



**Manuel du Propriétaire
Owner's Manual -Manuale del Proprietario
Eignerhandbuch- Manual del propietario**

Tome 2 - Volume 2- Teil 2 - Tomo 2

YACHTLINE

490

Edition 1

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*Siehe Zodiac Nautic Garantiebedingungen

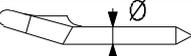
VOLUME 2
DESCRIPTION - BUOYANCY CHAMBER
PROPULSION SYSTEM
FITTING AND CIRCUITS
FIRE
SAFETY STICKERS

CONTENTS

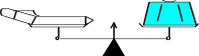
	PAGE
⇒ I - GENERAL DESCRIPTION	
I-1-Technical characteristics -----	3 - 4
I-2-Inventory -----	5 - 6
I-3-Location of parts -----	7 - 9
I-4-Handling-----	10 - 13
⇒ II - BUOYANCY CHAMBER	
-II-1 Fitting the buoyancy chamber on the hull-----	14
II-2-Fitting the protective flap-----	15
II-3-Inflation system-----	16
II-4-Pressure -----	16 - 18
⇒ III - PROPULSION SYSTEM	19
⇒ IV - INSTALLATION AND CIRCUITS	
IV-1-Fuel installation -----	20 - 24
IV-2-Electricity -----	25 - 30
IV-3-Connecting options-----	31 - 34
IV-4-Draining-----	35 - 37
IV-5-Anchoring/Mooring-----	38 - 39
⇒ V - FIRE	40
⇒ VI - SAFETY STICKERS	
V-1-Location of stickers -----	41
V-2- Description of labels-----	42 - 43

DESCRIPTION - TECHNICAL CHARACTERISTICS

I-1-TECHNICAL CHARACTERISTICS

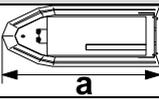
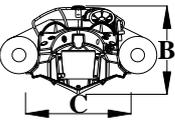
Dimensions		
	(m)	4.90
	(ft)	16' 1"
	(m)	2.98
	(ft)	9' 9"
	(m)	2.05
	(ft)	6' 9"
	(m)	1.05
	(ft)	3' 5"
	(m)	0.5
	(ft)	1' 8"

Design category	
 (Directive 94/25/EC)	C

Load		
 (ISO)		9
 (ABYC)		6 ⁽⁵⁾
 Maximum	Kg ⁽¹⁾	945
	lb. ⁽¹⁾	2083
	Kg ⁽²⁾	390
	lb. ⁽²⁾	860
 Compartment		5

(*): value may change.

Engine			
			
	Minimum recommended power	HP ⁽³⁾	50
		KW ⁽³⁾	38
	Maximum recommended power	HP	70
		kW	53
	Maximum allowed power	HP ⁽³⁾	90
		kW ⁽³⁾	68
 Maximum	Maximum engine weight	Kg	170
		Lbs	375

Dimensions		
	a ⁽⁴⁾	4.33 m
		14' 3"
	b ⁽⁴⁾	1.14 m
		3' 9"
	c ⁽⁴⁾	1.59 m
		5' 2"

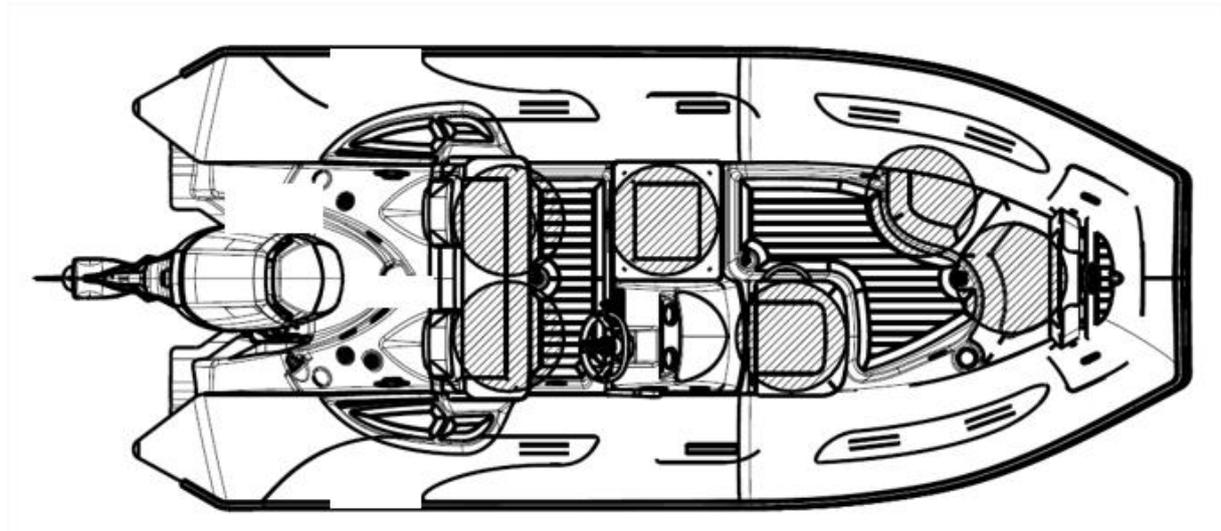
DESCRIPTION - TECHNICAL CHARACTERISTICS

NOTE	Dimension tolerance: +/- 4%
-------------	-----------------------------

NOTE	<p>(1) The maximum payload has been calculated according to ISO 6185 standards. We recommend that you exercise caution when the boat is at maximum capacity.</p> <p>(2) The weights indicated do not include any accessories</p> <p>(3) The recommended power corresponds to optimum operation of the boat's capabilities for an average load (4 people).</p> <p>(4) Hull dimensions without buoyancy chamber.</p> <p>Use the maximum authorized power with extreme caution (see "Recommended operating procedure" chapter of Volume 1 of the manual.)</p>
-------------	--

 WARNING	<p>THE MAXIMUM LOAD ON THE MANUFACTURER'S PLATE SHOULD NOT BE EXCEEDED. THE MAXIMUM LOAD INCLUDES THE WEIGHT OF THE ENGINE, FUEL, ACCESSORIES, PASSENGERS AND THEIR EQUIPMENT AND ANY OTHER TYPE OF LOAD.</p>
--	--

 WARNING	<p>DO NOT STORE FLAMMABLE PRODUCTS IN THE AFTER COMPARTMENT. IT IS STRICTLY FORBIDDEN TO STORE A JERRYCAN.</p>
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NOTE	<p>(5)  (ABYC) Number of places available according to the ABYC standard.</p>
-------------	--

DESCRIPTION - INVENTORY

I-2-INVENTORY

HULL
• Polyester hull
• Non-slip counter-molded deck
• Added transom and "flap" hull shape
• Console with storage
• 1 Bow ring
• 1 Anchor locker + locker in front of console + front port locker
• 1 Aft locker
• 6 Upholstered seats
• 2 aft anchoring cleats
• 1 pulpit with cleat and navigation lights
• 1 Folding and removable mast for white light
• 1 Deck light
• 3 Hinged lifting chain plates
• 2 mooring rings
• 1 hull drain hole

BUOYANCY CHAMBER
• Removable buoyancy chamber
• Hypalon neoprene fabric 1100 decitex
• Easy push valves
• Wide section rubbing strake
• 8 Handles
• Cone reinforcements

CONSOLE
• Steering wheel and remote steering control
• 3 Switches
• 1 cigar lighter connector
• Glove compartment

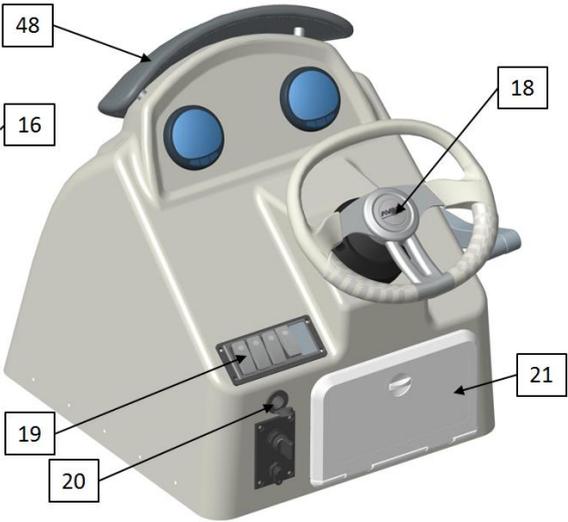
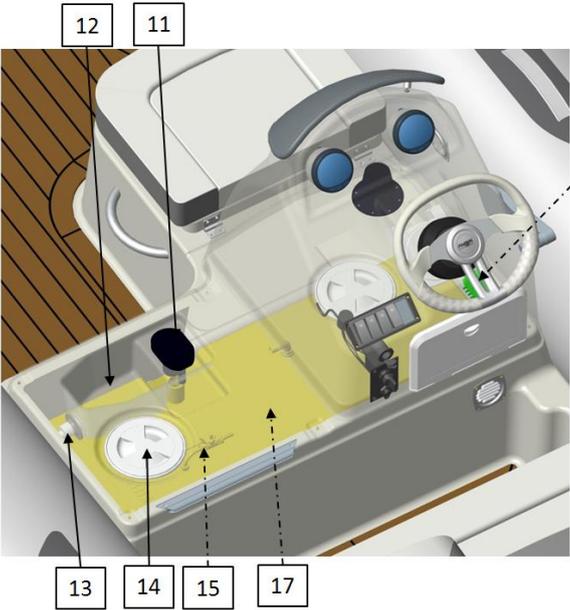
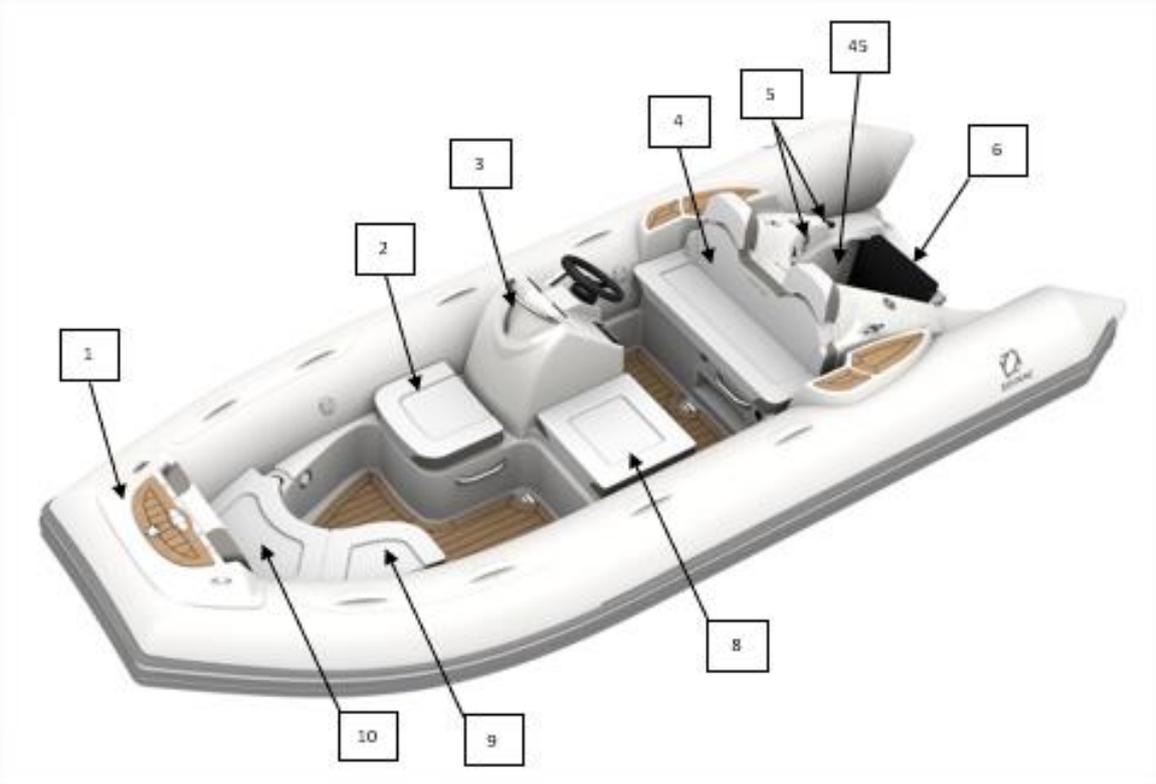
DESCRIPTION - INVENTORY

