



Volume 2

MEDLINE 6.8

613749 -



CAREFULLY READ THIS MANUAL BEFORE PUTTING YOUR ZODIAC INTO SERVICE.

VOLUME 2

DESCRIPTION – TUBE PROPULSION SYSTEM INSTALLATION AND CIRCUITS

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DESCRIPTION - Technical Specifications

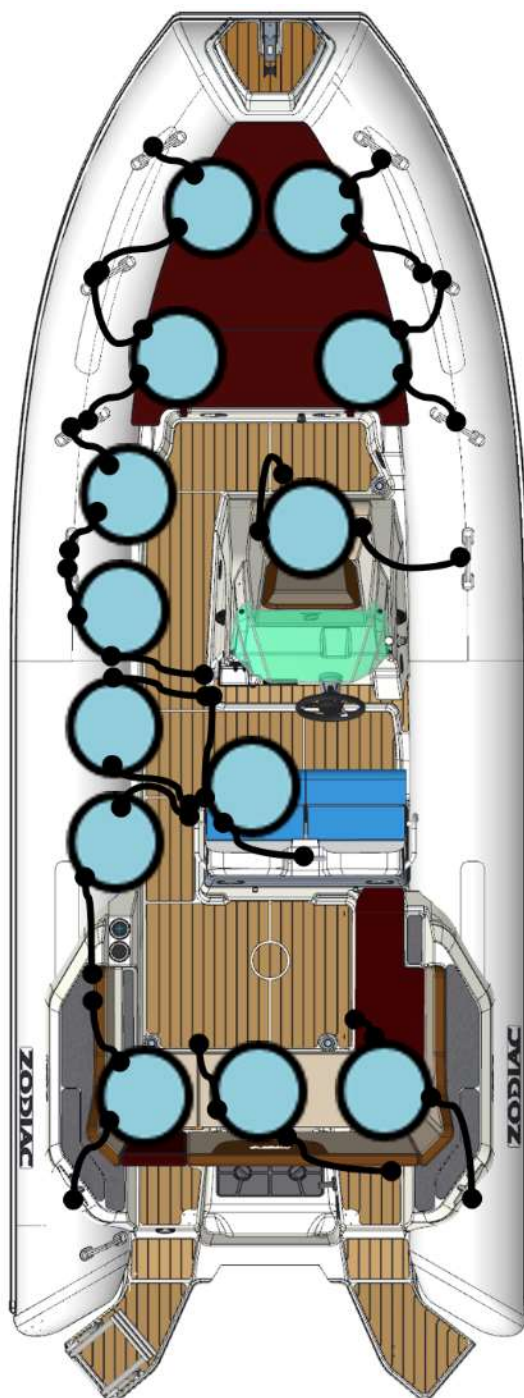
1. TECHNICAL SPECIFICATIONS

1.1. TECHNICAL DATA

Dimensions						
<i>Tolerance on dimensions +/- 3%</i>						
	m	6.95		m	0.6	
	ft	22' 10"		ft	1' 12"	
	m	6.34	Without the tube	a	m	6.61
	ft	20' 8"			ft	21' 8"
	m	2.54		b	m	1.80
	ft	8' 4"			ft	5' 11"
	m	1.54		c	m	2.5
	ft	5' 1"			ft	8' 2"
	HA (mm)	2130	Air draught max.			
	T (mm)	576	Draught max.			






Design category	
(Directive 2013/53/EU)	I

Capacity					
<i>Tolerance on weights +/- 5%</i>					
	(ISO)	B	I		
		NA	14		
	Maximum ISO 14946	Kg	NA	Maximum payload to ISO 14946 (1+2+3+4), data provided on the ICNN certificate. Maximum payload to ISO 14945 (1+2+3+5), data provided on the builder's plate. Passenger weight Personal effects List of all options offered Contents of consumable liquids tanks (fuel, drinking water, etc.) Engine weight Weights stated excluding accessories	
		lb.	NA		3571
	Maximum ISO 14945	Kg	NA		1740
		lb.	NA		3836
		Kg	920		
		lb.	2028		
Number of compartments		5			

**WARNING!**

DO NOT EXCEED THE MAXIMUM RECOMMENDED NUMBER OF PEOPLE. REGARDLESS OF THE NUMBER OF PEOPLE ONBOARD, THE TOTAL WEIGHT OF PEOPLE AND EQUIPMENT MUST NOT EXCEED THE MAXIMUM RECOMMENDED PAYLOAD. ALWAYS USE THE SEATS OR BENCHES PROVIDED.

DESCRIPTION - Technical Specifications

Propulsion				
	Shaft length		SINGLE ENGINE	
			XL	
	Min. recommended power	HP	150	
		KW	112	
	Max. recommended power	HP	200	
		KW	149	
	Max. permitted power	HP	250	
		KW	186	
	Max. engine weight	Kg	307	
		Lbs	677	

Recommended power levels match the optimum use of the boat's capacity under average load conditions.

NOTE: When the maximum permitted power exceeds the maximum recommended power, always use it with the most extreme care. This is only intended for use by experienced users operating their boat under very special conditions (carrying heavy payloads, etc.). Refer to Volume I of the Owner's Manual, "Boating Tips".



WARNING!

WHEN LOADING THE BOAT, NEVER EXCEED THE MAXIMUM RECOMMENDED PAYLOAD. ALWAYS LOAD THE BOAT WITH THE GREATEST CARE, MAKING SURE THAT LOADS ARE PROPERLY DISTRIBUTED TO MAINTAIN THE THEORETICAL TRIM (APPROXIMATELY AN EVEN KEEL). AVOID PLACING HEAVY LOADS HIGH UP.



WARNING!

**THE MAXIMUM PAYLOAD SHOWN ON THE BUILDER'S PLATE MUST NOT BE EXCEEDED.
WHEN THE BOAT IS FULLY LOADED, WE RECOMMEND:
OPERATING IT WITH CARE
PROPERLY DISTRIBUTING THE PAYLOAD
ENSURING PROPER BOAT TRIM.**

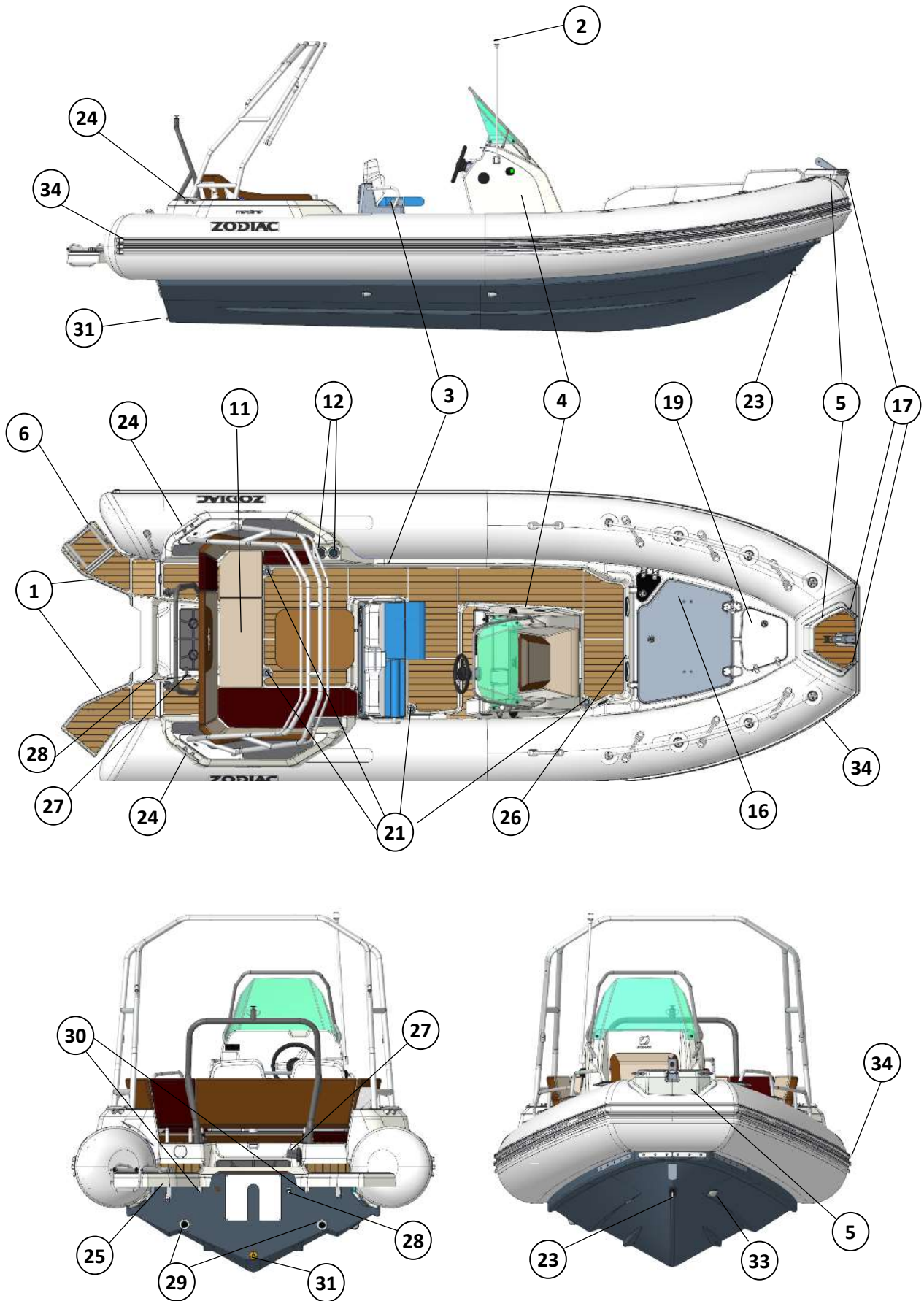


CAUTION!

**NEVER STORE INFLAMMABLE PRODUCTS IN THE AFT COMPARTMENT.
STORING AN ADDITIONAL FUEL TANK IS ABSOLUTELY FORBIDDEN.**

DESCRIPTION – INVENTORY AND LOCATION

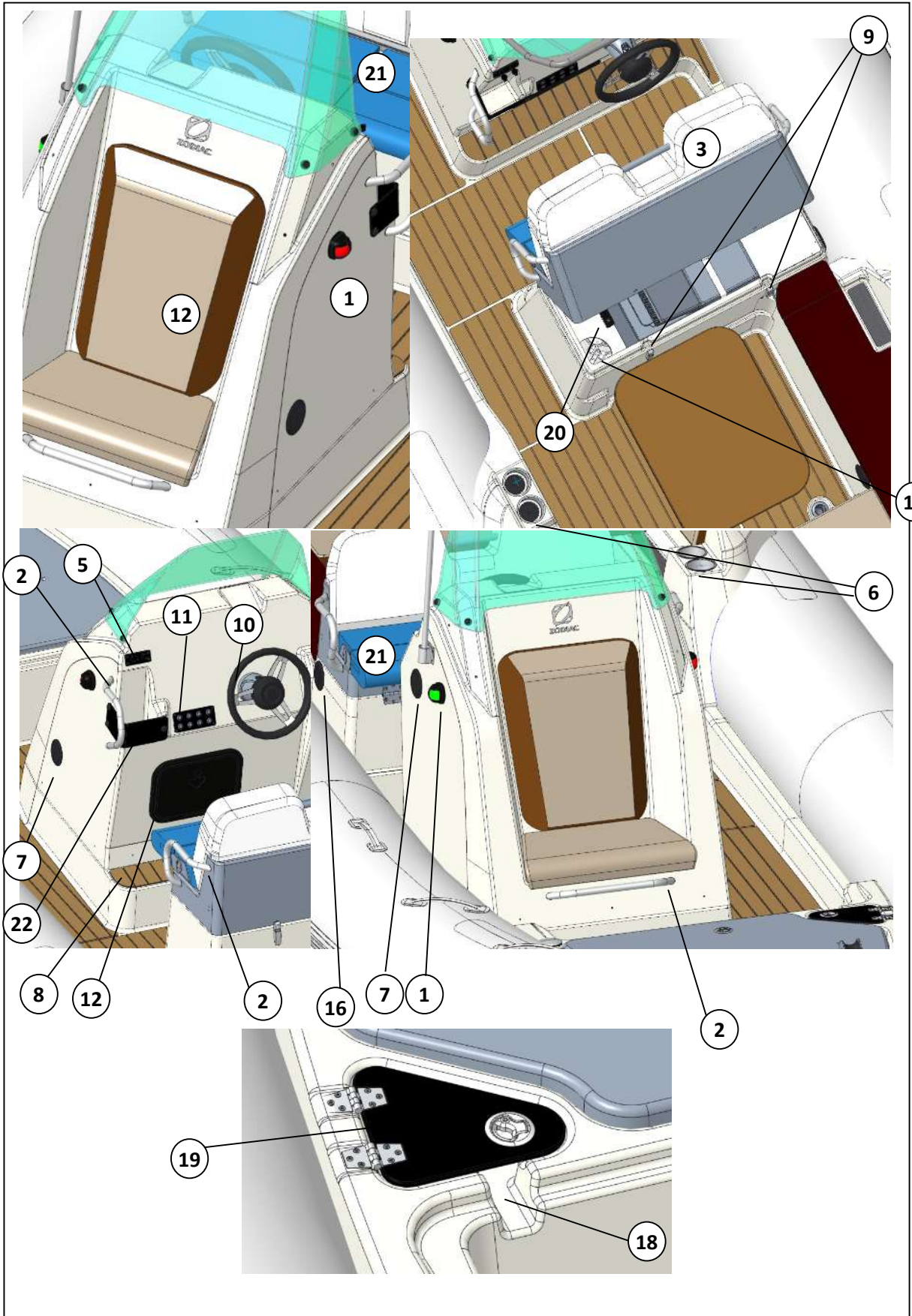
1.2. INVENTORY AND LOCATION



DESCRIPTION – INVENTORY AND LOCATION

Number	DESCRIPTION
	Polyester hull with moulded-on, non-skid deck
1	Aft sundeck
2	White navigation light
3	Equipped raised seat
4	Equipped console
5	Equipped roller
6	Boarding ladder
7	Electric bilge pump
8	Battery (box)
9	Battery switch
	} <i>Inside the aft locker</i>
10	
11	Aft locker
12	Cup holder
13	
14	Built-in fuel tank
15	
16	Forward locker
17	Forward mooring cleats
18	Removable hatch
19	Mooring locker
20	Handhold
21	Deck scupper
22	Inflation/deflation valves (X5)
23	Bow mooring eye
24	Stern mooring cleats
25	Bilge pump outlet
26	Tank vent
27	Hydraulic steering cable and engine wiring opening
28	Trough outlet
29	Dump outlets
30	Towing eyes
31	Hull outlet
32	Bow mooring eye
33	Anchor well drain
34	Chafe guard
	Removable tube with a very wide profile chafe guard, retaining lines and long fishtail cones.
STANDARD EQUIPMENT	
	Two telescopic paddles, a foot pump, a repair case, the Owner's Manual (two volumes) and a pressure gauge.

