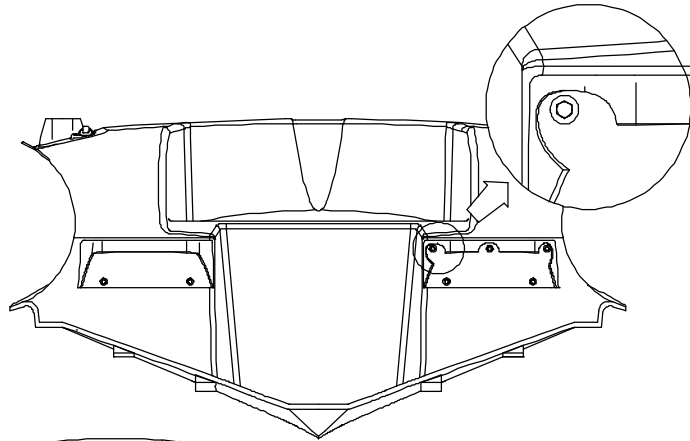
While aligning four holes "A" or four holes "B" in the bottom of the seat with four thread bushings "C" in the deck, it's possible to shift the seat on the 50mm along the longitudinal axis of the boat.



●HOW TO INSTALL STERN PLATFORMS.

In order to install stern antiskid platforms (Fig. A8), please impose left and right stern platforms to the stern surface of the boat as shown (Fig. A8a).

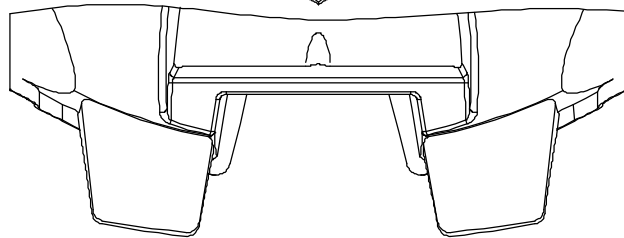
Fix stern platforms with the help of bolts M8, nuts M8, washers 8 (Fig. A8b).



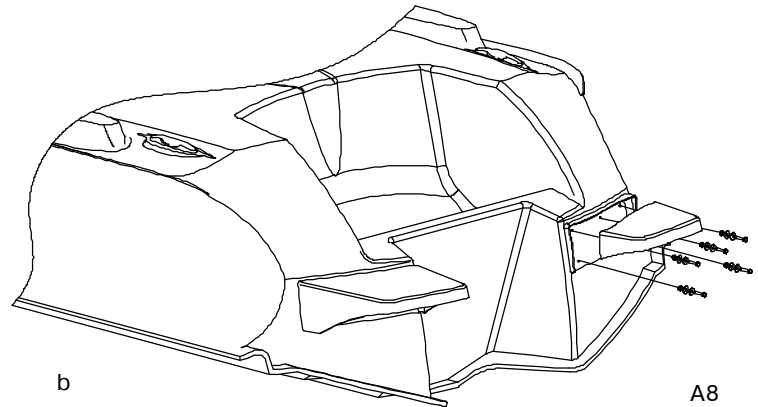
appr. 7...12mm



To avoid the water penetration into the hull, use water-resistant filler for filling all the holes/free space.



a



b

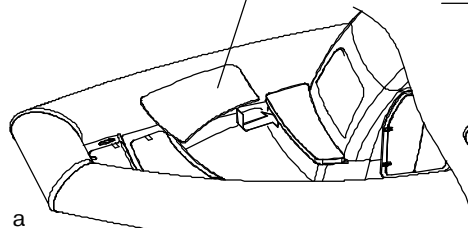
A8

●HOW TO INSTALL SUNDECK.

Sundeck set includes two false deck boards and two soft cushions. One of the boards (the small one) may be used as an upper part of the demountable table. In order to install the sundeck (Fig. A8), please do the next:

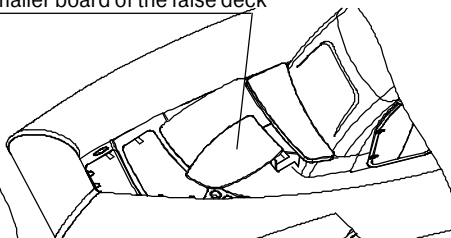
- Insert the bigger board of the false deck into the special groove between the front seat of the steering console and the console base part (Fig. A8a). Aline and insert the opposite part of the board into the special drop in the front wall of the cockpit (Fig. A8b).
- In the same way, please install the second (smaller) board near the big one (Fig. A8c, A8d).
- Further, please place two soft cushions onto the false deck and fasten them with the help of press-buttons (Fig. A9).