STANDARD EQUIPMENT
• 1 Fixed tank (85 litres + fuel gauge transmitter + water/fuel separator) with vent and anti-overflow device
• Navigation lights and deck light
• 1 battery tray
• 1 battery isolation switch
• Pre-fitted electric equipment to add extra accessories (*)
• 1 Bilge pump
• 2 paddles
• 1 Foot inflator
• 1 Repair kit
• 1 Owner's manual (2 volumes)
• 1 Pressure gauge cap

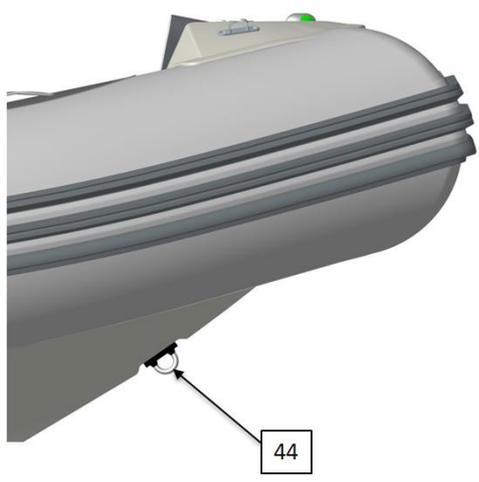
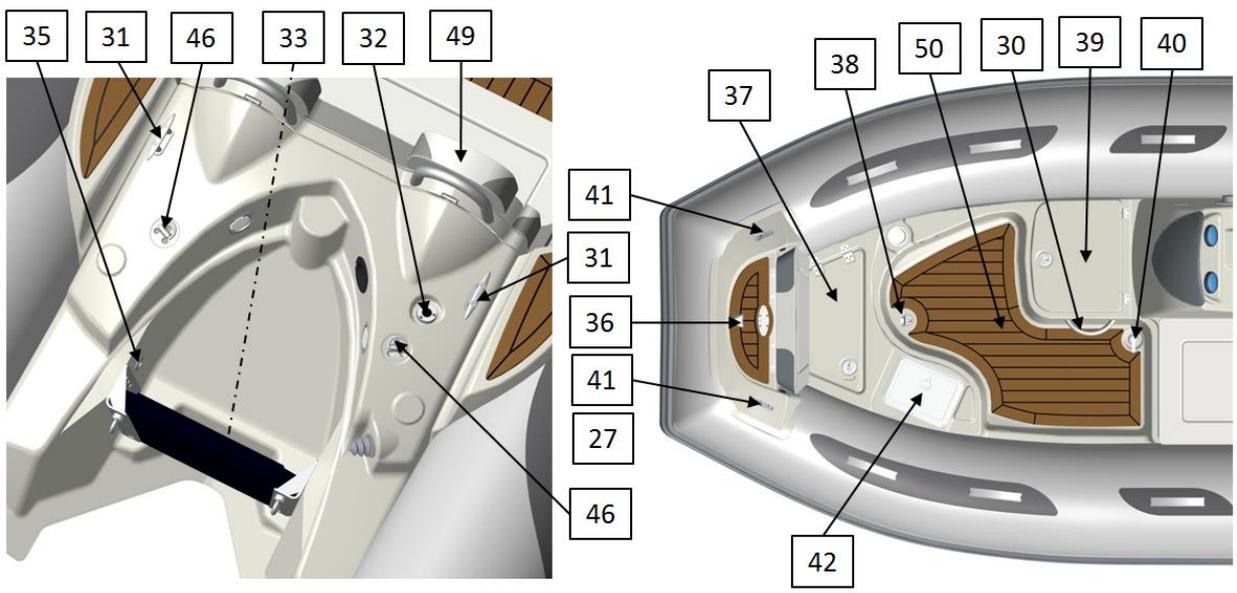
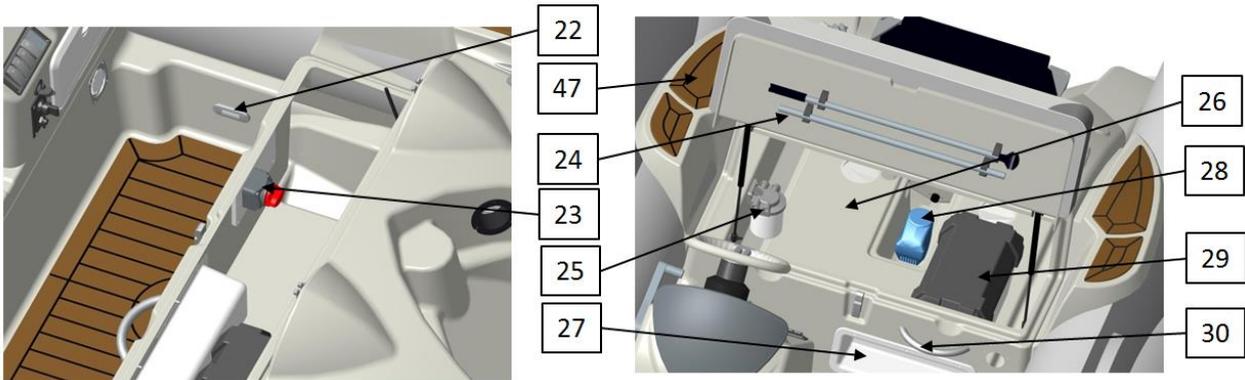
OPTIONAL ACCESSORIES
• Lifting kit
• Boarding ladder
• Rear seatback
• Synthetic teak deck
• Wind deflector
• Ski mast
• Turboswing

DESCRIPTION – LOCATION OF ITEMS

I-3- LOCATION OF ITEMS



DESCRIPTION – LOCATION OF ITEMS



DESCRIPTION – LOCATION OF ITEMS

ITEM REF.	DESCRIPTION
1	Front polyester step
2	Cushion in front of console
3	Console
4	Seat + beat back
5	Deck seals
6	Engine panel
7	Buoyancy chamber
8	Cushion on console side
9	Forwards port cushion
10	Locker cushion
11	Filler cap with integrated vent
12	Fuel retention container
13	Fuel retention container drain hole
14	Tank maintenance access hatch
15	Fuel circuit shut-off valve
16	Fuse holder
17	Tank
18	Steering wheel + steering
19	Switches
20	Cigar lighter
21	Glove compartment
22	Deck light
23	Circuit-breaker
24	White light holder
25	Water/fuel separator filter
26	After locker
27	Fire extinguisher bracket
28	Bilge pump
29	Battery tray
30	Grab handles
31	Aft anchoring cleats
32	Base of white light mast + while light
33	Scupper
34	Mooring ring
35	Overflow outlet.
36	Navigation lights
37	Anchor locker
38	Bow lifting eye
39	Locker in front of console
40	Deck bailer + plugs
41	Fairlead
42	Front port locker
43	Forward cleat
44	Bow ring
45	Bilge pump drainage
46	Aft lifting rings
47	Polyester step
48	Wind deflector
49	Rear seatback
50	Synthetic teak deck