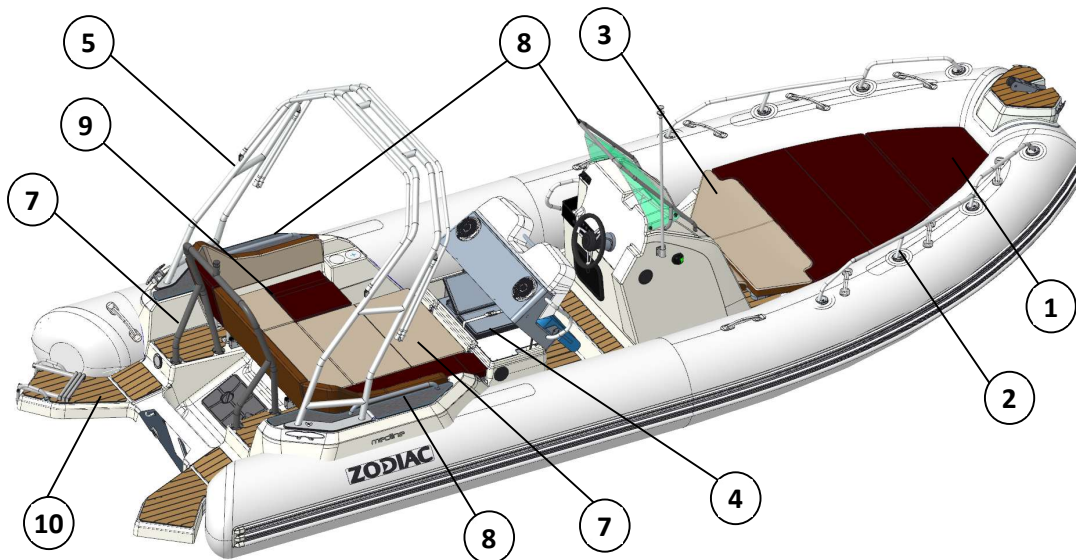
DESCRIPTION – INVENTORY AND LOCATION



NUMBER	DESCRIPTION
1	Red/green navigation lights
2	Grab handle
3	Front seat
4	Grab handle
5	12V socket and USB socket Switch
6	Cup holder
7	Ventilation
8	Foot rests
9	Latches
10	Wheel, hydraulic steering
11	Bilge pump/navigation lights switches
12	Console technical access
13	
14	
15	
16	Fuel ventilation
17	Access to fuel valve
18	Fuel overflow
19	Fuel filler
20	Bolster locker
21	Bolster cushions with raising system
22	Storage tray
23	Cup holder

DESCRIPTION – INVENTORY AND LOCATION

1.3. ACCESSORY LOCATIONS



Assembly instructions are provided with all accessories.

NUMBER	DESCRIPTION
1	Electric windlass
2	Bow rails
3	Bow sundeck extension
4	Refrigerator
5	Stainless roll bar + Bimini
6	Aft sundeck
7	Ski mast
8	Windscreen handrail; wings handrail
9	Fold-up seat
10	EVA deck mica
	Audio system Fusion radio, MP3, antenna, two 200 watt speakers
For other options available, please contact your ZODIAC dealer	

1.4. HANDLING

1.4.1. Transportation:

Tips for placing your boat on a trailer are provided in the Owner's Manual Volume I.

Use a trailer suitable for your boat.

The boat is sized for road transport. It is designed to be transported inflated.



IMPORTANT: WE RECOMMEND LOWERING THE ROLL BAR WHEN THIS OPTION IS FITTED TO THE BOAT.
BE SURE TO CHECK OVERALL HEIGHT BEFORE DRIVING WITH THE ROLL BAR IN PLACE AND ENSURE THAT YOUR VEHICLES DO NOT EXCEED HEIGHT LIMITS ALONG YOUR ROUTE.

Total weight when in condition for trailer transportation comprises:

Boat unladen weight:	922 kg	<i>Tolerance +/- 5 %</i>
Engine weight:	307 kg	<i>Engine + battery weight</i>
Consumable reserves:	195 kg	<i>Fuel and fresh water tanks</i>
Options:	200 kg	<i>Fully optioned model</i>
Safety equipment:	115 kg	<i>Equipment + moorings</i>
Σ:	1739kg	



LASHING DOWN ON A TRAILER OR CRADLE:
USE THE BOW MOORING EYE AND THE AFT EYES ON THE OUTSIDE OF THE TRANSOM.



RECOMMENDATION: FOR TRANSPORTATION WITH THE TUBE DEFLATED!
TO AVOID DAMAGING THE AFT CONES, WE RECOMMEND USING THE (OPTIONAL) TRANSPORTATION STRAP KIT.

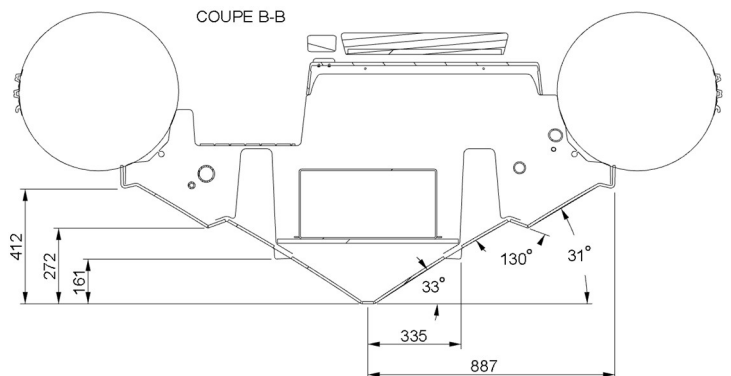
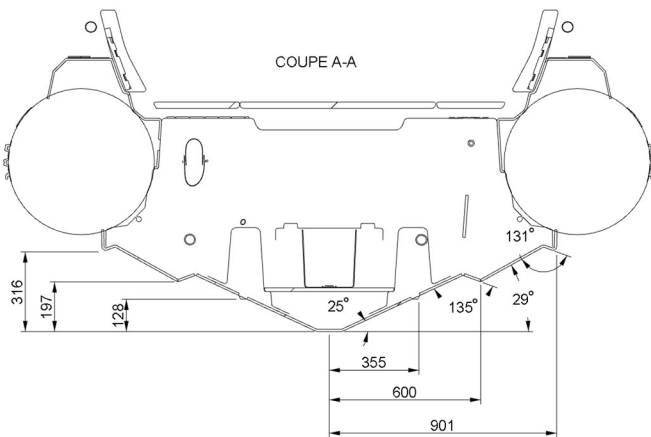
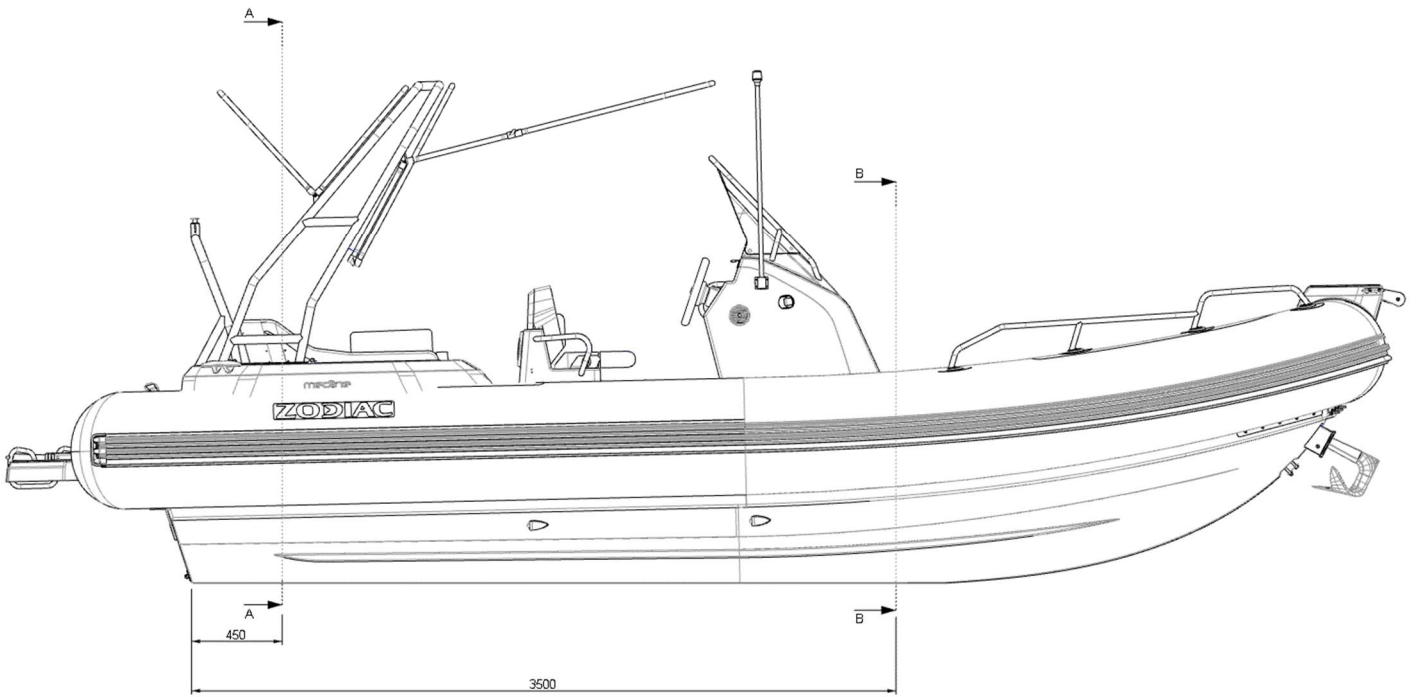
DESCRIPTION - Handling

1.4.2. Storage:

You can fold the console, remove the aft seat backs to optimise the boat's storage height.



CAUTION!
THE BOAT MUST REST ON ITS KEEL LINE.
SEE DIAGRAM BELOW.



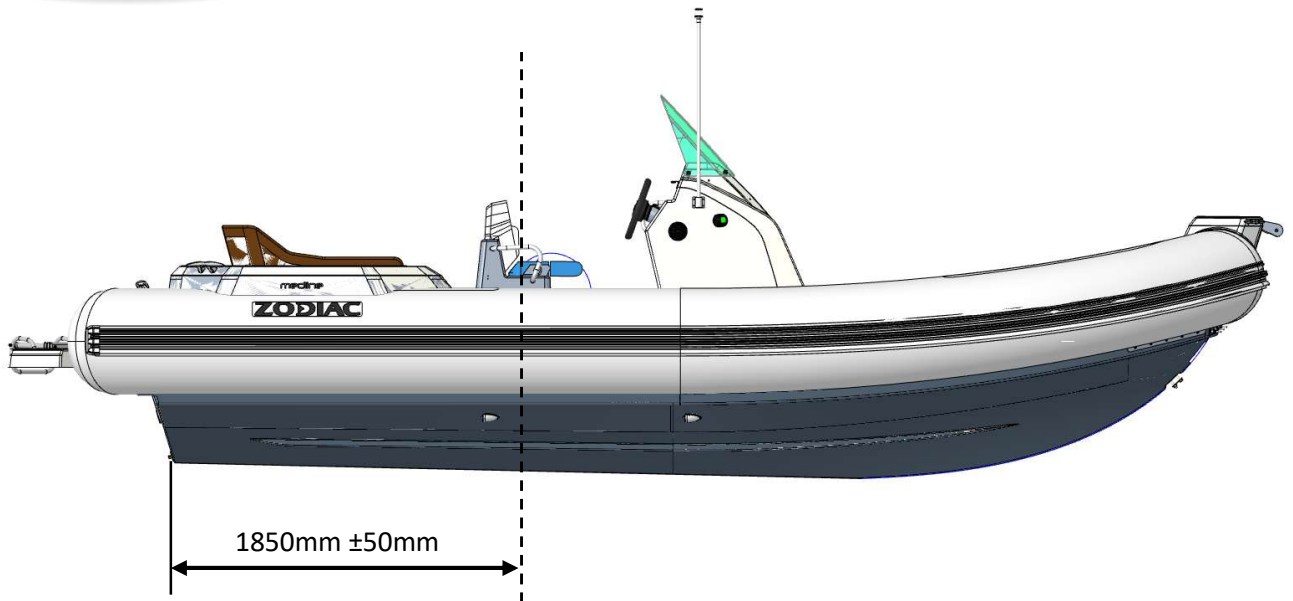
DESCRIPTION - Handling

1.4.3. Lifting:



WARNING

THE BOAT DOES NOT COME WITH ANY LIFTING EQUIPMENT. LIFTING MUST BE PERFORMED BY PLACING THE APPROPRIATE LIFTING STRAPS UNDER THE HULL.



*Estimated centre of gravity with the heaviest engine, excluding options.



WARNING

FOR LIFTING OPERATIONS, PLEASE CONTACT LIFTING SPECIALISTS.



DANGER!

NO PASSENGERS MAY BE ONBOARD DURING CRANE LIFTING.



CAUTION!

THE BOAT MUST ALWAYS BE UNLOADED OF ALL EQUIPMENT PRIOR TO CRANE LIFTING OR PLACING UNDER DAVITS.
OPEN THE AFT HULL OUTLET BEFORE PLACING THE BOAT IN THE WATER TO ENSURE THAT ANY RAINWATER CAN DRAIN FROM THE BILGE (ALWAYS BE SURE TO CLOSE THE OUTLET BEFORE PLACING THE BOAT IN THE WATER).

TUBE – Mounting the tube on the hull

2. TUBE

2.1. TUBE MAINTENANCE

The tube on your boat is made from

- NEOPRENE CSM-CR **1670** decitex, 1300 gr/m² or 1500. gr/m² cloth, or
- PVC Strongan cloth

Maintenance tips are provided in the Owner's Manual Volume I.

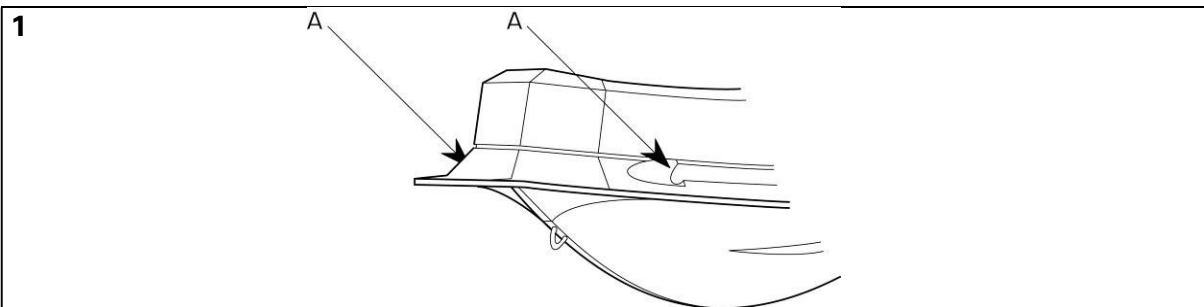
2.2. MOUNTING THE TUBE ON THE HULL



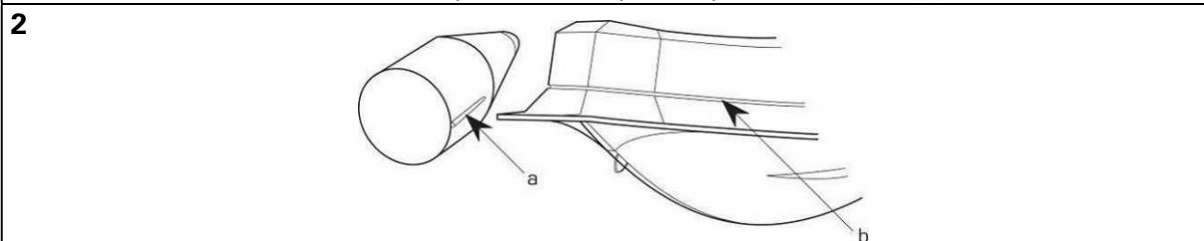
IF THE TUBE HAS BEEN STORED AT A TEMPERATURE OF LESS THAN 0°C, LEAVE IT FOR 12 HOURS IN A TEMPERATE LOCATION (AT 20°C) BEFORE UNFOLDING IT.