bigger board of the false deck



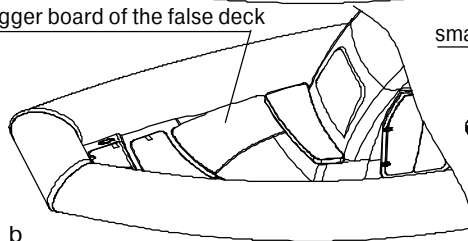
a

smaller board of the false deck



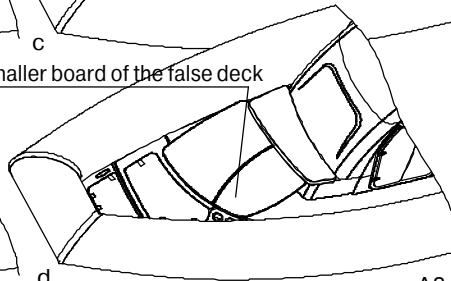
c

bigger board of the false deck



b

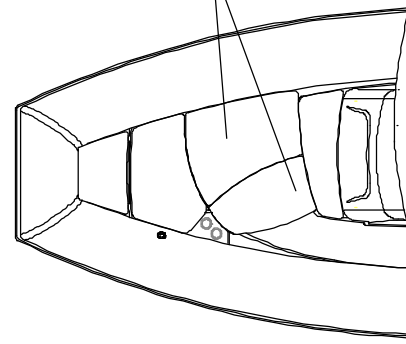
smaller board of the false deck



d

A8

Two soft cushions



A9



ATTENTION

Always check fixation of the sundeck cushions.

Care & Maintenance of your Sunbrella® Fabric

If soft seats and cushions of your BRIG boat are made from *Sunbrella®* fabric, please read this instruction for the proper care of fabric.

Sunbrella® fabrics are made from solution-dyed acrylic fibres specifically designed for outdoor use. These air-permeable fabrics are chemically treated during manufacture. The treated fabric is more resistant to water, soiling (watermarks, dirt resulting from pollution or oily substances) and to the formation of mildew.

Over time, the effectiveness of the treatment diminishes. We therefore recommend that you clean and re-treat your fabric regularly in order to keep it in excellent condition and to make it last much longer.

Cleaning

- 1) When dry, brush the fabric (using a clothes brush or similar) in order to remove as much dirt as possible.
- 2) Spray the fabric with a jet of water, to moisten it.
- 3) Prepare a cleaning solution as follows:
 - For a standard clean: add 100ml (or more) of mild soap to 4 litres of hot water (maximum 40°C)
 - For the best possible result: use **303 Fabric Cleaner**
- 4) Brush the fabric using a soft brush (clothes brush or similar) and leave the solution to act for a few seconds.
 - **To remove marks:** use the cleaner on its own, or just slightly diluted with water. Spray onto the mark until the fabric is wet. Work the product in using a soft brush. Wipe away the mark and any excess cleaner with a wet cloth.
- 5) Rinse thoroughly with clean water.
- 6) Leave the fabric to dry in the open air.

Note: to avoid any deterioration of the fabric, we recommend you never expose it to sources of heat (e.g. hair dryers) or never use the following when cleaning: detergent, hot water (above 40°C), high-pressure cleaners.

Protection

303 High Tech Fabric Guard restores your fabric's original water-resistant and dirt-repellent properties. It stops leaks, prevents the formation of marks and mildew and protects the fabric against the harmful effects of UV rays.

Re-treating with **303 High Tech Fabric Guard** is easy, quick and produces long-lasting results.

- Use only on completely dry, new or recently cleaned fabric.
- Spray **303 High Tech Fabric Guard** until the fabric is moist. **Do not overspray.**
- Leave the fabric to dry completely before using it or putting it away.

If you have the time, give your fabric a second treatment. Leave it to dry completely in the open air between treatments.

Coverage: use 500 ml for every 7 to 10 square metres treated.

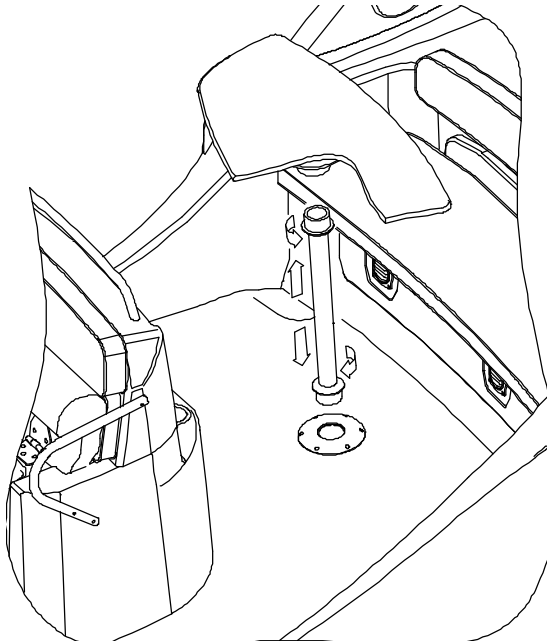
Note: the use of silicone-based waterproofing products is not recommended. They are not compatible and there is therefore a risk of marks appearing once exposed to the air. Waterproofing products designed for use with wood and brickwork are also not recommended.