DESCRIPTION - HANDLING

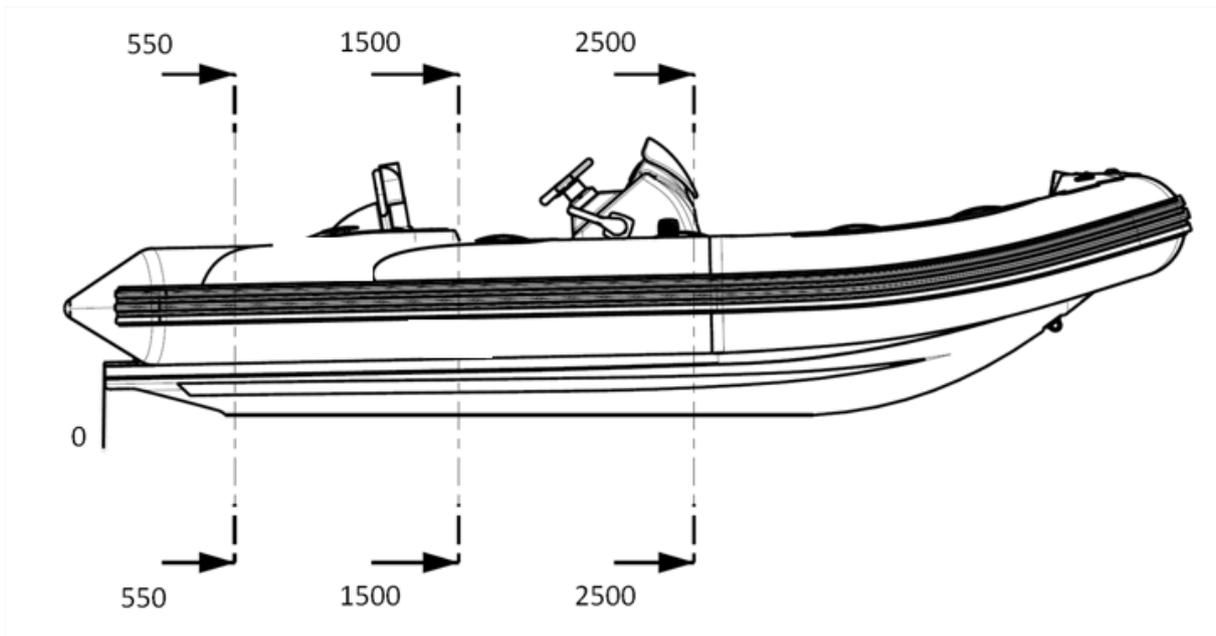
I-4-Handling

I-4-1-Transportation

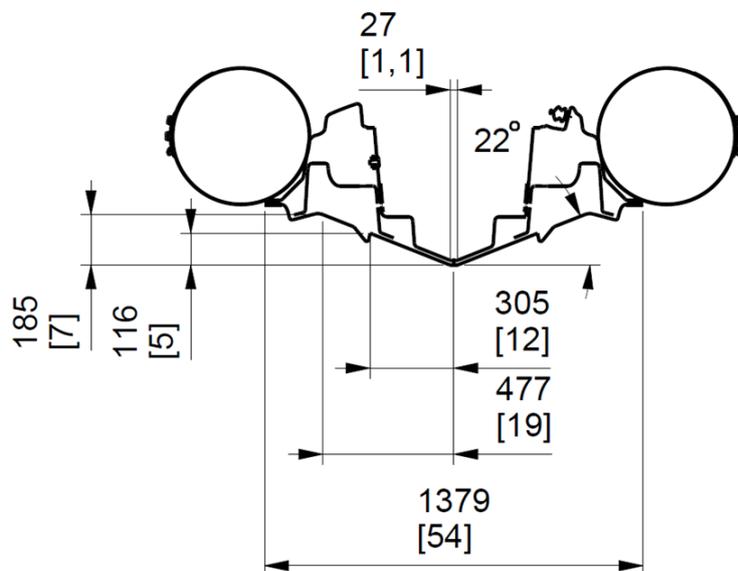
- The trailer installation recommendations are specified in VOLUME I of the owner's manual.

I-4-2-Storage

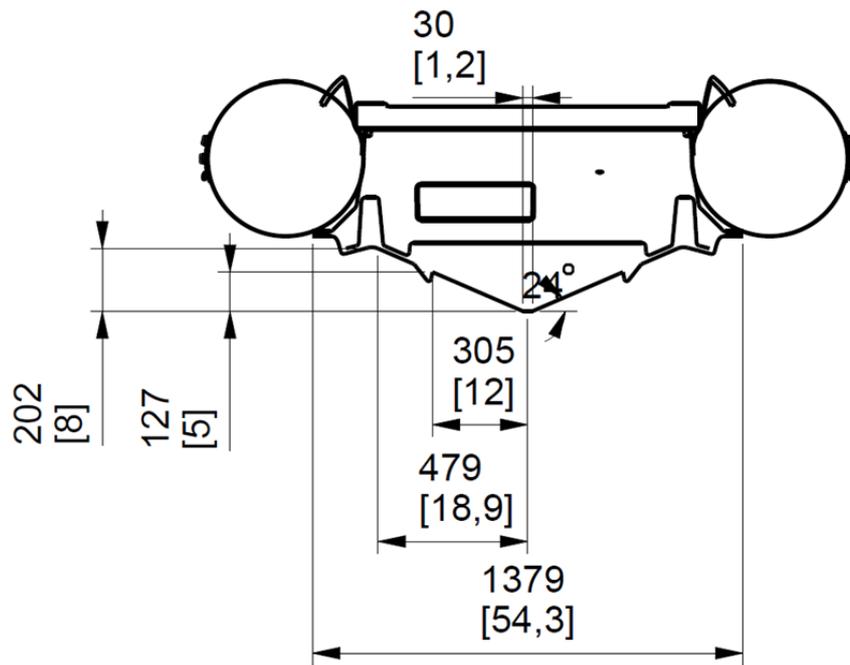
 WARNING	<p>THE BOAT MUST REST ON THE BOW LINE. THE POSITION OF THE STORAGE CRADLES IS SHOWN BELOW.</p>
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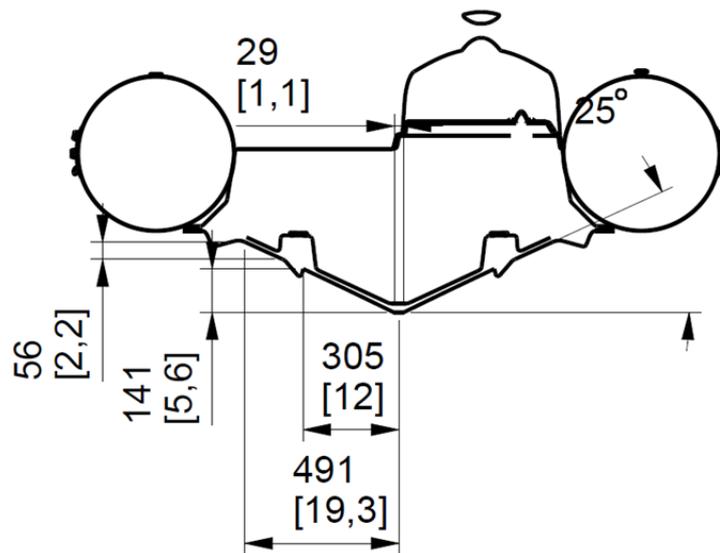
COUPE 550



COUPE 1500



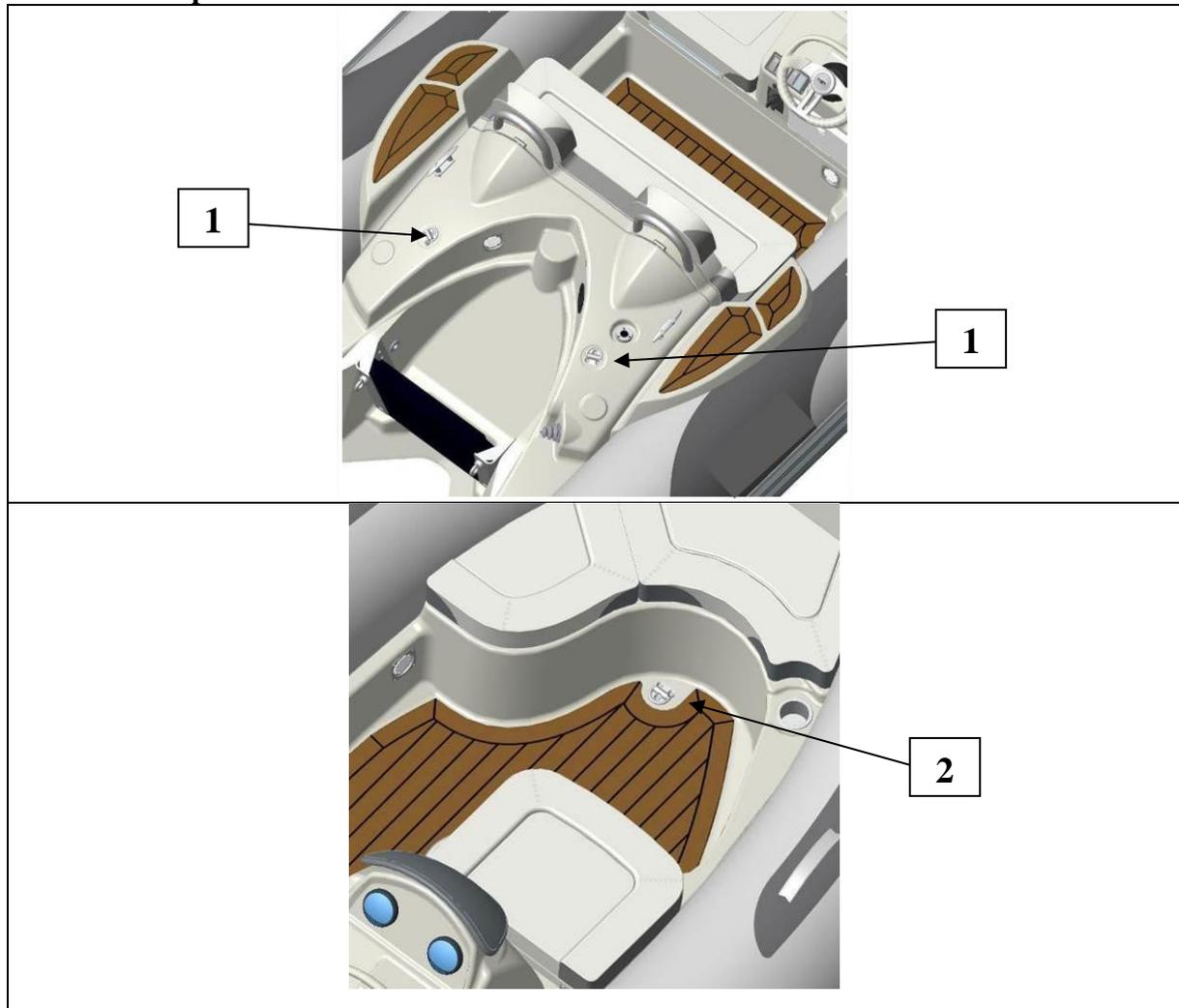
COUPE 2500



DESCRIPTION - HANDLING

I-4-3-Lifting/Davit installation

I-4-3-1-Description of essential functional items

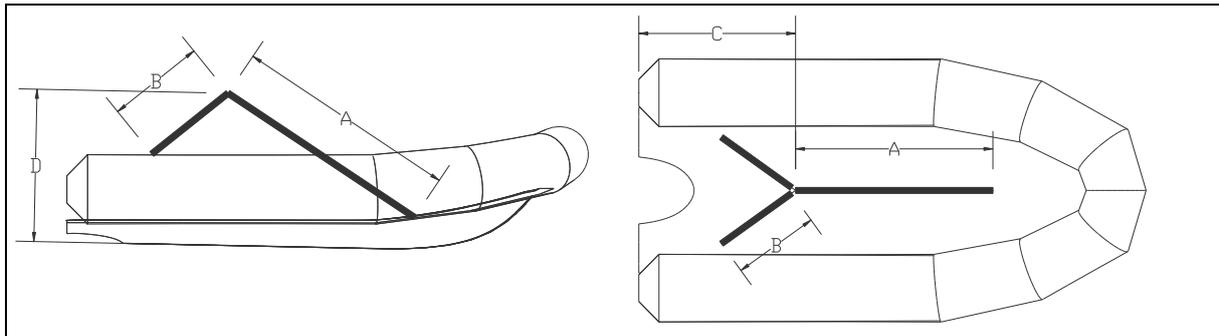


1	Aft lifting rings
2	Bow lifting eye

DESCRIPTION - HANDLING

I -4-3-2-Lifting

 WARNING	<p>THE 3 POINT LIFTING SLING IS AVAILABLE AS AN OPTION; YOU MUST ONLY USE AN ZODIAC SLING FOR LIFTING.</p>
---	---