YOU CAN INFLATE THE TUBE PRIOR TO MOUNTING IT (TO A PRESSURE OF 240mb) AND LEAVE IT TO STABILISE FOR APPROXIMATELY ONE HOUR. THEN DEFLATE IT.

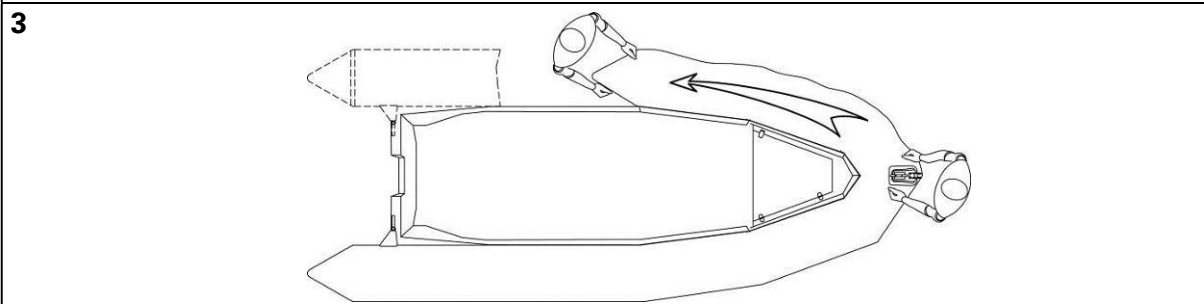
NOTE: The tube is mounted on the hull when deflated.



To make it easier to mount the tube, place some liquid soap in the hull rails (A).



Position the tube headline (a) in the hull rail (b) starting from the bow. Pull the tube until the water barrier reaches the transom.



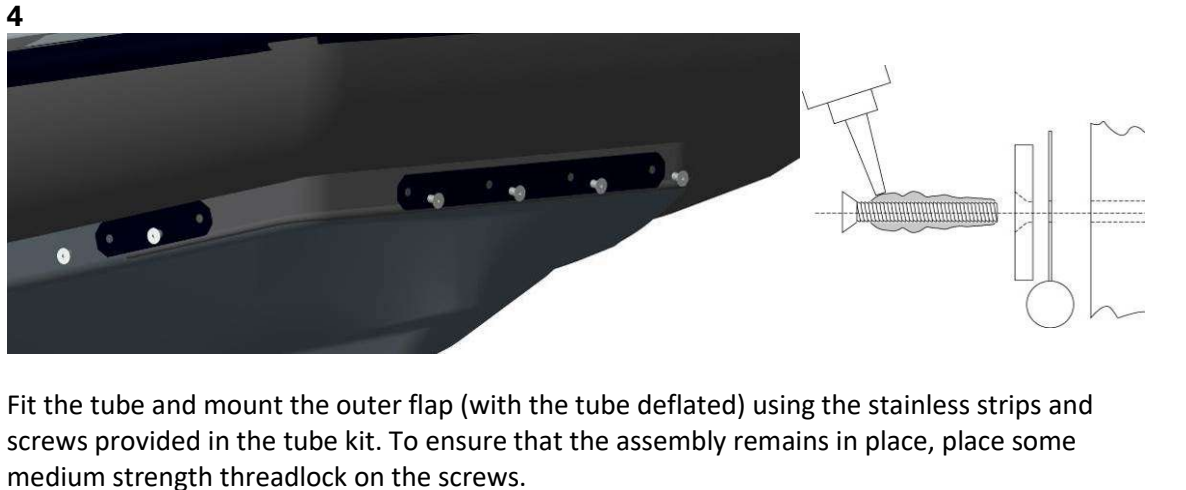
Proceed in the same way for the other side of the tube.

The two flaps (waterproofing and outside) must pass over the hull bow.

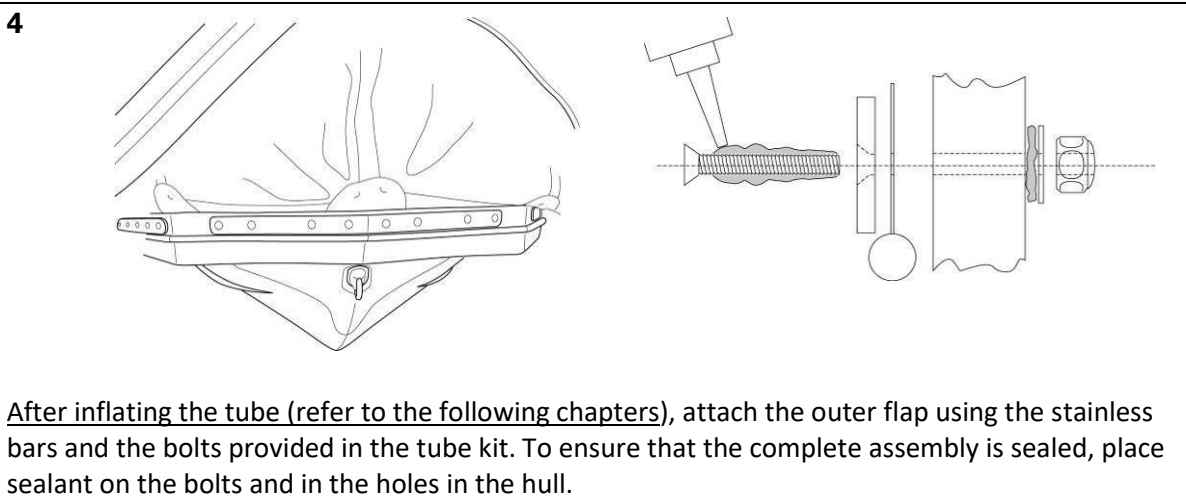
TUBE – INFLATING THE TUBE

2.3. MOUNTING THE FLAP

Mounting with inserts:



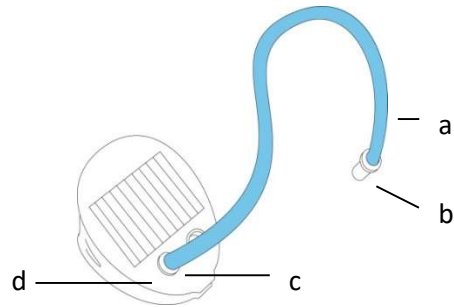
Mounting using through bolts:



TUBE – INFLATING THE TUBE

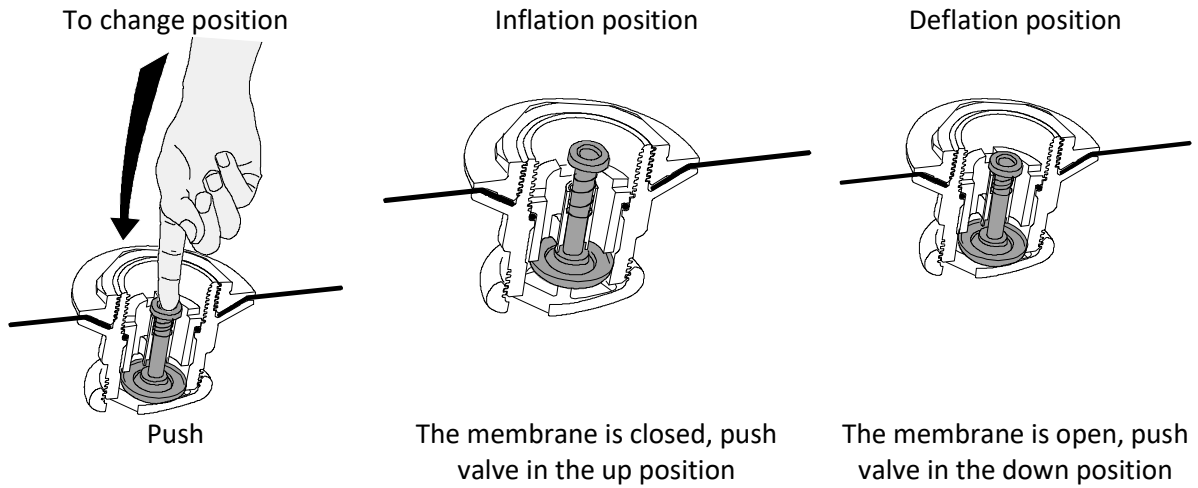
2.4. INFLATING THE TUBE

- **INFLATOR**
 - a. hose end
 - b. adaptor
 - c. hose base
 - d. inflation opening

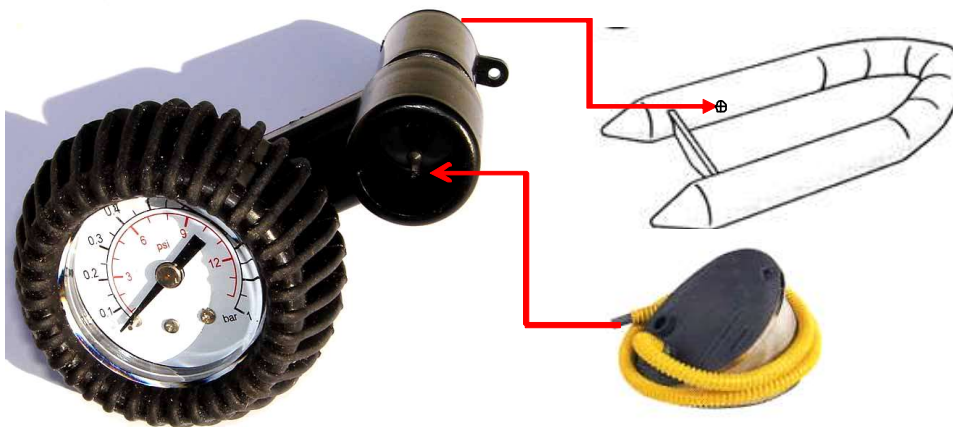


NOTE: A high capacity electric (12 V) inflator is available as an option (contact your dealer).

- **"EASY-PUSH" VALVES**



- **PRESSURE GAUGE**



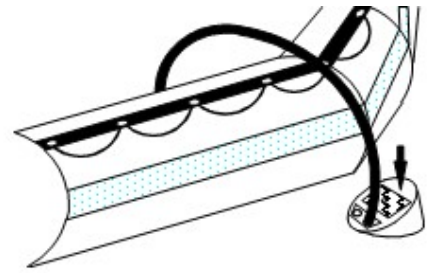
CAUTION!
NEVER USE A COMPRESSOR OR COMPRESSED AIR CYLINDER.

- **INFLATION**

1./ Set all of the valves to the inflation position.

2./ Fit the adaptor that matches the diameter of the "easy-push" valve onto the end of the inflator hose.

3./ Fit the hose base to the inflation outlet on the inflator.
To properly inflate your tube, the inflator needs to be properly placed on the ground.
The tube will inflate quickly if the inflator is operated smoothly and unhurriedly.



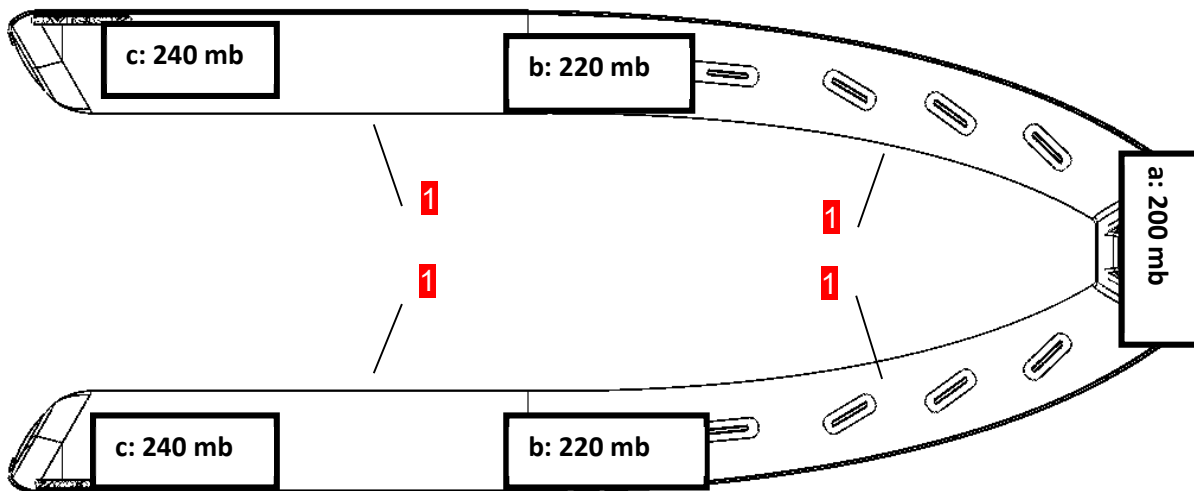
4./ Inflate the tube starting with the first compartment (a) from the bow (front), until a pressure of 200 mb is reached.

5./ Then inflate the compartments (b) in the middle, until a pressure of 220 mb is reached, as read on the pressure gauge left on the first compartment.

6./ Then inflate the aft compartments (c) to a pressure of 240 mb, still leaving the pressure gauge in the same location. The partitions (1) allow balancing the pressure in each compartment.

7./ Inflation complete: screw the inflation valve caps back on.

TUBE – PRESSURE



NOTE: Observing a slight air loss before screwing the valve cap on is perfectly normal.
Only the caps ensure complete sealing.

2.5. PRESSURE

The tube has 5 compartments. Each one should be at a pressure of **240 mb / 3.4 PSI**.
 This is the correct pressure for using the tube.

The ambient air or water temperature has a proportional influence on the pressure level inside the tube.	Ambient temperature	Tube internal pressure
	+1°C	+4 mb / 0.06 PSI
	-1°C	-4 mb / 0.06 PSI

It is therefore important to be able to anticipate changes.

Check and adjust the pressure in the inflatable compartments (by adding or releasing air as the case may be) in line with temperature variations (especially when there are significant temperature variations between morning and evening in areas that are particularly hot) and make sure that the pressure does not deviate from the recommended pressure range (220 to 270 mb).