Read the instructions and recommendations on the label before using **303 HighTech Fabric Guard** and **303 Fabric Cleaner**.

●HOW TO INSTALL A TABLE.

There are two special places in the fore and rear parts of the deck, intended for mounting the table. In order to install the table, please perform the next operations (Fig. A10):

- take off a cover of the basis of a table support in the fore or in the rear part of the deck;
- please, screw a leg of the table in a flange on the bottom face of a smaller false deck board;
- further, please, screw the leg with the table into the basis of the table support.



A10



The speed of the boat with installed the table can not exceed 7 km/h (4 knots)
Fold the table before the start boat is moving

●STORAGE BATTERY INSTALLATION.

In order to install the storage battery, perform next operations:

- open door of the stern compartment;
- install the storage battery into the battery container;
- connect the battery terminals with motor battery cord and battery disconnecter;
- please, check efficiency of the electric equipment.




Before installation your storage battery read the BATTERY MANUAL carefully and ensure that you have understood all the described procedures.


●INFLATION/DEFLATION OF THE BOAT TUBE.

The inflatable tube of the boat has five independent air-tight chambers. Before inflation it's necessary to set all valves in operating condition. In order to switch valve in operating condition, please press spindle 6 (Fig. D3) with your finger and rotate it clockwise until the spindle will be fixed. If this operation isn't possible, it means the valve already has been set in operating condition.

Fill the tube with air using the pump from the complete set. First fill two rear chambers, next two middle chambers. However, do not increase the pressure up to its operating value (the tube will be completely straightened). After that, please fill the fore chamber up to the rated pressure. **The rated pressure value is 0.2 bar (2.9 psi)**. Having completed filling, close the valve covers.

In order to discharge air from the tube chambers, open the valves (please press spindle 6 (Fig. D3) with your finger and rotate it anticlockwise until the spindle will be fixed).

| | |
|---|--|
|  WARNING | Do not use compressors and/or other types of inflating equipments not approved by the boat builder. |
| | Check the tube pressure before every navigation. |
| | The rated pressure value is 0.2 bar (2.9 psi). If the tube pressure more than nominal, deflate the tube slightly. Boat exploitation with board pressure more than nominal decreases boat service life. |

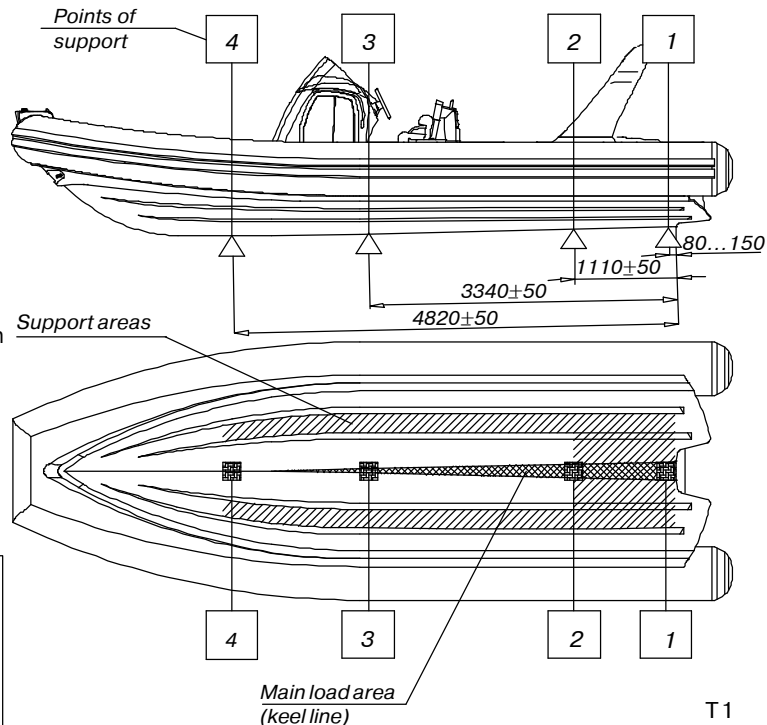
| | |
|---|--|
|  ATTENTION | Board air chambers are hermetical if they keep own form during 8 hours. In this case: <ul style="list-style-type: none">- primary pressure has to be nominal;- input valves openings have to be tightly closed by caps. |
|---|--|

BOAT TRANSPORTATION BY TRAILER.