These values are an example		A	B	C	D
490 YL	(m)	2.5	1	1.372	1.489
	(ft)	8' 2"	3' 28"	4' 5"	4' 9"

 WARNING	<p>NO PASSENGERS ON BOARD WHILE LIFTING</p>
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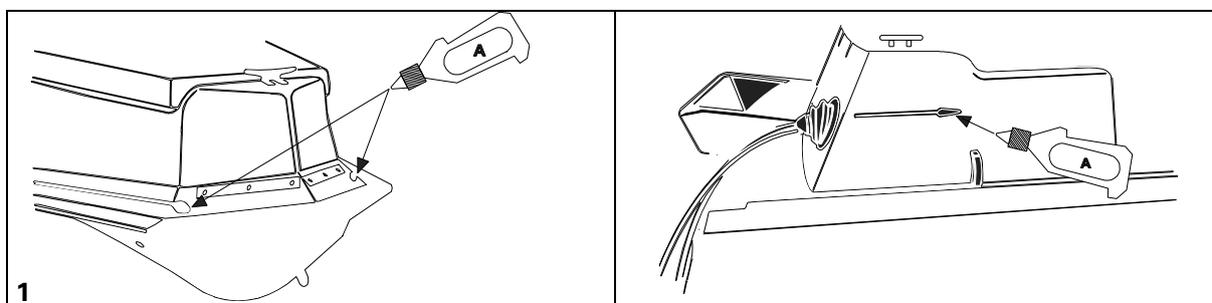
 WARNING	<ul style="list-style-type: none"> • ALL EQUIPMENT MUST BE UNLOADED FROM THE BOAT FOR LIFTING OR DAVIT HANDLING. • THE DECK BAILER AND THE DRAIN HOLE MUST BE OPEN TO EVACUATE ANY RAIN WATER IN THE COCKPIT. <p><i>* see chapter I-3 "Location of items"</i></p>
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	<p>LIFTING: USE THE AFT LIFTING RINGS (1) AND THE FORWARD LIFTING RING (2).</p>
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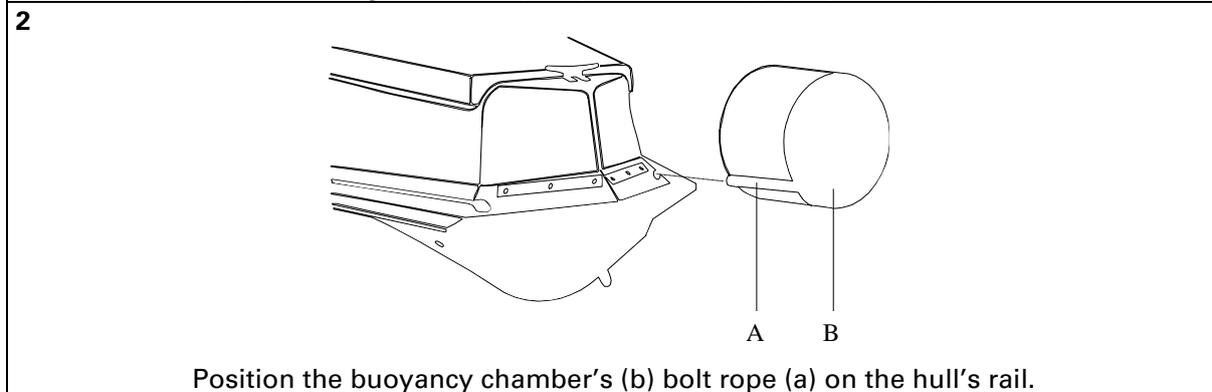
BUOYANCY CHAMBER – INSTALLING THE BUOYANCY CHAMBER ON THE HULL

II-1-FITTING THE BUOYANCY CHAMBER ON THE HULL

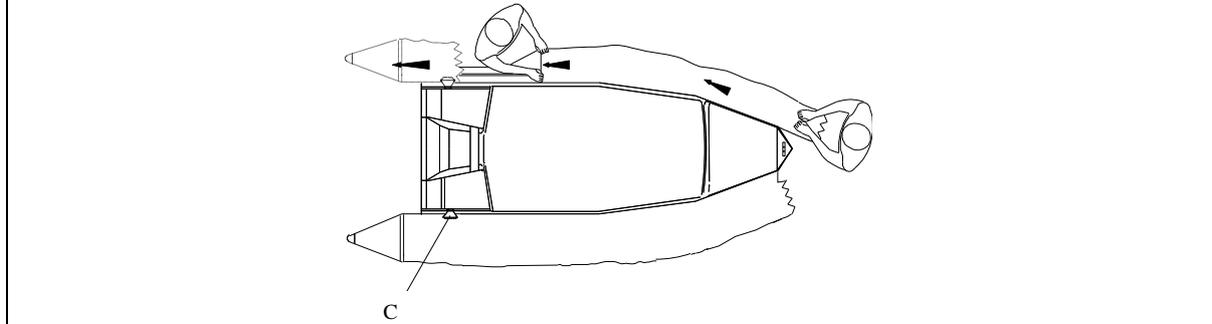
	IF THE BUOYANCY CHAMBER WAS STORED AT A TEMPERATURE BELOW 0°C / 32°F, LEAVE IT AT 20°C / 68°F FOR 12 HOURS BEFORE UNFOLDING.
	YOU CAN INFLATE THE NON-INSTALLED BUOYANCY CHAMBER (PRESSURE 240MB) AND LET IT STABILIZE FOR AROUND ONE HOUR. THEN DEFLATE IT.
NOTE:	The buoyancy chamber is fitted to the hull with the buoyancy tube deflated .



1 To facilitate the positioning of the buoyancy chamber, apply liquid soap (A) to the hull rails.



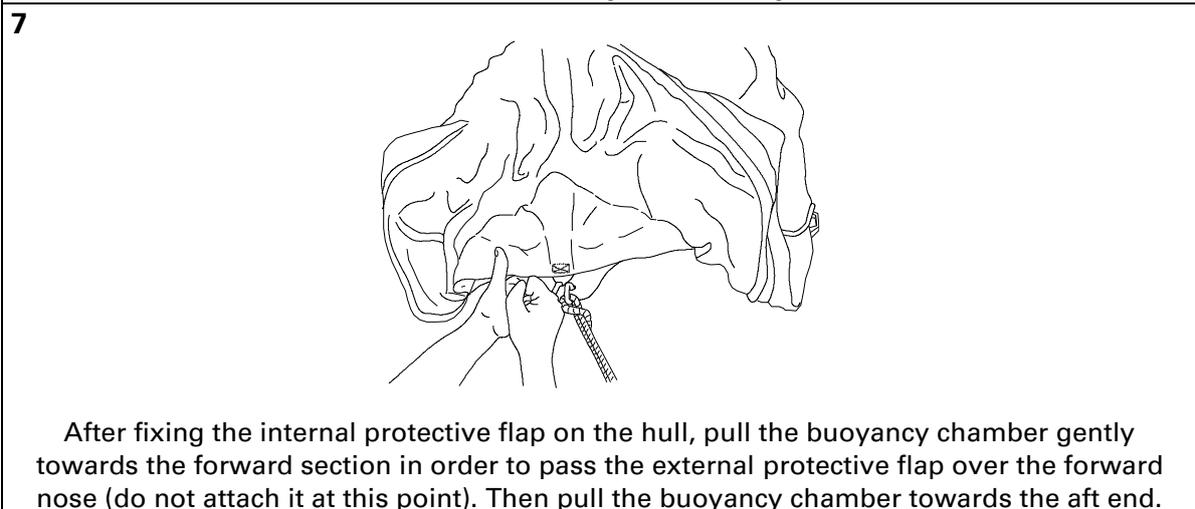
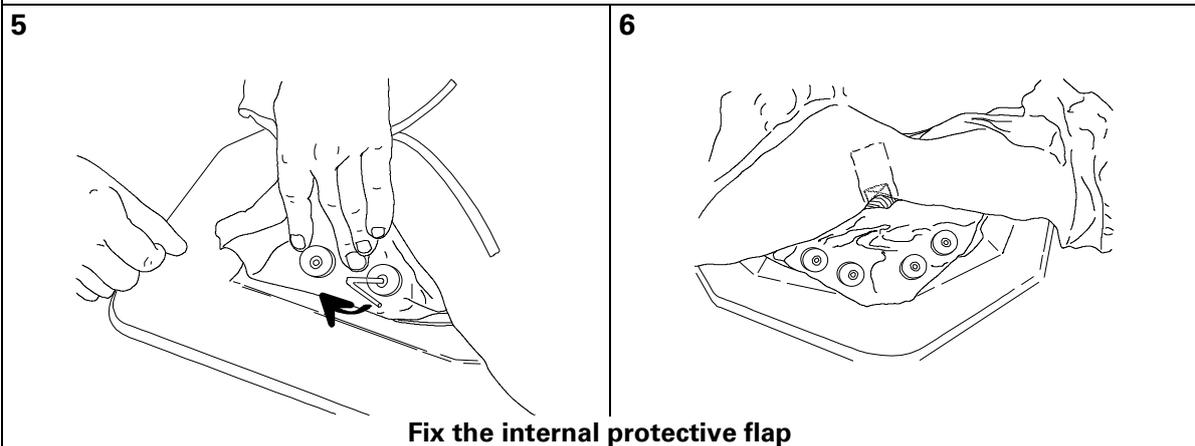
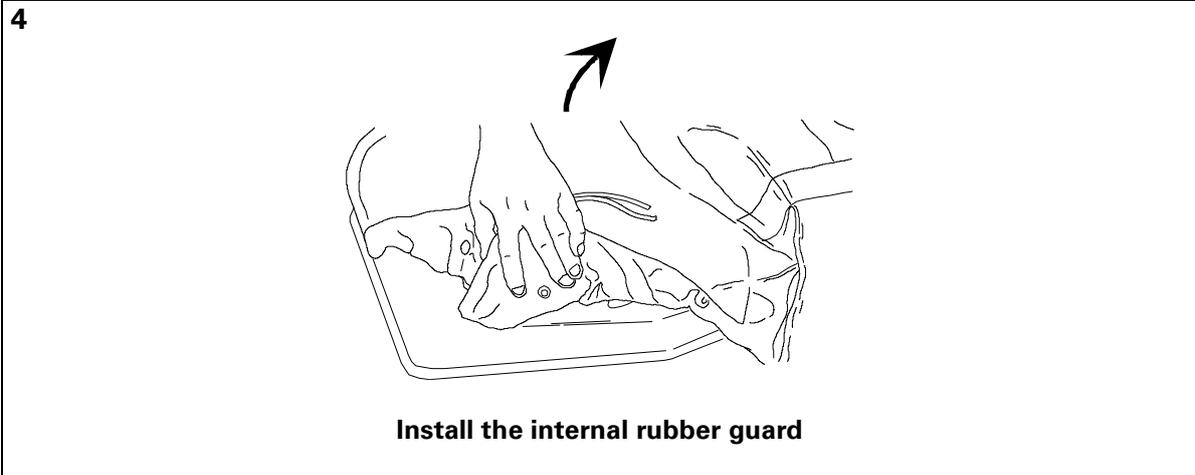
2 Position the buoyancy chamber's (b) bolt rope (a) on the hull's rail.