UNDERPRESSURE HAZARD

Example:

Your boat is exposed to bright sunlight on the beach (temperature = 50°C) at the recommended pressure level (240 mb/3.4 PSI). When you put it in the water (temperature = 20°C), the temperature of the inflatable compartments and the pressure inside them will fall in step (by up to 120 mb) and **YOU WILL NEED TO REFLATE** to regain the millibars lost due to the difference in temperature between the ambient air and water.

Hence, it is perfectly normal to observe a fall in pressure at the end of the day when the outside temperature falls.

TUBE – PRESSURE

OVERPRESSURE HAZARD

Example:

Your boat is inflated to its recommended pressure (240 mb/3.4 PSI) at the start or the end of the day (low outside temperature = 10°C). During the day, your boat is exposed to bright sunlight on the beach or on the deck of a yacht (temperature = 50°C). The temperature inside the inflatable compartments may then rise as high as 70°C (especially with dark coloured tubes) causing the initial pressure to double (to 480 mb). **YOU WILL NEED TO DEFLATE** to return to the recommended pressure.

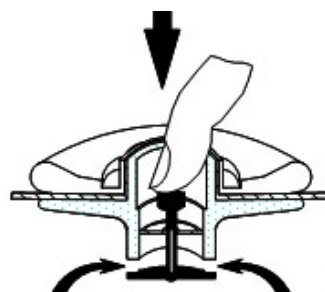


CAUTION!

IF YOUR BOAT IS OVER INFLATED, THE PRESSURE WILL PUT TOO MUCH STRESS ON THE INFLATABLE STRUCTURE AND MAY CAUSE AN ASSEMBLY FAILURE.

SHOULD AN OVERPRESSURE OCCUR

Release air by pressing on the valve knob



PROPULSION SYSTEM

3. Propulsion system

Comply with the instructions provided by ZODIAC and with the instructions provided by the engine manufacturer when mounting the engine.

For optimum use of your boat, please refer to your dealer.

Fitting the engine bolts through the transom requires applying a procedure for sealing the holes used to fit the bolts (e.g. using Sikaflex sealant).

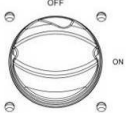

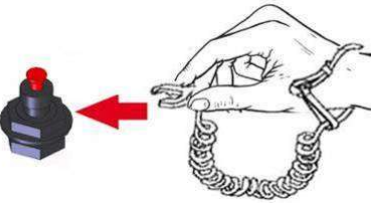

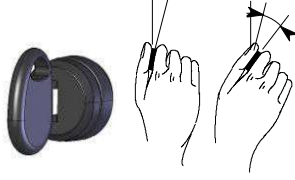
For boats that are not rigged by the builder, you will need to install an approved fuel filter between the fuel tank and the engine.

HANDLING YOUR BOAT

4. Handling your boat

Before starting, please refer to the Owner's Manual Volume I.

NOTE: Check that the tube is properly inflated.

<p>1</p>  <p>Move the battery switch to "ON" to provide voltage</p>	<p>2</p>  <p>Move the fuel valve to "ON" to provide fuel</p>	
<p>3</p>  <p>Put the circuit breaker on and connect it*</p>	<p>4</p>  <p>Control lever in neutral</p>	<p>5</p>  <p>Actuate the engine starter</p>

** Should the operator fall overboard, immediately shutting down the engine considerably reduces the risk of serious or even deadly injuries caused by the boat's motion. Always properly attach both ends of the emergency circuit breaker.*



DANGER!

- IMMEDIATELY SHUTDOWN THE ENGINE WHENEVER A SWIMMER IS NEAR THE BOAT. A SPINNING PROPELLER REPRESENTS A SERIOUS INJURY HAZARD.



CAUTION!

- WHEN AT SEA, KEEP ALL OF THE LOCKERS, DECK HATCHES AND THE FUEL TANK ACCESS HATCH CLOSED.

CRESTING WAVES REPRESENT A MAJOR BOAT STABILITY AND FLOODING HAZARD.

- SHOULD A DECK HATCH SEAL BECOME DAMAGED, PLEASE CONTACT YOUR DEALER TO ENSURE REPLACEMENT AS SOON AS POSSIBLE.

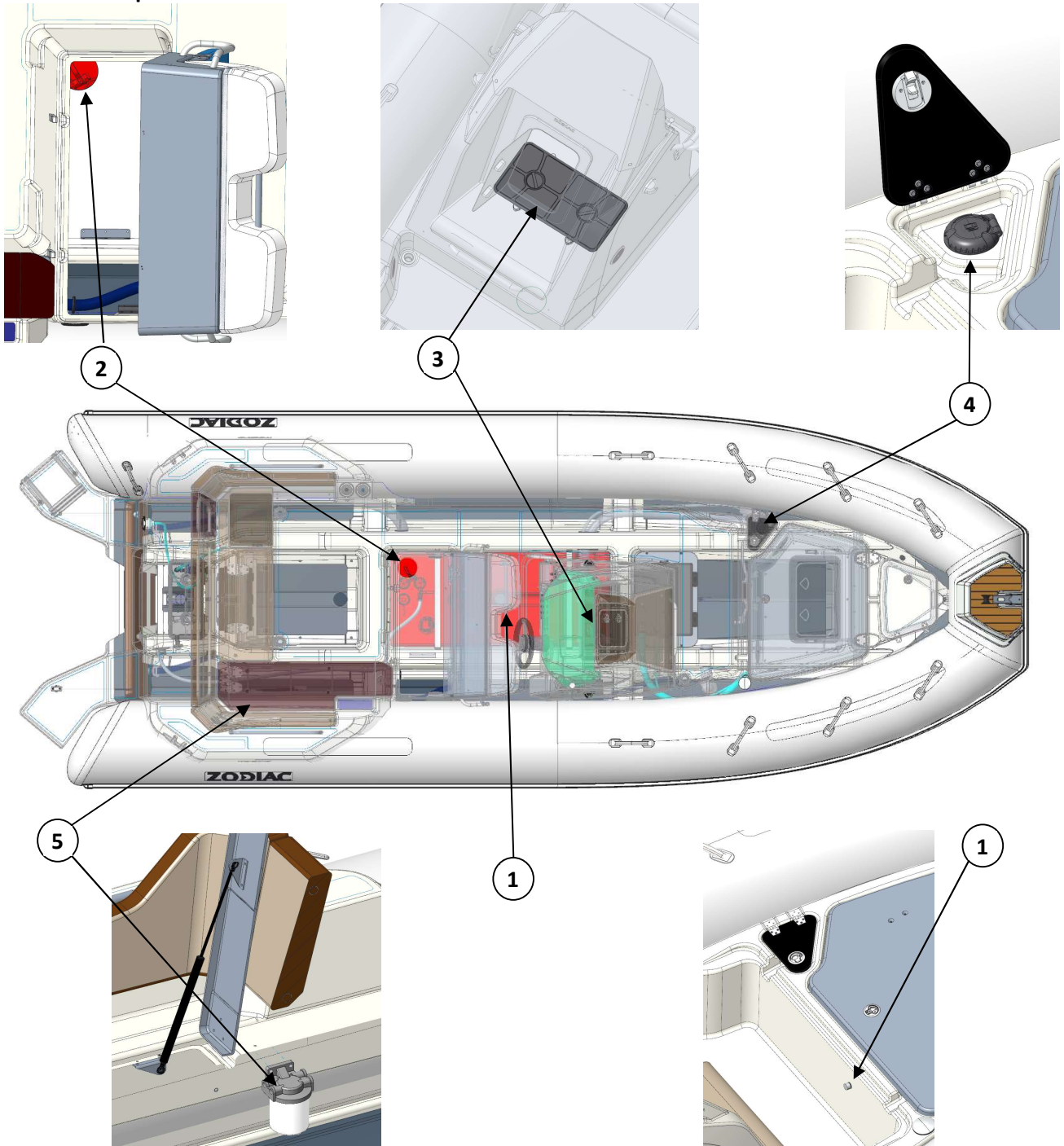
- AVOID SUDDEN COURSE CHANGES AT FULL SPEED. REDUCE SPEED WHEN WAVES ARE ENCOUNTERED FOR THE COMFORT AND SAFETY OF THE OCCUPANTS.

5. FUEL CIRCUIT



CAUTION!
NEVER USE BIOFUELS SUCH AS TYPE E10, E85, ETC.

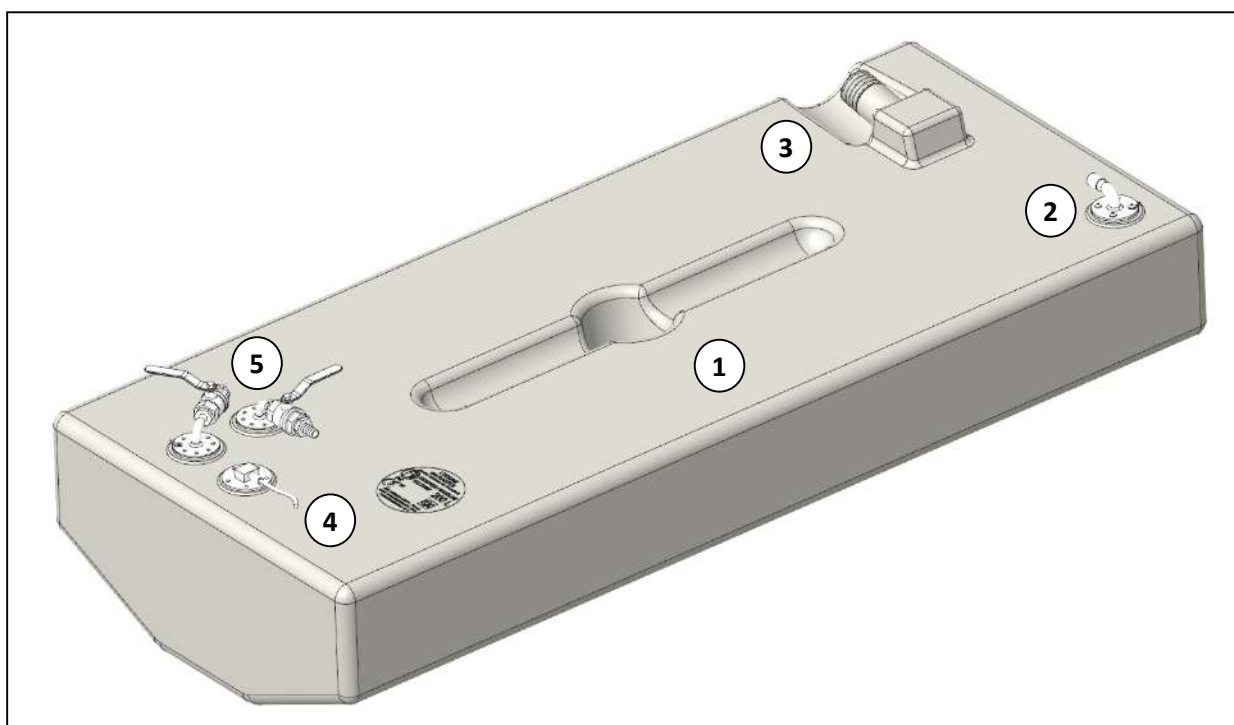
5.1. Component locations:



INSTALLATION AND CIRCUIT: FUEL

Number	DESCRIPTION
1	Fuel tank
2	Fuel valve access hatch
3	Access hatch for the fuel filler and tank vent
4	Fuel filler with cap
5	Water separating fuel filter (if the boat is factory rigged)
6	Tank vent

5.2. Fuel tank:



Number	DESCRIPTION
1	Fuel tank*, rated capacity 200 litres
2	Vent outlet
3	Fuel filler
4	Fuel gauge transmitter
5	Suction pipe with fuel cut-off valve

**The rated capacity of the fuel tank may not be fully usable depending on boat trim and loading. We recommend retaining a 20% fuel reserve.*



CAUTION!

FITTING A FUEL GAUGE IS MANDATORY. IT IS SUPPLIED WITH THE ENGINE. IF IT IS NOT PROVIDED, CONTACT YOUR DEALER.

A standard US type sensor is used:

Impedance (fuel tank empty position) 30 Ohm

Impedance (fuel tank full position) 240 Ohm

All gauges on the market are compatible, with a very few exceptions.

To connect the gauge, refer to the electrical diagram.

5.3. Water separating fuel filter (if the boat is factory rigged):

To protect the engine, a water separating fuel filter is fitted to the engine fuel supply line.



Number	DESCRIPTION
1	Water separating fuel filter
2	Interchangeable filter cartridge

Every time you use the engine, check that there is no water in the metal bowl:

- Slightly unscrew the filler cap (do not remove it completely),
- Drain the water,
- Screw the cap back down if there is only fuel in the bowl.

Repeat the operation more often if your engine does not run properly.

INSTALLATION AND CIRCUIT: FUEL



CAUTION!
IT IS ESSENTIAL TO REPLACE THE FILTER CARTRIDGE EVERY 50 HOURS OF USE.
CONTACT YOUR DEALER TO PURCHASE A REPLACEMENT FILTER CARTRIDGE.

REPLACING THE FILTER CARTRIDGE

Comply with the instructions provided by ZODIAC and with the instructions provided by the filter manufacturer. Follow the instructions in the manual or those provided by the engine manufacturer.

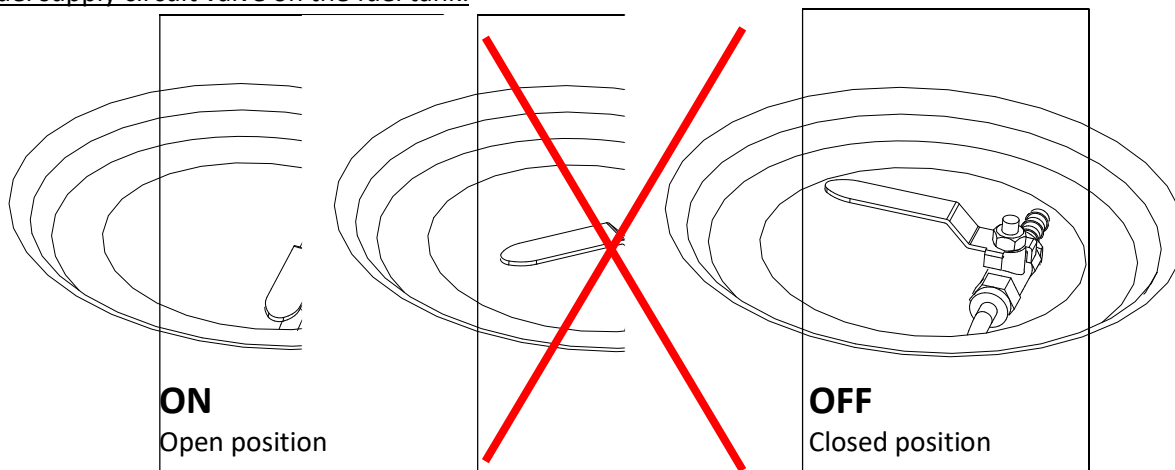
Place a drain funnel under the location where the cartridge will be replaced.
 Before replacing the filter, release the pressure from the fuel supply system.



5.4. Using the fuel supply circuit cut-off valves:

When you are not using your boat, close the fuel supply circuit valve.