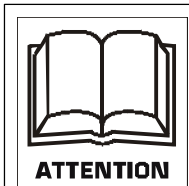
Installed on a trailer (or on keel-blocks for storage) the boat should be laying on all surface of the **Main loading area (keel line)** (see Fig. T1).

It is possible to install the boat on four reference points as minimum. Thereby the points of support (1), (2), (3), (4) must be an obligatory, and the any other points of support must be an additional.

Lateral roller supports can be used only with a view of prevention from tipping.



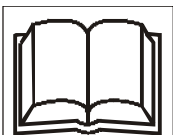
Maximum transportable mass:
2420 kg (cat. B)
1820 kg (kat. C)



In order to avoid the hull damage, install the boat on the stated areas only.

MAINTENANCE.

- Main conditions of long service life is right and careful servicing. Avoid excessive increasing of pressure in the board, especially from heating by the sun rays.
 - At the end of 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 gets to the boat surface it is necessary to wash the soiled place by soap water as soon as possible and dry.
 - Pay attention to the condition of bottom surfaces. If the cover is destroyed it is necessary to dry this element and restore the defend cover.
 - At the end of the season exploitation, 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 open and slightly pumped state at 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 and glue set for repair from the complete set.
- The own fulfilment of any complex repair associated with considerable damages to the board, partitions and seams is not recommended. In such cases, apply to your dealer.



ATTENTION





Storage of the boat with temperature variations from -30°C to +45°C may be allowed not longer than 1 month. In case the boat has been stored or transported at a temperature below 0°C, it must be kept at a temperature above +15°C at least for 1 hour before to be unpacked and unfolded.

For small repair boat tube use the coated fabric and glue set from the complete set.

OPERATING REGULATIONS.

Dear ownwr,

We thank your 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.

| | |
|--|--|
|  | <p>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.)</p> |
| | <p>IT IS FORBIDDEN to use an outboard motor of power exceeding the maximum allowable value</p> |
|  | <p>IT IS FORBIDDEN to bring the tube pressure up to the value exceeding the rated one(0.2 bar(2.9psi))</p> |
| | <p>IT IS STRICTLY FORBIDDEN to drag the boat across a rough surface.</p> |
| | <p>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.</p> |
|  | <p>Use the boat equipment and accessories only on their direct purpose to ensure reliable service.</p> |
| | <p>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 of the boat.</p> |
|  | <p>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.</p> |
| | <p>Take all possible precautions against penetration of fuel, oil or electrolyte from the storage battery into the inflatable boat. If it does happen wash thoroughly the fouled spots with water.</p> |



DANGER

You should be always sure that the number of people on board never exceeds that specified in the owner's manual or on the builder'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.**



DANGER

All passengers should be accommodated inside the boat. The occupied seats should not be left throughout the entire sailing time.



DANGER

All passengers should put on life-saving jackets.

CHILDREN and non-swimmers MUST WEAR A FLOATATION DEVICE AT ALL TIMES.

Always check that floatation devices for children are of the right size and that they are operational.



DANGER

The boat must be equipped with liferaft(s) to be stowed for the crew limit. If the liferaft is a rigid canister type, it shall be mounted in the cockpit, ready for use. If the liferaft is contained in a soft bag then it may be stowed in a compartment but shall be readily available for use.

Liferaft not supplied by the manufacturer and must be installed by owner.



DANGER

Arrange the cargo to be carried uniformly inside the boat, all items being reliably secured on the bottom of the boat.

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.



Despite the strong shell of the boat we recommend carefully handle and operate with sharp and pricking objects which you have on board . It concerns, for example, a knife blade, fish-hook point, etc.



Approaching to rocky shores, shoals, moles, etc. , please be careful to avoid damages of your boat. It is strictly prohibited to drag the boat across rough surfaces (shingle, rocks, concrete, etc.).

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



Besides, at regular intervals, please check air chambers pressure , 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.

● Towing



At towing the towing rope length should not be less at least 3 lengths of the boat.

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.



The rope have to be attached to both boats in a manner ensuring its immediately, single-motion release.

- **Damage to one of air chambers**

The inflatable boat is designed to provide an adequate stability in case of the complete damage to one of 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. Observe changes in stability. After that, immediately head for the nearest shore. To prevent penetration of water into the boat, pull the shell of the damaged air chambers upwards.