- Pull the buoyancy chamber towards the boat's stern. (do not forget to guide the upper bolt rope (C).
- Repeat for the other side of the buoyancy chamber

BUOYANCY CHAMBER – FIXING THE PROTECTIVE FLAP

II-2- ATTACHING THE PROTECTIVE FLAP



NOTE:

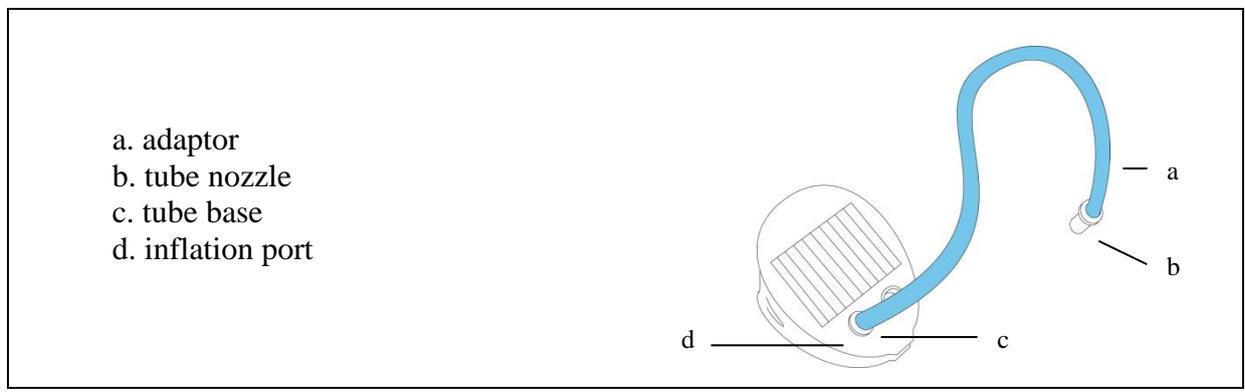
The **external** protective flap should be fixed on **after the buoyancy chamber has been inflated**

THEN BEGIN INFLATION

BUOYANCY CHAMBER – INFLATION SYSTEM

II -3-INFLATION SYSTEM

THE INFLATION PUMP



"EASY - PUSH" VALVES

To change position	in inflating position	in deflating position
 Push	 The membrane is closed, the plunger is up	 The membrane is open, the plunger is down

BUOYANCY CHAMBER- PRESSURE

INFLATING THE ENGINE

Activate all valves in the inflation position.

Attach the hose connector to the inflation pump inflation port.
 To inflate your boat properly, the inflation pump should be correctly placed on the ground.
 The boat inflates rapidly if the inflation pump is used smoothly and without haste.

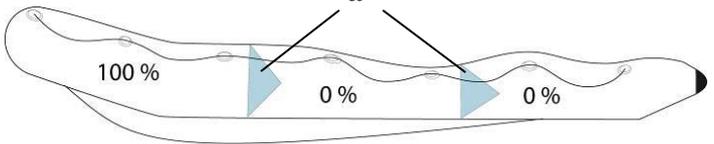


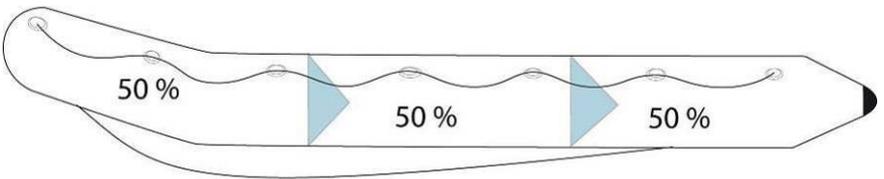
DO NOT USE A COMPRESSOR OR COMPRESSED AIR CYLINDER.

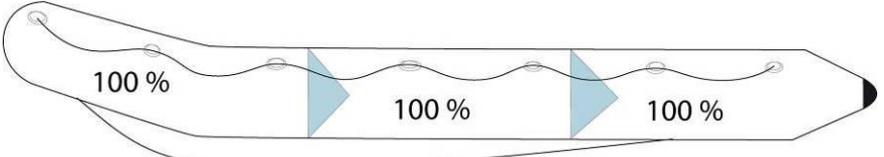
BUOYANCY CHAMBER - PRESSURE

INFLATING THE BUOYANCY CHAMBER

- Place the adapter corresponding to the diameter of the semi built-in valve at the inflation pump hose nozzle.
- Inflate the buoyancy chamber, **balancing the pressure between the different compartments until the partitions (a) are no longer visible (pressure = 240 mb)**

	Never put a compartment under pressure while the others are still fully deflated.	
---	---	--

	1	
---	---	--

	2	
---	---	--

When you have finished inflating: Screw on the inflation valve plugs.

NOTE:	A slight loss of air is normal before the cap is screwed on. Only the plugs provide final airtightness.
--------------	--

BUOYANCY CHAMBER - PRESSURE

CORRECT PRESSURE

The correct pressure for the buoyancy chamber is 240 mb/ 3.4 PSI.

The ambient temperature of the air or the water proportionally influences the internal pressure of the buoyancy chamber:	Ambient temperature	Buoyancy chamber internal pressure
	+1°C	+4 mb / 0.06 PSI
	-1°C	-4 mb / 0.06 PSI

Thus, it is important to anticipate:
Check and adjust the pressure of inflatable compartments (by inflating or deflating) depending on the temperature (particularly when temperature variations are high between the morning and evening in hot regions) and check that the pressure does not leave the recommended pressure zone (from 220 to 270 mb / green zone).

LOW PRESSURE RISK:

EXAMPLE: Your boat is exposed to direct sunlight on the beach (temperature=50°C) at the recommended pressure (240 mb/3.4 PSI). When you launch it (temperature=20°C), the temperature and internal pressure of the inflatable compartments will drop simultaneously (up to 120 mb) and **YOU WILL THEN NEED TO REINFLATE** until you regain the millibars lost due to the difference between the ambient air and water temperatures. It is normal to observe a drop in pressure at the end of the day when the outdoor temperature drops.

RISK OF OVERPRESSURE:

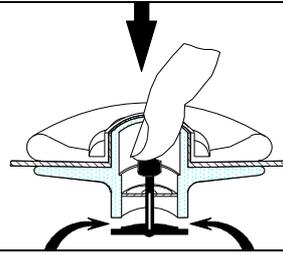
EXAMPLE: Your boat is inflated to its recommended pressure (240 mb/3.4 PSI) at the beginning or end of the day (low outside temperature = 10°C). Later in the day, your boat is left in the sun on the beach or on the deck of a boat (temperature = 50°C) The temperature inside the inflatable compartments may rise to 70°C (particularly for dark buoyancy chambers), doubling the initial pressure (480 mb). **YOU WILL THEN NEED TO DEFLATE** the boat to return to the recommended pressure.