Fuel supply circuit valve on the fuel tank:



WARNING:
IF A FIRE BREAKS OUT ONBOARD, SHUTDOWN THE ENGINE AND CLOSE THE FUEL SUPPLY VALVES.

5.5. Recommendations:



WARNING:

- IF THERE IS A FUEL LEAK OR FIRE ONBOARD, THE FUEL CIRCUIT CUT-OFF VALVE LOCATED ON THE FUEL TANK IS USED TO CUT-OFF THE FUEL TANK FROM THE FUEL CIRCUIT AND IT MUST REMAIN CLOSED.
- KEEPING A FULL FUEL TANK AVOIDS CONDENSATION WHENEVER YOU TAKE THE BOAT OUT.
- HAVE THE FUEL TANK CLEANED EVERY FIVE YEARS.
- CHECK THE TIGHTNESS OF THE CLAMPS ON ALL OF THE HOSES.
- WHEN DRAINING THE FUEL FILTER, DO NOT EMPTY THE WATER INTO THE BOAT, USE A RECOVERY CONTAINER UNDER THE FILTER.
- SWITCH OFF THE IGNITION BEFORE REMOVING THE CARTRIDGE FROM THE FILTER.
- CAREFULLY READ THE INSTRUCTIONS IN THE FILTER INSTRUCTIONS.
- FUEL IS EXTREMELY INFLAMMABLE. WHEN YOU NEED TO WORK ON THE FUEL CIRCUIT ALWAYS MAKE SURE THAT THE ENGINES ARE STOPPED.
- NO SMOKING. KEEP ALL FLAMES OR INCANDESCENT MATERIALS AWAY FROM THE WORK AREA.
- NEVER DRILL THE FUEL TANK AREA (AS SHOWN FROM THE DECK BY THE HATCH OVER IT) WITH A DRILL BIT THAT PROTRUDES FROM THE DRILL CHUCK BY MORE THAN 50 MM AND NEVER USE SCREWS THAT ARE MORE THAN 20 MM LONG.



DANGER!

NEVER STORE INFLAMMABLE PRODUCTS IN THE AFT COMPARTMENT. STORING AN ADDITIONAL FUEL TANK IS ABSOLUTELY FORBIDDEN.



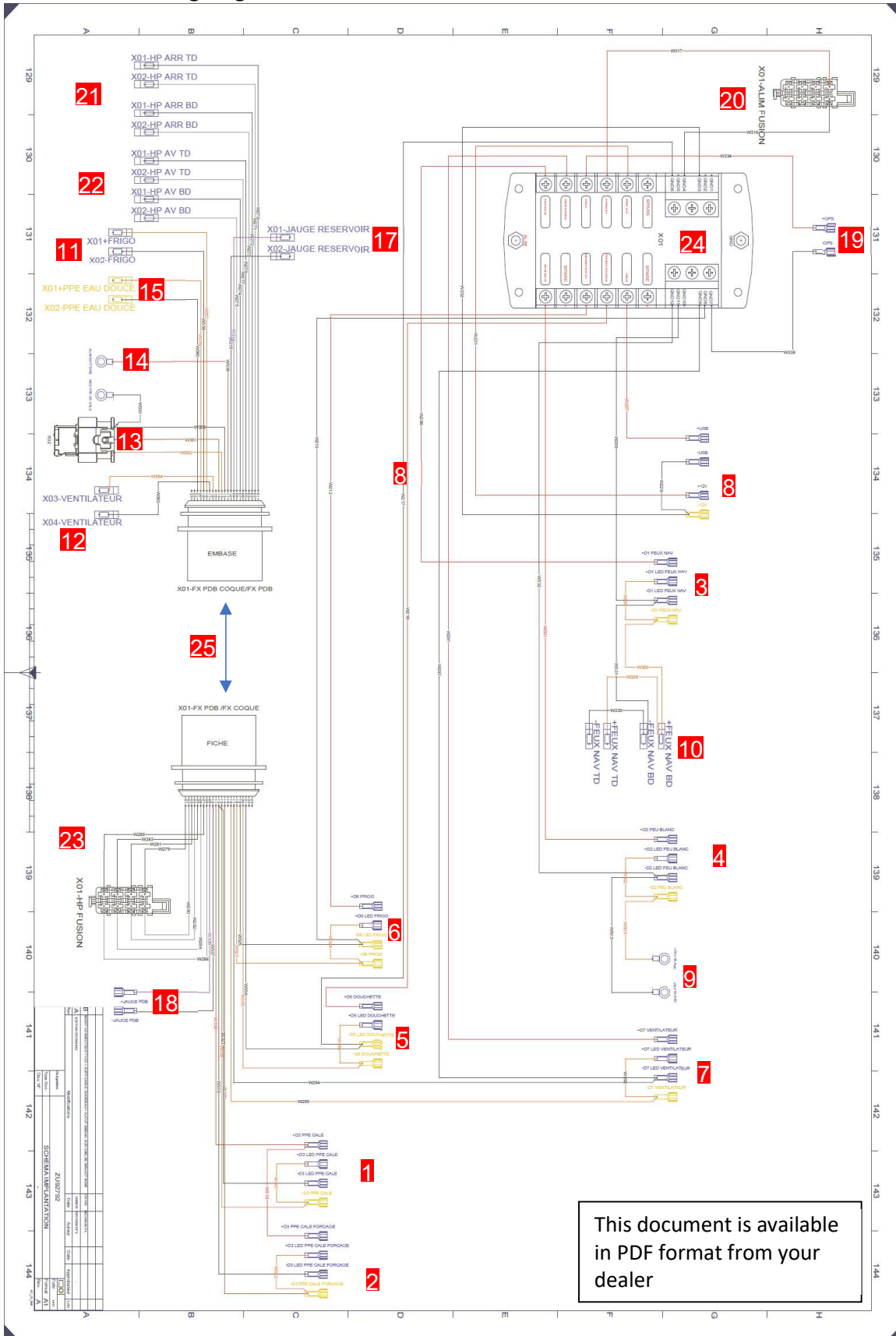
CAUTION!

NEVER MAKE ANY MODIFICATIONS TO THE FUEL SYSTEM FOR ANY REASON WHATSOEVER AND NEVER LET ANYONE WITHOUT SUITABLE QUALIFICATIONS MAKE ANY MODIFICATIONS TO THESE INSTALLATIONS.

INSTALLATION AND CIRCUIT: ELECTRICALS

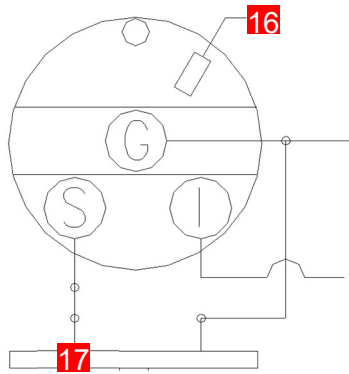
6. ELECTRICAL CIRCUIT

6.1. Main wiring diagram:



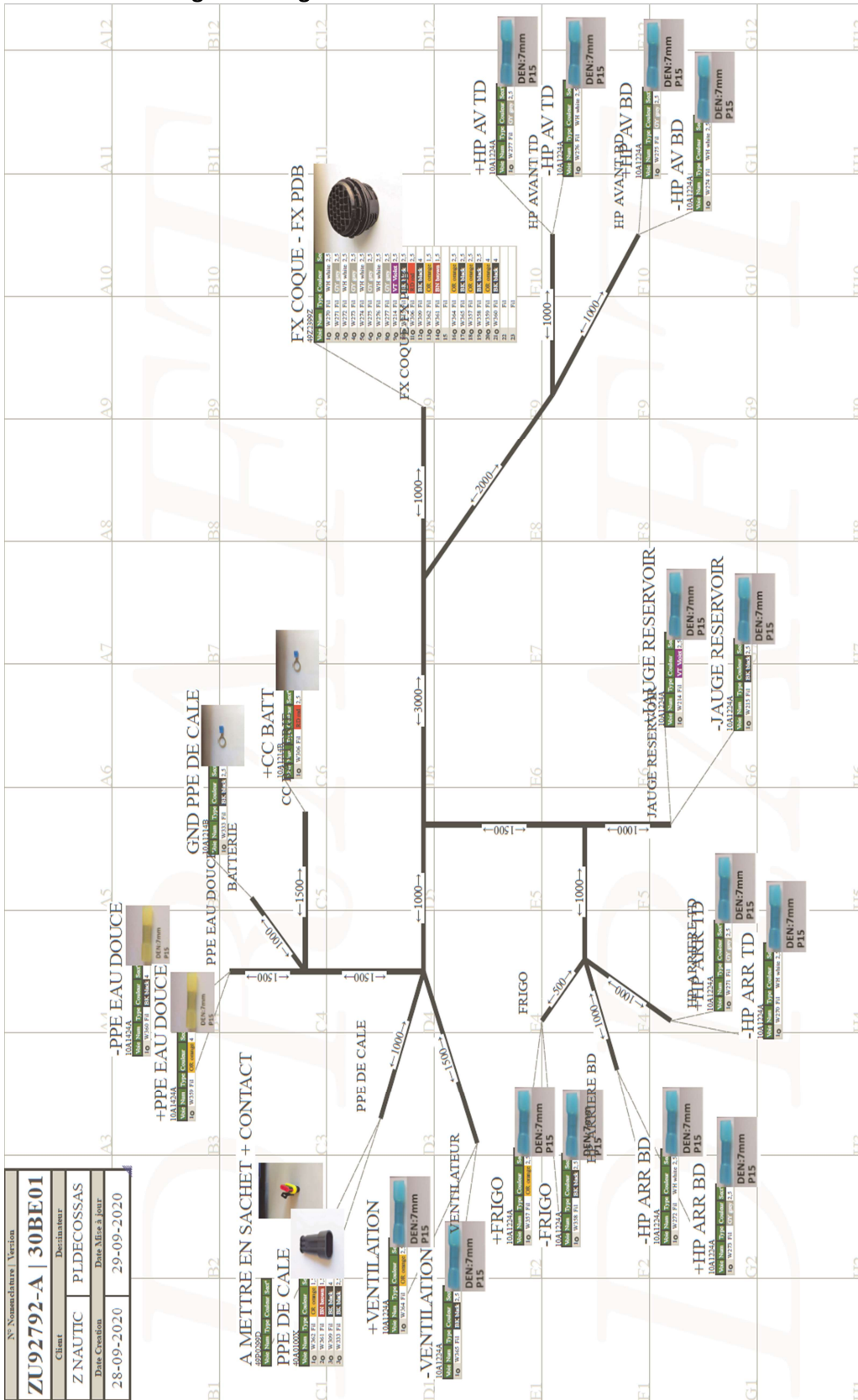
This document is available in PDF format from your dealer

INSTALLATION AND CIRCUIT: ELECTRICALS



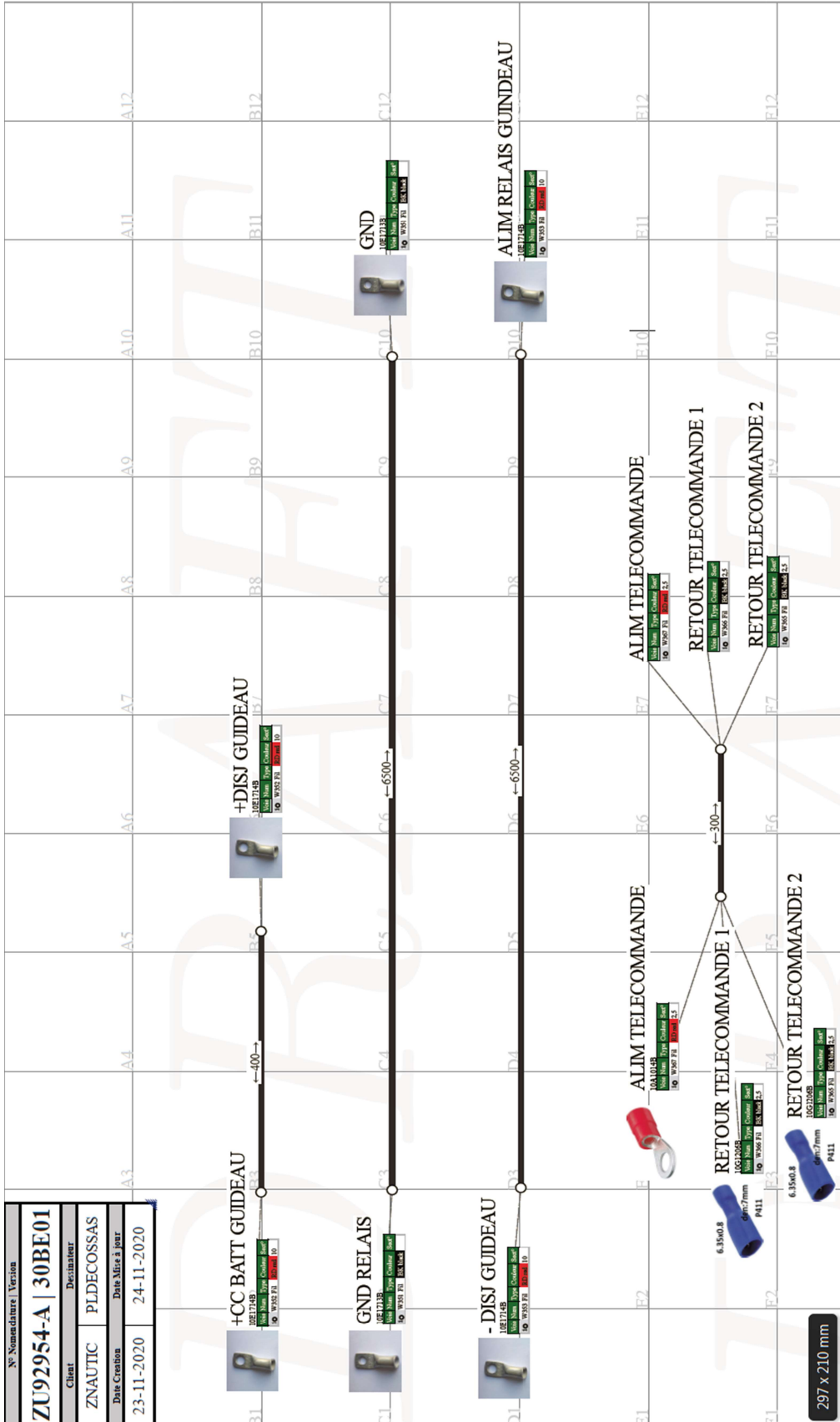
Number	DESCRIPTION
1	Automatic bilge pump switch
2	Bilge pump on override switch
3	Navigation light switch
4	White light switch
5	Shower pump switch (optional)
6	Refrigerator switch (optional)
7	Bilge fan switch (not available on this model)
8	USB /12 volt socket (console)
9	White light
10	Red/green lights
11	Refrigerator
12	Bilge fan (not provided)
13	Bilge pump
14	Circuit breaker
15	Water pump connection
16	Fuel gauge
17	Fuel gauge transmitter
19	GPS power supply
20	Audio system power supply
21	Aft audio outputs
22	Forward audio outputs
23	Audio system output
24	Fuse box
25	Console/hull wiring loom connectors