- **Mooring fast fastening**



Attach towing rope in the bow of the boat to the one of the frontal towing rings. Attach bow mooring ropes to the bow mooring cleats only. Attach rear mooring ropes or the rope of back anchor to the rear mooring cleats only.

- **Danger of currents and wind**



Before begin navigation on the boat, 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.), never leave the boat, if 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.

- **Handling under power**



Manoeuvrability above **40 knots (74 km/h)** is limited. Sudden turn may cause loss of control. Reduce speed before sharp turn, in either direction.



ATTENTION

Maximum propulsion power rating for the boat **220 kW (300 HP)**



WARNING

Do not operate your boat with an engine of rated power larger than that stated on the builder's plate in the boat.



ATTENTION

Do not operate this craft at negative propulsion unit trim settings (bow down) at high speed. Craft may lean over on side. Instability in turns may result. Use negative trim to accelerate to planing speed from displacement speed and at lower planing speeds in choppy water (applicable to craft equipped with propulsion unit power trim).



ATTENTION

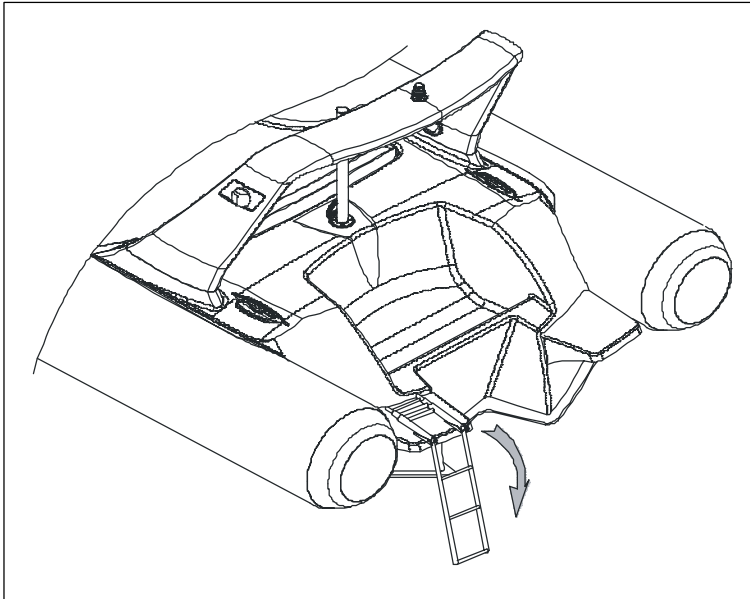
Do not operate at maximum speed while in congested high traffic waterways or in weather and sea conditions of reduced visibility high winds or large waves. Reduce speed and wake as a courtesy and as a safety consideration to yourself and others. Observe and obey speed limit and no wake zones



ATTENTION

Observe right-of-way as defined by Rules of the Road and required by COLREG.

Always be certain to have sufficient distance to stop or manoeuvre if required to avoid collisions.



REBOARDING MEANS.

Reboarding ladder mounted on the stern of the boat on the starboard side.

If you are in the water, and the ladder is folded, you can lay out it and return onboard.

The ladder can be fixed with Velcro. Just unclip it.



Be careful -
the rotating propeller on
the engine

The inflatable boat was delivered with the following equipment installed:

| | | |
|-----------------------------|---------------------|-----------|
| 1.Fuel tank with fuel hoses | Stamp and signature | Comments: |
|-----------------------------|---------------------|-----------|

| | | |
|-------------------|---------------------|-----------|
| 2.Electric system | Stamp and signature | Comments: |
|-------------------|---------------------|-----------|

| | | |
|-----------------|---------------------|-----------|
| 3.Drain system. | Stamp and signature | Comments: |
|-----------------|---------------------|-----------|

| | | |
|-----------------|---------------------|-----------|
| 4.Bilge pump(s) | Stamp and signature | Comments: |
|-----------------|---------------------|-----------|

| | | |
|--------------|---------------------|-----------|
| 5.Shower kit | Stamp and signature | Comments: |
|--------------|---------------------|-----------|

| | | |
|----------------------------|---------------------|-----------|
| 6.Electrical anchor system | Stamp and signature | Comments: |
|----------------------------|---------------------|-----------|

7. Steering system

Stamp and signature

Comments:

8. Engine power system

Stamp and signature

Comments:

9. Engine installation, test and completion of plants and fittings done by.

Stamp and signature

Comments:

Comments:

Comments:



MODEL

E780

SERIAL No.

UA-QRK

Date of manufacture

Quality inspection stamp