 WARNING	IF YOUR BOAT IS OVERINFLATED, THE PRESSURE WILL ABNORMALLY WEAR THE INFLATABLE STRUCTURE WHICH MAY LEAD TO A BREACH OF THE ASSEMBLY.
---	---

BUOYANCY CHAMBER - PRESSURE

CASES OF OVERPRESSURE

EASY - PUSH VALVE:
Release air by pressing the
valve plunger



PROPULSION SYSTEM

III - Propulsion system

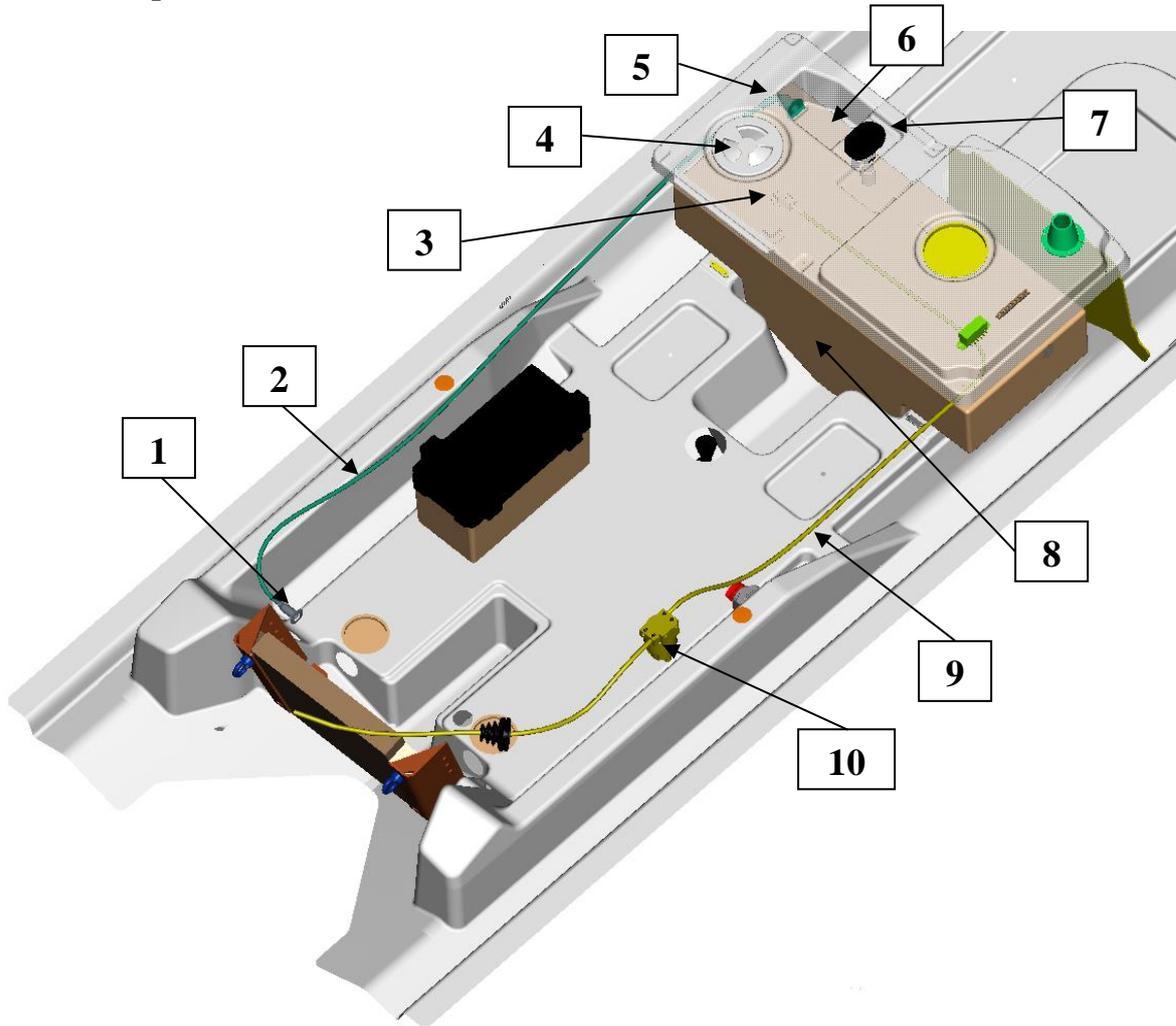
Comply with ZODIAC's recommendations and with the engine manufacturer's recommendations.

To get the best out of your boat, please consult your dealer.

INSTALLATION AND CIRCUIT - FUEL

IV-1-FUEL INSTALLATION

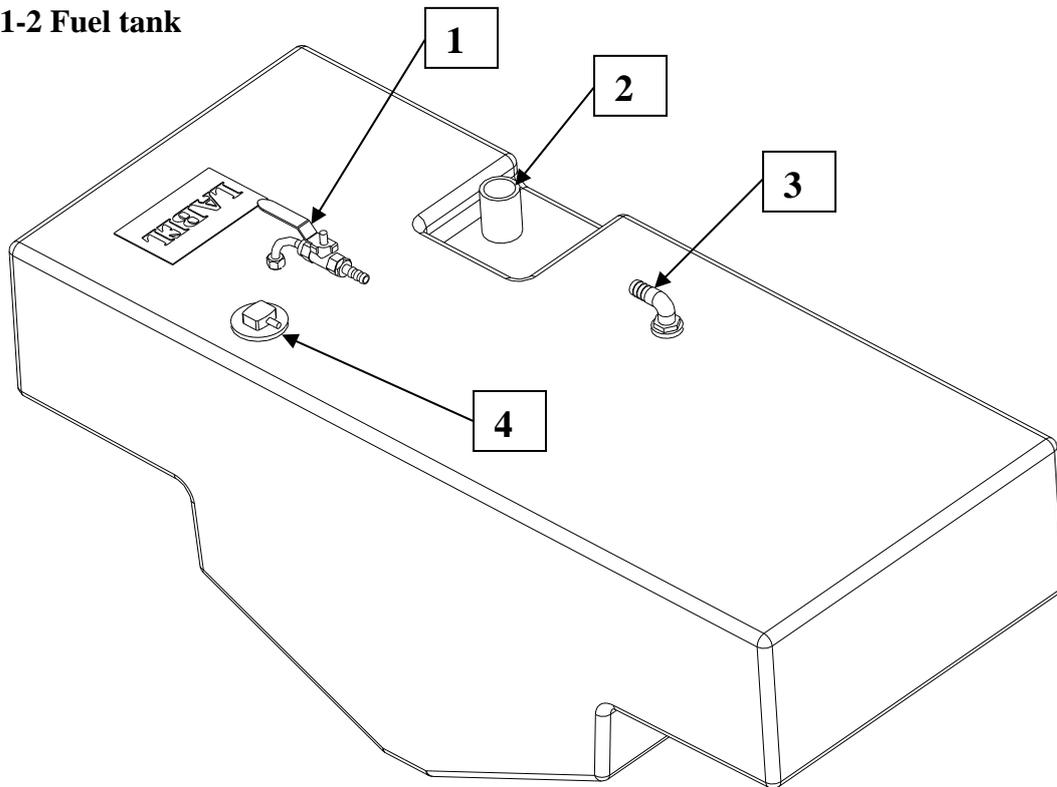
IV-1-1-Description of essential functional items



1	"Overflow" outlet
2	"Overflow" outlet
3	Fuel circuit shut-off valve
4	Tank maintenance hatch
5	Fuel retention container drain hole
6	Fuel retention container
7	Filler cap with integrated vent
8	Fuel tank
9	Fuel hose
10	Water/fuel separator filter

INSTALLATION AND CIRCUIT - FUEL

IV-1-2 Fuel tank



The tank is located under the steering console:

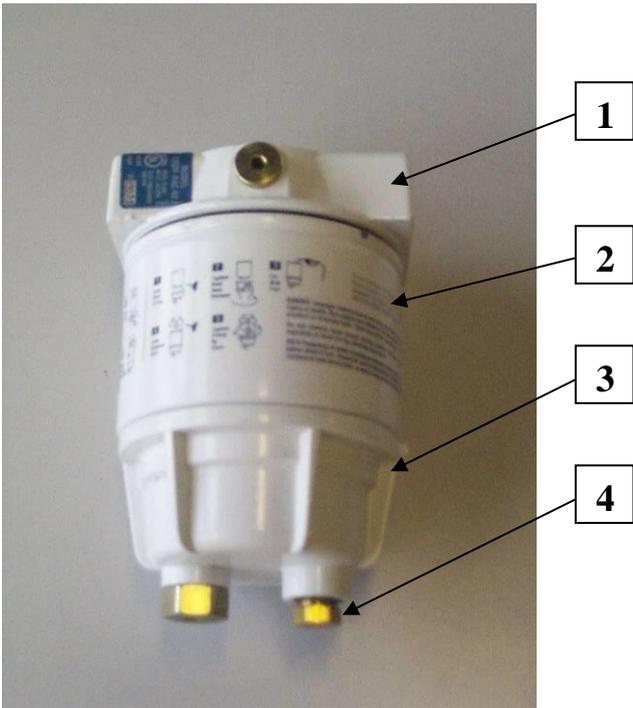
1	Opening/closing valve
2	Filling hole
3	Vent
4	Gauge transmitter

INSTALLATION AND CIRCUIT - TANK AND ACCESSORIES

IV-1-3-Fuel/water separator filter

NOTE:	In order to protect the engine, a water / fuel separating filter is placed on the engine's fuel supply circuit
--------------	---

The water/fuel separator filter is located in the aft locker, on the starboard partition:



1	Filter head, secured to boat
2	Replaceable filter cartridge
3	Metal bowl
4	Purge screw

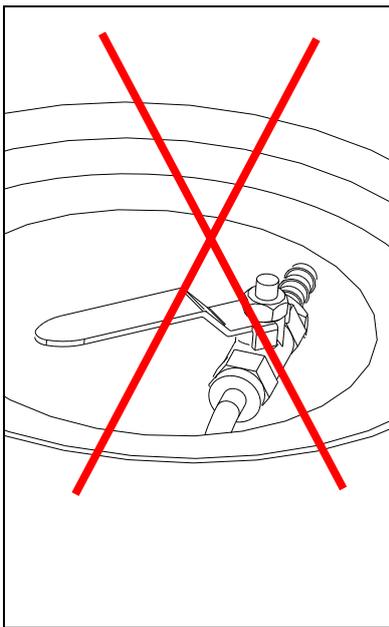
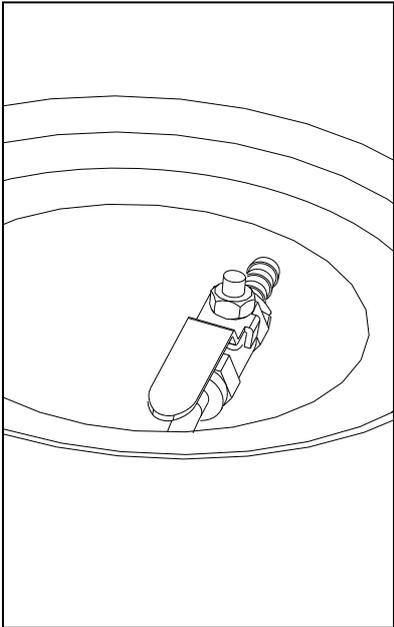
INSTALLATION AND CIRCUIT - TANK AND ACCESSORIES

IV-1-2-Use of essential functional items
IV-1-2-1- Using the fuel circuit closing valves