6.3. Hull wiring loom diagram:



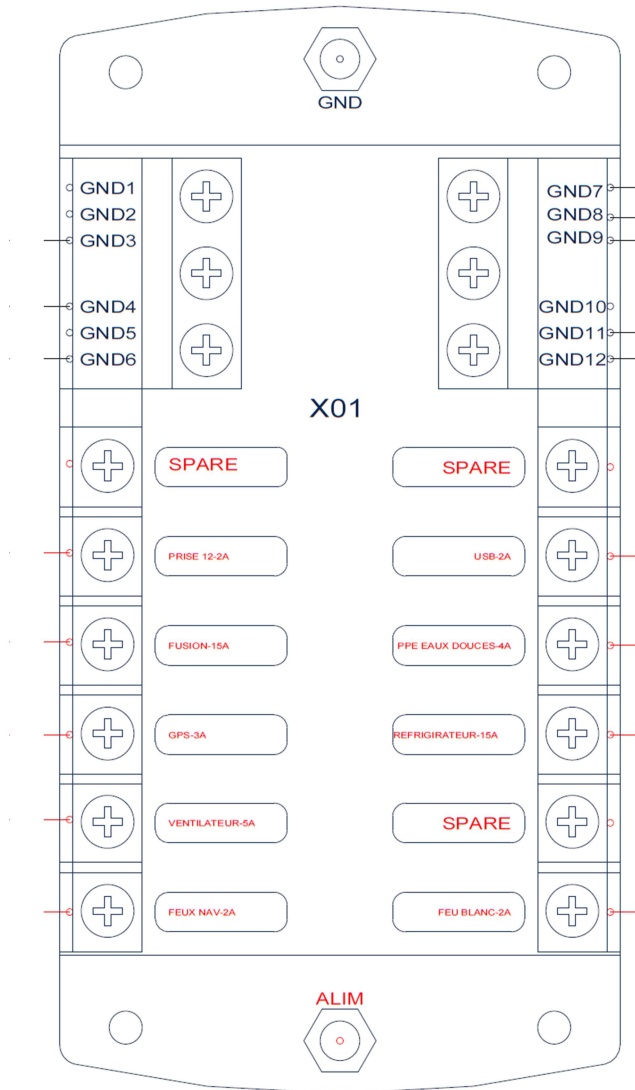
INSTALLATION AND CIRCUIT: ELECTRICALS

6.4. Optional electric windlass wiring loom



INSTALLATION AND CIRCUIT: ELECTRICALS

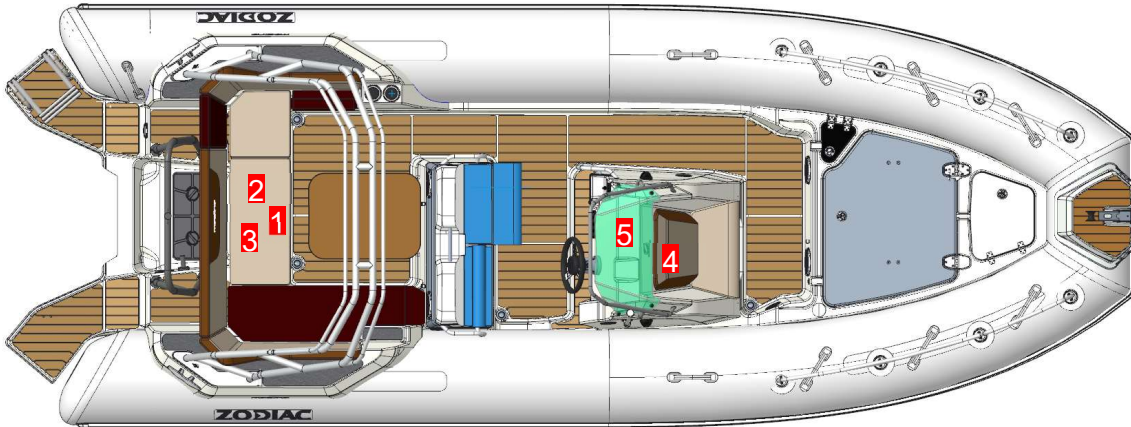
6.5. Fuses



Number	DESCRIPTION	
	10A fuse USB socket console	Red 10 AWG16
	10A fuse USB socket bolster	Red 12 AWG16
	10A fuse Fridge	Red 7 AWG16
	10A fuse Shower kit	Red 11 AWG14
	3A fuse Vanity lights	Red 9 AWG18
	5A fuse Navigation lights	Red 6 AWG18
	5A fuse Bilge pump	Red 4 AWG16

INSTALLATION AND CIRCUIT: ELECTRICALS

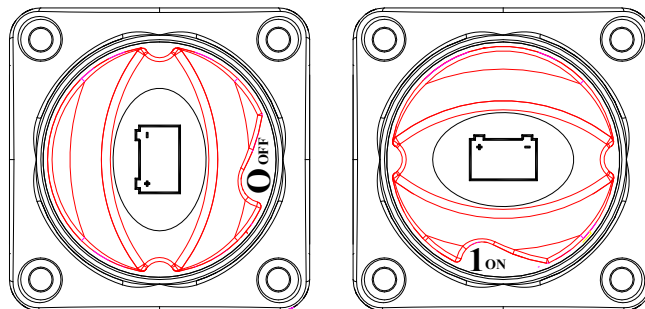
6.6. Component locations:



Number	DESCRIPTION
1	Circuit breaker access
2	Circuit breaker
3	Battery box
4	Fuse box access
5	Fuse box

6.7. Circuit breaker:

When not using your boat set the circuit breaker in the OFF position



WARNING

SWITCH OFF THE ENGINE BEFORE PLACING THE CIRCUIT BREAKER IN THE "OFF" POSITION

6.8. Battery (not supplied):

Comply with the instructions provided by ZODIAC and with the instructions provided by the battery manufacturer for routine maintenance.



MAINTAIN YOUR BATTERY:

- KEEP YOUR BATTERY CLEAN AND DRY TO AVOID PREMATURE DETERIORATION.
- TIGHTEN AND SERVICE THE CONNECTORS ON THE BATTERY TERMINALS TAKING CARE TO REGULARLY GREASE THEM WITH VASELINE.



CAUTION!

MAINS WATER CONTAINS MINERALS THAT DAMAGE BATTERIES. ONLY ADD DISTILLED WATER TO THE BATTERY. ALWAYS INSTALL THE BATTERY SO THAT THERE IS NO FUEL TANK, FUEL FILTER OR FUEL LINE CONNECTOR WITHIN A SPACE OF 12" (305 MM) FROM THE BATTERY SURFACE.



WARNING

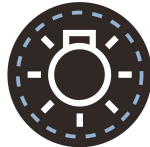




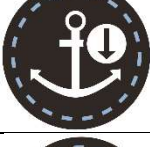
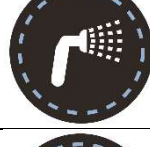
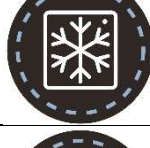
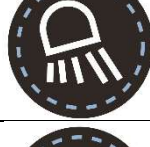

- KEEP BATTERIES AND ELECTROLYTE OUT OF REACH OF CHILDREN.
- NEVER LAY THE BATTERY ON ITS SIDE.
- WHEN ADDING ELECTROLYTE OR RECHARGING THE BATTERY, ALWAYS REMOVE IT FROM THE ENGINE COMPARTMENT.
- BATTERY ELECTROLYTE IS A TOXIC AND HAZARDOUS LIQUID. IT CONTAINS SULFURIC ACID THAT MAY CAUSE SERIOUS BURNS. AVOID ANY CONTACT WITH SKIN, EYES AND CLOTHES.
- BATTERIES MAY RELEASE EXPLOSIVE GASSES. KEEP SOURCES OF SPARKS, NAKED FLAMES AND CIGARETTES, ETC. AWAY FROM BATTERIES.
- WHEN CHARGING OR USING A BATTERY, ALWAYS WORK IN A WELL VENTILATED LOCATION. ALWAYS PROTECT YOUR EYES WHEN WORKING NEAR A BATTERY.

NOTE:

- When you do not intend to use your boat for a month or more, remove the battery and store it in a cool, dark, dry place. Fully recharge the battery before using it again.
- If the battery is to be stored for a longer period of time, check the electrolyte density at least once a month and recharge the battery as soon as the density falls too far.
- Electrolyte density: 1.28 at 20°C.

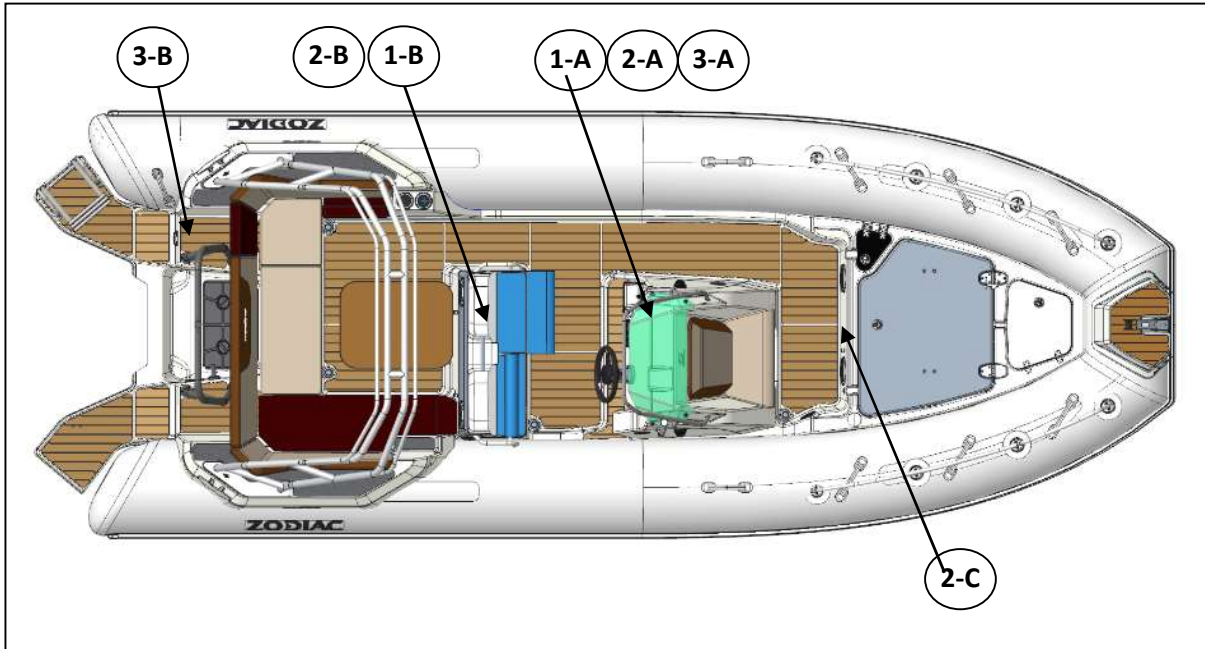
INSTALLATION AND CIRCUIT: ELECTRICALS






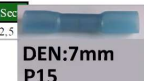
6.9. Switches

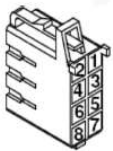
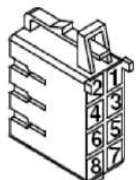
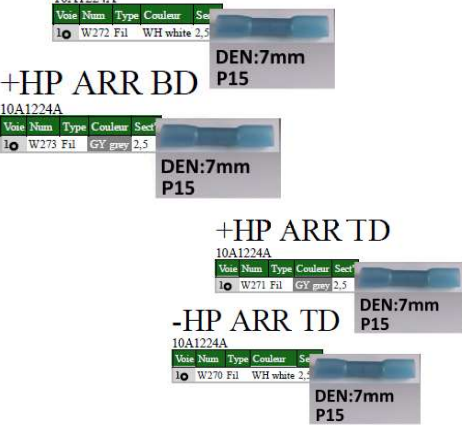
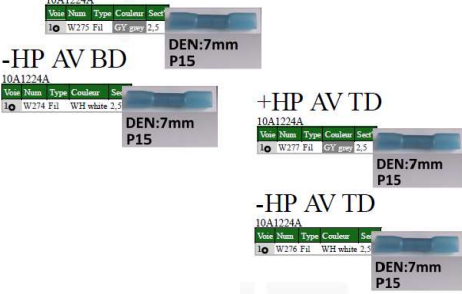
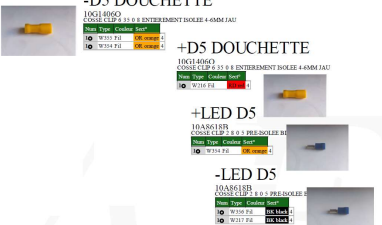
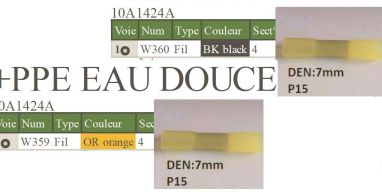
Use this button to switch the white all horizon light on/off	
Use this button to switch the red/green navigation lights on/off	
Use this button to switch the bilge pump on/off	
Use this button to switch the bilge pump AUTOMATIC MODE on/off	
Use this button to raise the anchor <i>(only when electric winch control is installed on the console)</i>	
Use this button to lower the anchor <i>(only when electric winch control is installed on the console)</i>	
Use this button to switch the fresh water shower pump on/off <i>(only when the optional shower is installed)</i>	
Use this button to switch the refrigerator on/off <i>(only when the optional refrigerator is installed)</i>	
NOT AVAILABLE	
NOT AVAILABLE	

6.10. Wiring an accessory:

Some optional equipment ready wired. The connections are provided in the hull as follows:



1-A	Refrigerator switch	<p>6.35x0.8 +D6 FRIGO  10G1206R COSSE CLIP 6 35 0 8 ENTIEREMENT ISOLEE 1 5-3 MM Num Type Couleur Sect W212 Fil OR orange 2,5</p> <p>+LED D6  10A8618R COSSE CLIP 2 8 0 5 PRE-ISOLEE BLEUE FERROVIAIRE Num Type Couleur Sect W324 Fil OR orange 2,5</p> <p>-LED D6  10A8618R COSSE CLIP 2 8 0 5 PRE-ISOLEE BLEUE FERROVIAIRE Num Type Couleur Sect W325 Fil BK black 2,5 W213 Fil BK black 2,5</p> <p>L -D6 FRIGO  10G1406O COSSE CLIP 6 35 0 8 ENTIEREMENT ISOLEE 4-6MM 1AU Num Type Couleur Sect W323 Fil OR orange 2,5 W324 Fil OR orange 2,5</p>
1-B	Refrigerator power supply	<p>+FRIGO  10A1224A Voie Num Type Couleur Sect W357 Fil OR orange 2,5</p> <p>DEN:7mm P15</p> <p>-FRIGO  10A1224A Voie Num Type Couleur Sect W358 Fil BK black 2,5</p> <p>DEN:7mm P15</p>