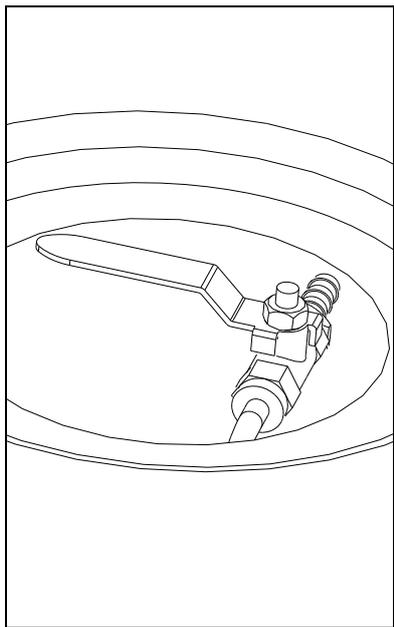
 WARNING	<p>IN THE EVENT OF A PETROL LEAK OR A FIRE, THE PETROL CIRCUIT CLOSING VALVE LOCATED ON THE TANK ENABLES THE TANK TO BE CUT OFF FROM THE PETROL CIRCUIT AND MUST REMAIN CLOSED.</p>
---	--

NOTE:	<ul style="list-style-type: none"> - When not using your boat, close the fuel circuit valve. - When you are going to use your boat, open the fuel circuit valve.
--------------	--

**Fuel circuit valve
petrol
Open**



**Fuel circuit valve
petrol
Closed**



IV-1-3-Maintenance

IV-1-3-1-Water / fuel separating filter

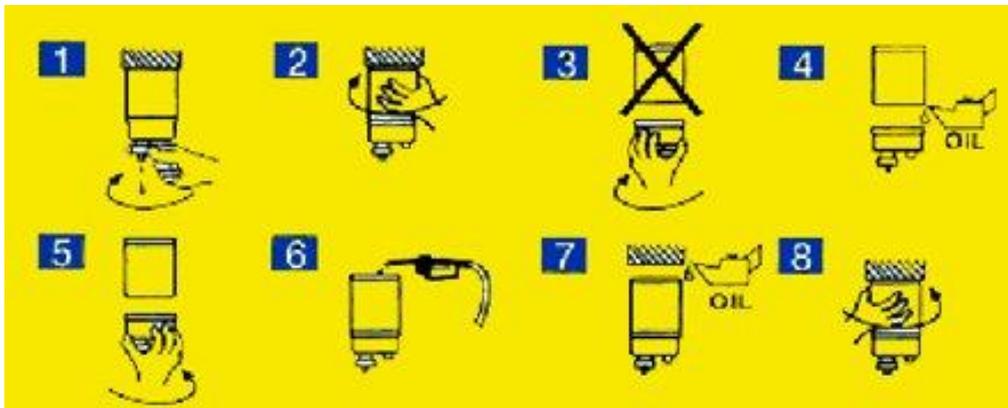
 WARNING	<p>IT IS VITAL TO DRAIN AND CLEAN THE FILTER REGULARLY AND TO CHANGE THE CARTRIDGE AT LEAST ONCE A YEAR. THE METAL BOWL CAN BE REUSED.</p>
---	---

INSTALLATION AND CIRCUIT - TANK AND ACCESSORIES

NOTE:	<p>Make sure that there is no water in the metal bowl each time you use your boat:</p> <p>Do this more often if your engine is not functioning correctly. Slightly unscrew the drain cap (do not remove it), and drain the water.</p> <p>Screw the drain cap back on if only petrol remains in the bowl.</p>
--------------	--

IV-1-3-1-1-Changing the filter's cartridge

Follow ZODIAC's recommendations and the filter manufacturer's recommendations.



IV-1-4-Recommendations

 WARNING	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> HAVING A FULL TANK AVOIDS CONDENSATION APPEARING ON EACH OUTLET. <input checked="" type="checkbox"/> GET THE TANK CLEANED EVERY FIVE YEARS. <input checked="" type="checkbox"/> CHECK THE TIGHTENING OF THE CLAMPS ON ALL HOSES. <input checked="" type="checkbox"/> WHEN DRAINING THE FILTER, DO NOT EMPTY THE WATER INTO THE BOAT. USE A CONTAINER UNDER THE FILTER. <input checked="" type="checkbox"/> CUT OFF CONTACT BEFORE REMOVING THE FILTER CARTRIDGE. <input checked="" type="checkbox"/> CAREFULLY READ THE INFORMATION ON THE FILTER'S INSTRUCTIONS.
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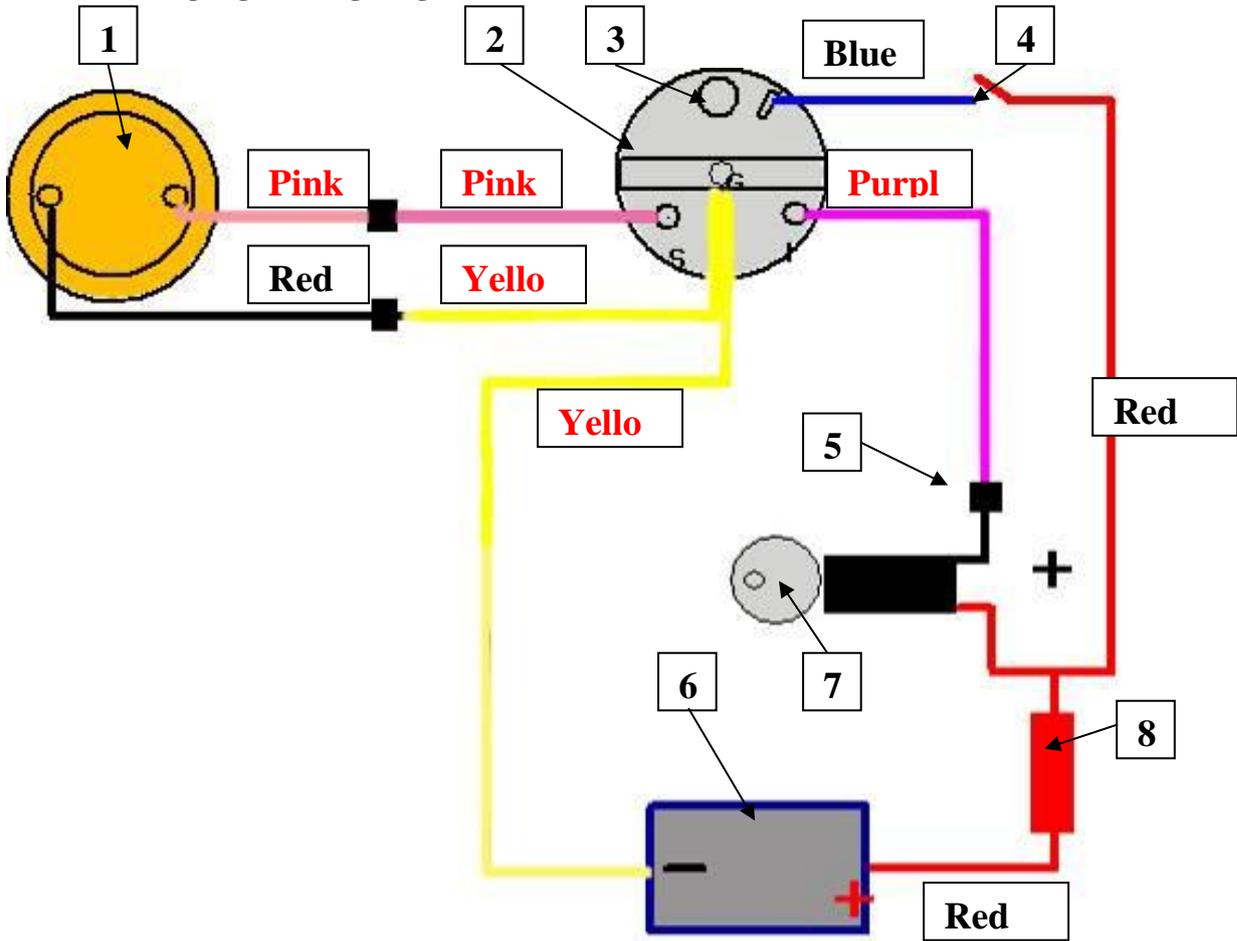
 WARNING	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> PETROL IS EXTREMELY INFLAMMABLE. MAKE SURE THAT THE ENGINES ARE TURNED OFF BEFORE WORKING ON THE FUEL SYSTEM. <input checked="" type="checkbox"/> DO NOT SMOKE; KEEP ALL NAKED FLAMES OR INCANDESCENT BODIES WELL AWAY FROM THE WORK AREA.
---	---

INSTALLATION AND CIRCUIT - ELECTRICITY

IV-2-ELECTRICITY

IV-2-1-Description of essential functional items

IV-2-1-1 Fuel gauge wiring diagram



1	Transmitter
2	Gauge
3	Gauge lighting
4	Navigation light or independent switch (optional)
5	Connection, pinpoint the contactor's positive output
6	Battery
7	Engine control box contactor
8	3A Fuse
 WARNING	IT IS VITAL TO HAVE A GAUGE DIAL. IF YOUR BOAT DOES NOT HAVE ONE, CONTACT YOUR ZODIAC DEALER.