<p>2-A</p>	<p>Audio system power supply and signal outputs</p>	<p>ALIM FUSION 4970714Z CONNECTEUR 8PTS M AUTORADIO ISO ALIM TYCO 14417</p> <table border="1"> <thead> <tr> <th>Voie</th> <th>Num</th> <th>Type</th> <th>Couleur</th> <th>Sect*</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>W317</td> <td>Fil</td> <td>RD red</td> <td>4</td> </tr> <tr> <td>80</td> <td>W318</td> <td>Fil</td> <td>BK black</td> <td>4</td> </tr> </tbody> </table>  <p>HP FUSION 49Z0814Z CONNECTEUR 8PTS M AUTORADIO ISO HP TYCO 144172-2</p> <table border="1"> <thead> <tr> <th>Voie</th> <th>Num</th> <th>Type</th> <th>Couleur</th> <th>Sect*</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>W279</td> <td>Fil</td> <td>WH white</td> <td>2,5</td> </tr> <tr> <td>20</td> <td>W280</td> <td>Fil</td> <td>GY grey</td> <td>2,5</td> </tr> <tr> <td>30</td> <td>W283</td> <td>Fil</td> <td>WH white</td> <td>2,5</td> </tr> <tr> <td>40</td> <td>W284</td> <td>Fil</td> <td>GY grey</td> <td>2,5</td> </tr> <tr> <td>50</td> <td>W285</td> <td>Fil</td> <td>WH white</td> <td>2,5</td> </tr> <tr> <td>60</td> <td>W286</td> <td>Fil</td> <td>GY grey</td> <td>2,5</td> </tr> <tr> <td>70</td> <td>W281</td> <td>Fil</td> <td>WH white</td> <td>2,5</td> </tr> <tr> <td>80</td> <td>W282</td> <td>Fil</td> <td>GY grey</td> <td>2,5</td> </tr> </tbody> </table> 	Voie	Num	Type	Couleur	Sect*	70	W317	Fil	RD red	4	80	W318	Fil	BK black	4	Voie	Num	Type	Couleur	Sect*	10	W279	Fil	WH white	2,5	20	W280	Fil	GY grey	2,5	30	W283	Fil	WH white	2,5	40	W284	Fil	GY grey	2,5	50	W285	Fil	WH white	2,5	60	W286	Fil	GY grey	2,5	70	W281	Fil	WH white	2,5	80	W282	Fil	GY grey	2,5
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6.11. Connecting options:

The boat is fitted with a bilge pump as standard. Further accessories may be added subject to certain conditions:

- The accessories that you wish to add will need to be connected at the console level.
- The accessories come in two categories:
 - A** → accessories that are or may be used continuously during normal boat operation,
 - B** → accessories that are used intermittently.

A		and	B	
Windscreen wipers			Cigarette lighter socket (standard)	
Radio			Various lighting	
Depth sounder			Horn	
GPS			Various electronic equipment	
Searchlight			Shower pump	
Alarm system			Max. rated power	102W max.
Refrigerator				
VHF				
Σ	336W max.			



WARNING

Always ensure that the sum of the power requirements of the accessories in column A that you are adding does not exceed **336W (28A)** AND that the maximum power of an accessory in column B does not exceed **102W (8.5A)**.

The cross sections of the various wires in the wiring loom have been calculated using these values. Failure to comply with this rule may cause electrical failures and short circuits.

You can connect optional equipment directly to the positive and negative busbars in the console (up to the maximum power limit), by inserting an approved fuse holder.

NOTE: If you have a number of electrical devices installed, the instantaneous power consumption may possibly exceed the charge capacity of your outboard motor.

The electrical wiring loom can accept an instantaneous power consumption of 570W (including navigation lights and the bilge pump), or a little under 48A in current terms. Current outboard motor alternators generally supply 15A at full power. Please refer to the technical documentation for your outboard motor. You should therefore avoid prolonged use of these devices to avoid draining your battery and being unable to restart the engine.

INSTALLATION AND CIRCUIT – CONNECTING OPTIONS

Example 1

You wish to add:

- A 72W VHF set,
- A 36W GPS unit,
- A 180W radio,
- LED vanity lights 10W
- Shower pump 48W

A	
Windscreen wipers	
Radio	180W
Depth sounder	
GPS	36 W
Searchlight	
Alarm system	
Refrigerator	
VHF	72 W
Σ	288W < 336W ☺

and

B	
Cigarette lighter socket (standard)	
Various lighting	10W
Horn	
Various electronic equipment	
Shower pump	48 W
Max. rated power	58W (< or = 102W)

CONCLUSION



Example 2

You wish to add:

- A 60W VHF set,
- A 36W GPS unit,
- A 180W radio,
- A 120W searchlight.

A	
Windscreen wipers	
Radio	180 W
Depth sounder	
GPS	36 W
Searchlight	120W
Alarm system	
Refrigerator	
VHF	60 W
Σ	396W > 336W ☹

and

B	
Cigarette lighter socket (standard)	
Various lighting	
Horn	
Various electronic equipment	
Shower pump	
Max. rated power	0 W (< or = 102W) ☺

CONCLUSION



INSTALLATION AND CIRCUIT – CONNECTING OPTIONS

Example 3

You wish to add:

- A 60W GPS unit,
- A 180W radio,
- A 120W horn.

A	
Windscreen wipers	
Radio	180 W
Depth sounder	
GPS	60 W
Searchlight	
Alarm system	
Refrigerator	
VHF	
Σ	240W < 336W ☺

and

B	
Cigarette lighter socket (standard)	
Various lighting	
Horn	
Various electronic equipment	120W
Shower pump	
Max. rated power	120W (> 102W) ☹

CONCLUSION

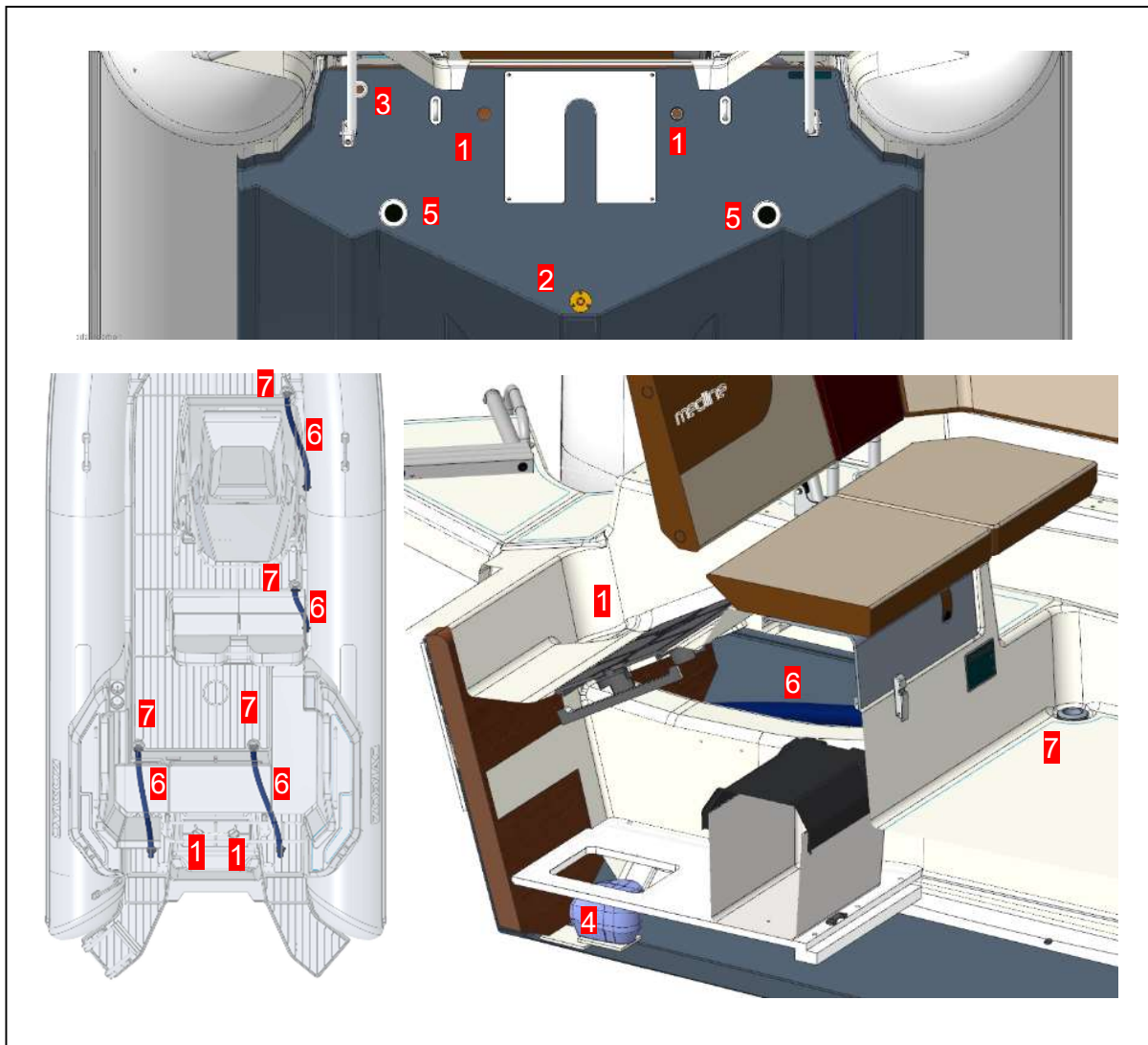


NOTE: Some vendors will give you the amperage instead of the power consumption. In DC (as is the case here), simply multiply this figure by 12 to obtain the power level.

INSTALLATION AND CIRCUIT – DRAINAGE

7. DRAINAGE INSTALLATIONS

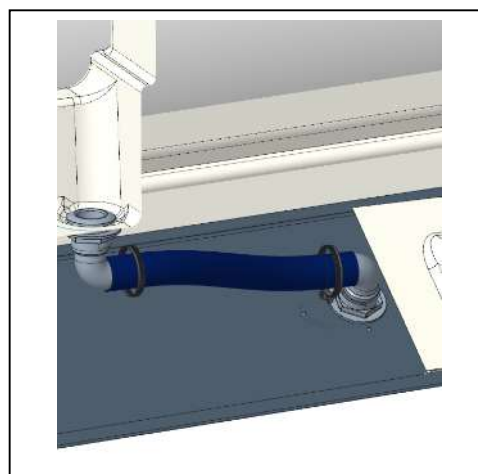
7.1. Functional component description:



Number	DESCRIPTION
1	Engine trough outlet
2	Hull outlet
3	Bilge pump outlet
4	Bilge pump
5	High flow dump outlets with no-return valve
6	Drain pipes
7	Drain heads


7.2. Draining water from the deck

The boat is self-draining and it is equipped with a rainwater drainage network: two drains in the deck, one forward of the console and a second one forward of the bolster. They are both linked to a drain pipe that passes through the hull. Two other drains in the aft deck are linked to dump outlets in the transom.



7.3. Bilge pump:

USE

The bilge pump works independently of the battery switch. The control switch  is always under power.

○ Automatic operation (fixed position): in this position, the bilge pump operates automatically. The light is on.

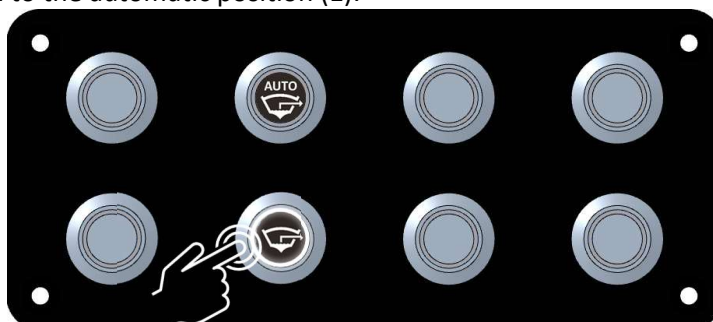


When moored, even for months at a time, it is normal to see the bilge pump light on. This light will not discharge your battery.

○ Off: in this position (fixed position), the bilge is off. The light is off.

This position should almost never be used, unless the boat is out of the water and under cover.

○ Always on: the button must remain pressed for always on operation. As soon as you release it, the button will return to the automatic position (1).



INSTALLATION AND CIRCUIT – DRAINAGE

ZODIAC recommends using a canvas cover or boat cover to stop water from entering when it rains.

Make sure that your drainage system is working (lines not blocked, caps off, automatic mode bilge pump operation, battery charged).

**WARNING**

WHEN MOORED, SET THE BILGE PUMP SWITCH TO THE AUTOMATIC OPERATION POSITION.

**CAUTION!**

THE BILGE PUMP SYSTEM IS NOT DESIGNED TO COPE WITH THE AMOUNT OF WATER COMING FROM A BREACH IN THE HULL. IT IS UP TO THE BOAT OWNER TO HAVE BAILING EQUIPMENT ONBOARD TO AVOID ANY ACCIDENTAL LOSS OF THE BOAT.



CAUTION!

REGULARLY CHECK BILGE PUMP OPERATION (REFER TO THE INSTRUCTIONS) AND CLEAN THE SUCTION POINTS TO REMOVE ANY DEBRIS THAT MAY BUILD UP AND OBSTRUCT THEM.

Your pump can handle a flow rate of approx. 45 litres per minute. It is accessible through the aft locker.

7.4. Hull outlet:



Boat out of the water (on a trailer, cradle, etc.)...



OPEN POSITION, OUTLET CAP REMOVED.

Boat in the water...



**CLOSED POSITION, OUTLET CAP IN PLACE.
(ALWAYS ENSURE THAT THE OUTLET CAP IS PROPERLY CLOSED/TIGHT).**

INSTALLATION AND CIRCUIT – STEERING

8. STEERING

Follow the steering manufacturer's recommendations (installation, use and maintenance).

For optimum use of your boat, please refer to your dealer.

9. FIRE



WARNING

- **WE RECOMMEND THAT YOU ALWAYS HAVE A FIRE EXTINGUISHER ONBOARD. ALWAYS COMPLY WITH THE APPLICABLE LAWS IN YOUR COUNTRY.**
- **NEVER PLACE INFLAMMABLE MATERIALS CLOSE TO, OR ABOVE COOKING APPLIANCES.**

The boat is delivered without a fire extinguisher. It is your responsibility to ensure full compliance with the regulations that apply in your place of registration. When in service, the boat should be equipped with portable fire extinguishers.

We recommend keeping a fire extinguisher in the aft locker or in the console.

Always make sure that the bilges are kept clean and regularly check that there is no build up of fuel vapour or any fuel leaks.

Never leave the boat unsupervised when cooking and/or heating appliances are operating.

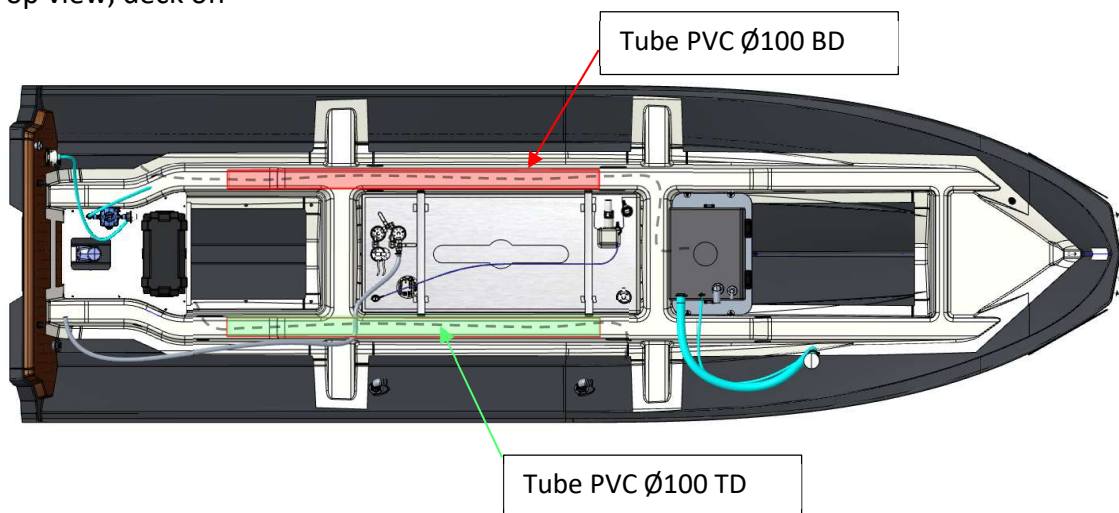
Never smoke while handling fuel or gas.

Never interfere with safety features, e.g. full cut-off valves, electrical system switches.

Never fill the fuel tank with the engine running or when cooking appliances are operating.

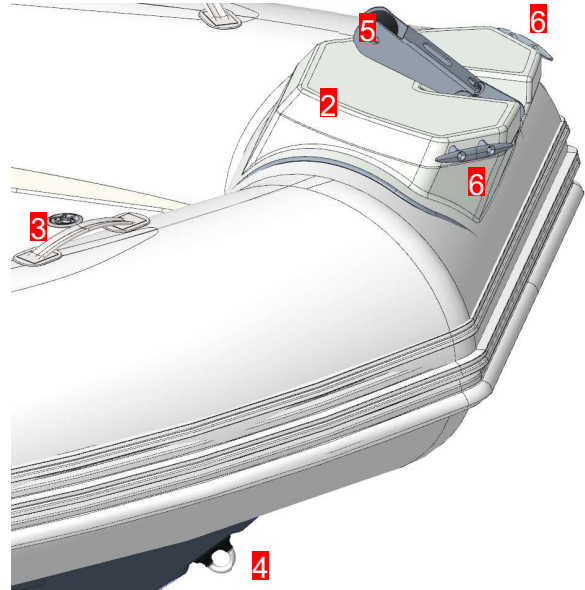
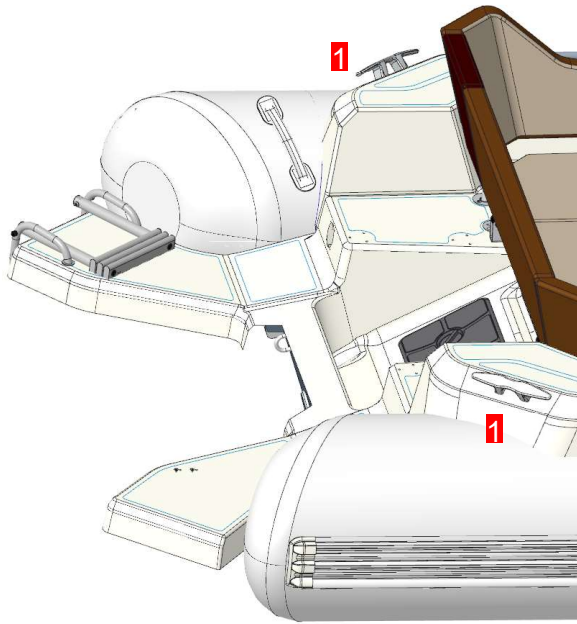
10. PROTECTIVE SHEATHS

Top view, deck off



INSTALLATION AND CIRCUIT – Mooring / Docking

11. MOORING / DOCKING

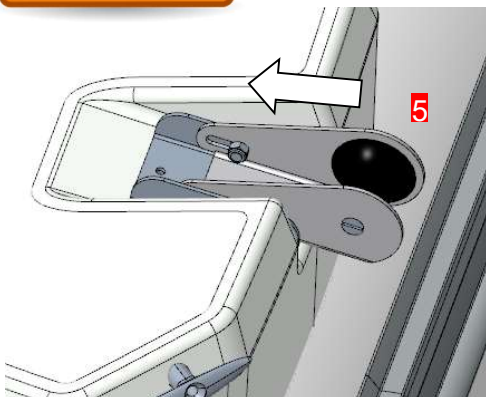


Number	DESCRIPTION
1	Stern cleats
2	Polyester roller with stainless mount
3	Mooring locker
4	Bow mooring eye
5	Sheave wheel
6	Bow cleats

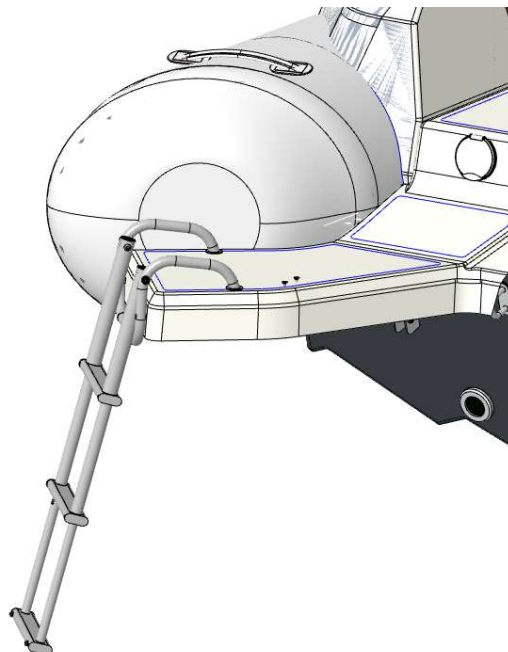
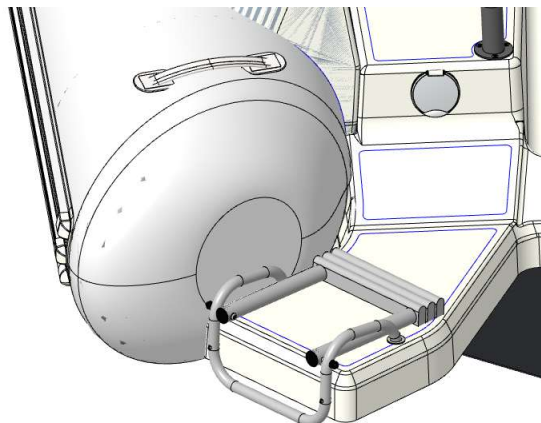


WARNING

- PERMANENT MOORING MUST USE THE BOW MOORING EYE AT THE FRONT OF THE BOAT.
- CHOOSE YOUR MOORING LINE TO MATCH THE LENGTH AND WEIGHT OF YOUR VESSEL.



MOVE THE SHEAVE WHEEL BACK TO LOCK IT

INSTALLATION AND CIRCUIT – Returning on board**12. RETURNING ON BOARD****DANGER!**

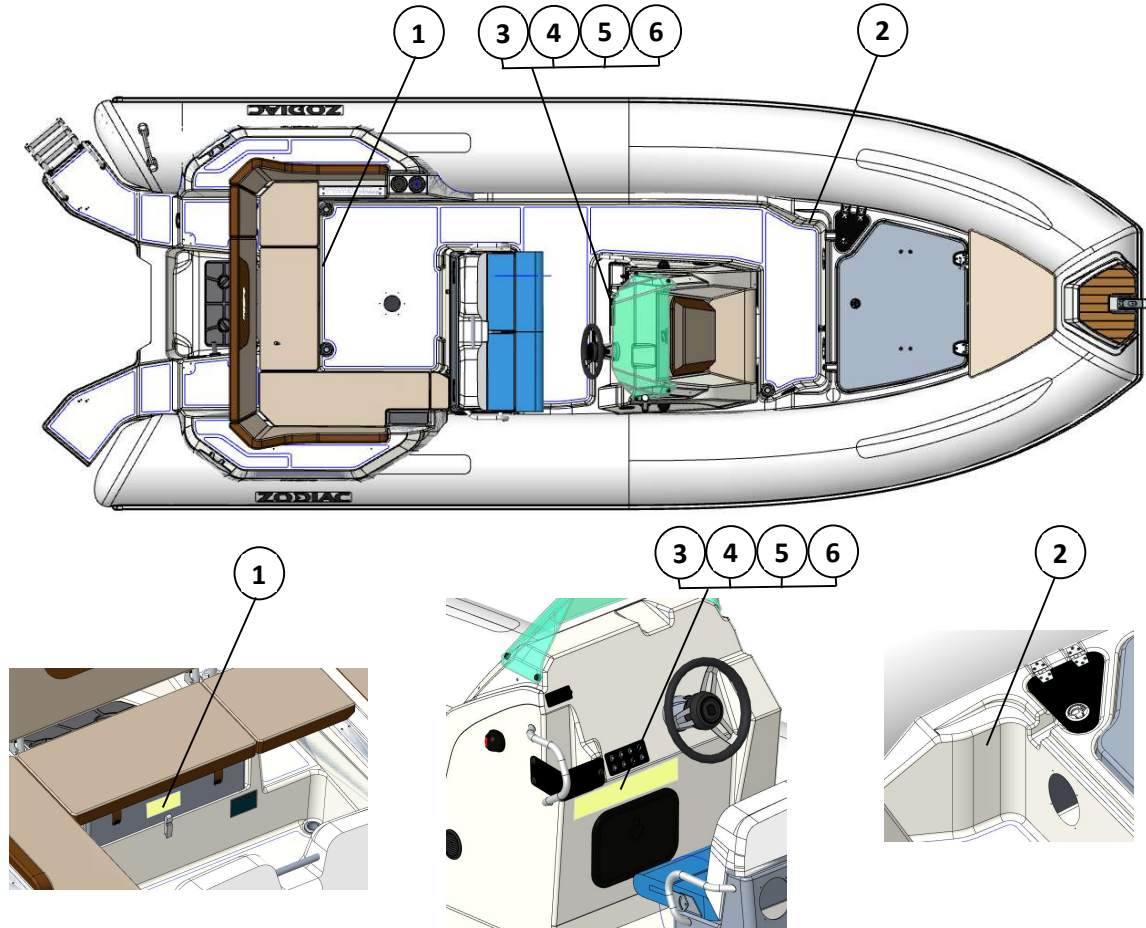
ALWAYS MAKE SURE THAT THE ENGINE IS SWITCHED OFF BEFORE ANYONE CLIMBS BACK ON BOARD USING THE STERN LADDER.

**WARNING**

WHEN THE BOAT IS OPERATED ALONE AND WHEN THE BOARDING LADDER CANNOT BE DEPLOYED FROM THE WATER, IT MUST BE LEFT IN PLACE FULL TIME.

13. WARNING AND SAFETY STICKERS

13.1. STICKER POSITIONS



SIGNAGE

13.2. STICKER DESCRIPTIONS



⚠ WARNING	⚠ AVERTISSEMENTS
<ul style="list-style-type: none"> • DO NOT TOUCH BATTERY TERMINALS (SHOCK AND ACID HAZARDS) • DISCONNECT BOTH LEADS BEFORE REMOVING BATTERY • CONNECT RED LEAD TO POSITIVE (+) TERMINAL • CONNECT BLACK LEAD TO NEGATIVE (-) TERMINAL 	<ul style="list-style-type: none"> • NE PAS TOUCHER LES TERMINAUX DE LA BATTERIE (RISQUE DE CHOC ELECTRIQUE ET DE CONTACT AVEC L' ACIDE DE LA BATTERIE) • DEBRANCHER LES 2 FILS DE SORTIE AVANT DE RETIRER LA BATTERIE • RELIER LE CABLE ROUGE A LA BORNE (+) • RELIER LE CABLE NOIR A LA BORNE (-)



⚠ WARNING	⚠ AVERTISSEMENTS
<p style="text-align: center;">GASOLINE IS HIGHLY INFLAMMABLE AND EXPLOSIVE</p> <ul style="list-style-type: none"> • STOP ENGINE BEFORE REFUELING • REFUEL IN WELL VENTILATED AREA • NEVER REFUEL WHILE SMOKING, AROUND SPARKS OR OPEN FLAME • AVOID SPILLING FUEL. WIPE UP ALL FUEL SPILLS IMMEDIATELY • LEAKING FUEL IS A FIRE HAZARD AND EXPLOSION HAZARD • INSPECT FUEL SYSTEM BEFORE EACH USE 	<p style="text-align: center;">L' ESSENCE EST TRES FORTEMENT INFLAMMABLE ET EXPLOSIVE</p> <ul style="list-style-type: none"> • ARRETER LE MOTEUR AVANT TOUT REMPLISSAGE. • NE PAS FUMER LORS DU REMPLISSAGE. • FAIRE LE PLEIN DANS UN ENDROIT VENTILE. • EVITER DE RENVERSER DU CARBURANT. ESSUYER IMMEDIATEMENT TOUTES LES FLAQUES DE CARBURANT CREES • LES FUITES DE CARBURANTS CONSTITUENT UN RISQUE D' INCENDIE ET D' EXPLOSION • VERIFIER LE CIRCUIT CARBURANT AVANT CHAQUE UTILISATION

⚠ CAUTION	⚠ ATTENTION
<p style="text-align: center;">IMPROPERLY TOWING YOUR BOAT CAN CAUSE SEVERE DAMAGE TO YOUR BOAT.</p> <ul style="list-style-type: none"> • NEVER TOW IN OPEN SEAS • NEVER TOW ABOVE 6 KNOTS 	<p style="text-align: center;">UN REMORQUAGE INAPROPRIE PEUT ENDOMMAGER VOTRE BATEAU</p> <ul style="list-style-type: none"> • NE PAS REMORQUER EN PLEINE MER • NE PAS REMORQUER A PLUS DE 6 NOEUDS

⚠ WARNING	⚠ AVERTISSEMENT
DO NOT LIFT THE BOAT WITH PASSENGERS ON BOARD	NE PAS SOULEVER LE BATEAU AVEC DES PASSAGERS A BORD

⚠ DANGER	⚠ DANGER
<p style="text-align: center;">TO AVOID INJURY OR DEATH, SHUT OFF ENGINE WHEN NEAR SWIMMERS OR PRIOR TO USING SWIN PLATFORM AND BOARDING LADDER</p>	<p style="text-align: center;">POUR EVITER DES BLESSURES OU LA MORT, COUPER LE MOTEUR EN APPROCHANT DE NAGEURS, ET AVANT TOUTE UTILISATION DE LA PLATEFORME ARRIERE OU DE L' ECHELLE DE BAIN</p>

⚠ DANGER	⚠ DANGER
A FIRE EXTINGUISHER MUST BE CARRIED AT ALL TIMES	UN EXTINCTEUR DOIT ETRE DISPONIBLE EN PERMANENCE A BORD



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