The probe supplied is to American standard:

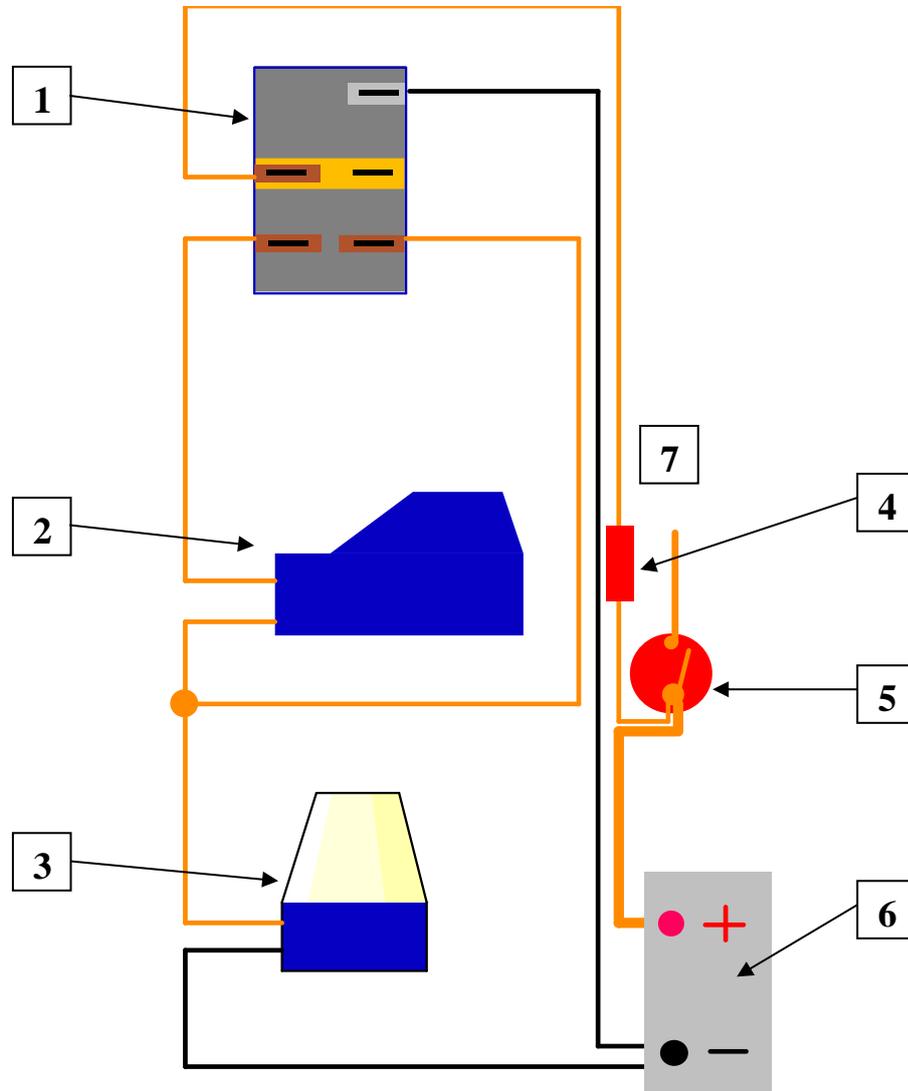
Impedance (tank empty position) 30 Ohms

Impedance (tank full position) 240 Ohms

All the dials on the market are compatible, with a few very rare exceptions

INSTALLATION AND CIRCUIT - ELECTRICITY

IV-2-1-2 Bilge pump wiring diagram



1	Bilge pump switch
2	Release
3	Bilge pump
4	Waterproof fuse holder + 3A fuse
5	Circuit breaker
6	Battery
7	Towards accessory wiring bundle

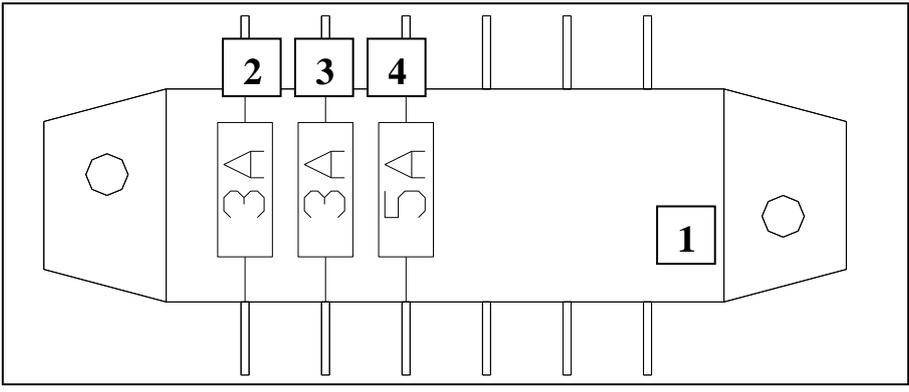
INSTALLATION AND CIRCUIT - ELECTRICITY

IV-2-1-3-Switches



1	Bilge pump switch
2	Navigation light switch
3	Deck lighting switch
3	Switch location

IV-2-1-4-Fuses

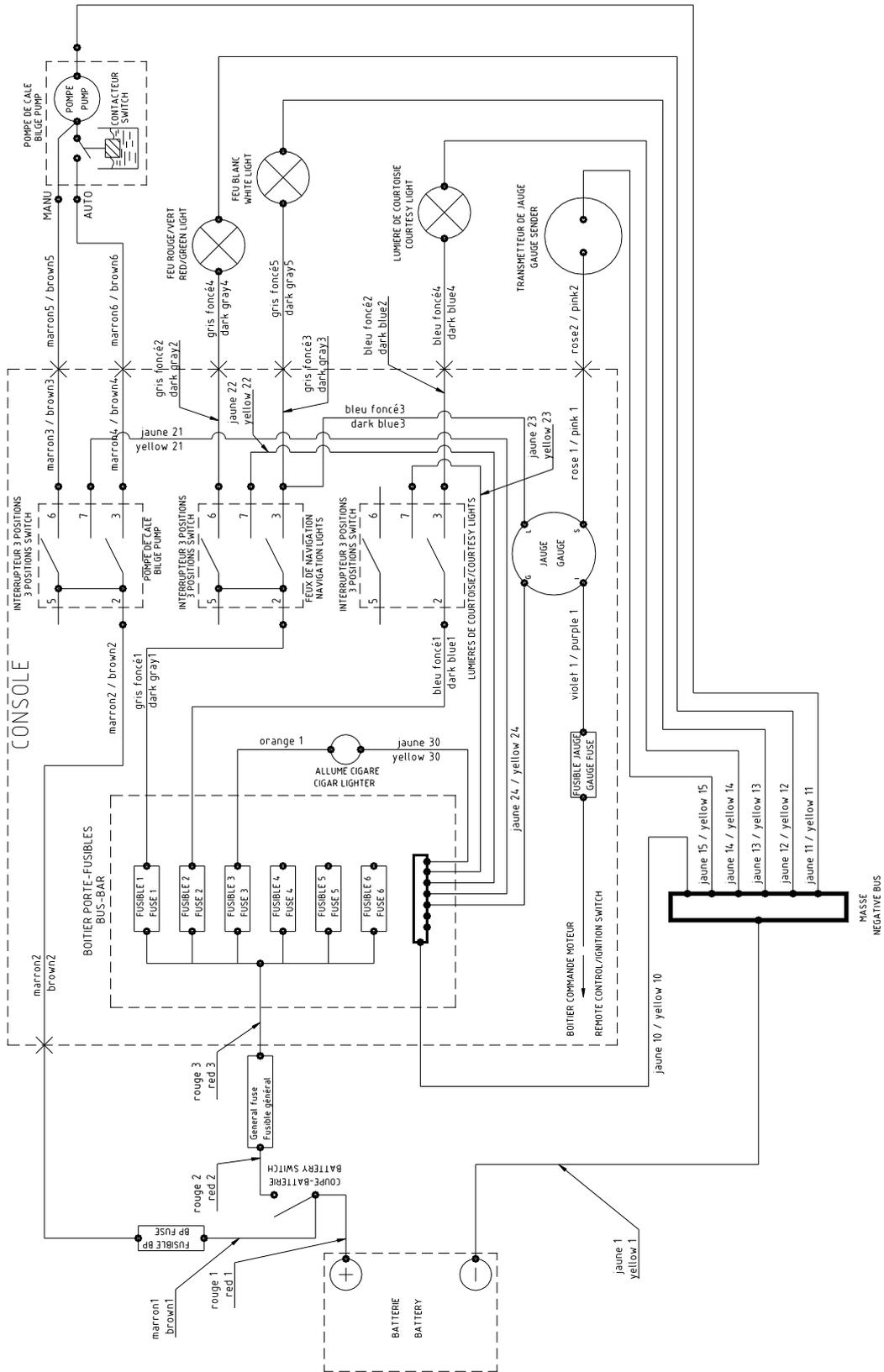


1	Fuse holder
2	Deck lighting fuse
3	Navigation lights
4	Cigar lighter fuse

Waterproof fuse holder + 3A fuse for the bilge pump and a waterproof fuse holder + 30A general fuse on the circuit breaker in the aft locker.

INSTALLATION AND CIRCUIT - ELECTRICITY

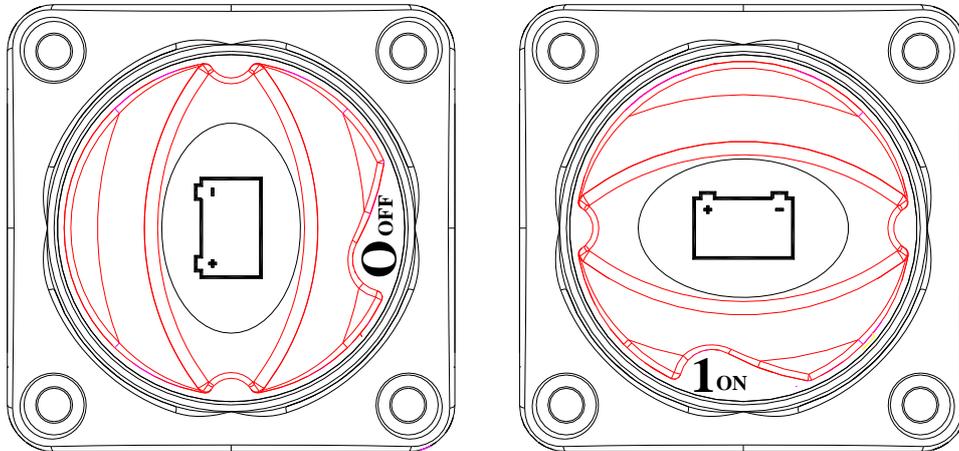
IV -2-1-5-Electrical diagram



INSTALLATION AND CIRCUIT - ELECTRICITY

IV-2-2-Use

IV-2-2-1- Circuit breaker



NOTE:	When your boat is not in use, put the circuit breaker into the OFF position.
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 WARNING	SWITCH OFF THE ENGINE BEFORE PUTTING THE CIRCUIT BREAKER INTO THE OFF POSITION.
--	--

INSTALLATION AND CIRCUIT - ELECTRICITY

IV-2-3-Maintenance

IV –2-1-3-Battery (not supplied)

Comply with ZODIAC's recommendations and with the recommendations of the battery manufacturer for standard maintenance.

	<p>MAINTAIN YOUR BATTERY:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> KEEP THE BATTERY CLEAN AND DRY IN ORDER TO AVOID PREMATURE WEAR. <input checked="" type="checkbox"/> TIGHTEN AND MAINTAIN THE TERMINAL LUGS BY GREASING THEM REGULARLY WITH VASELINE.
---	---

<p>NOTE:</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> If you do not plan to use your ZODIAC® tender for a month or more, remove the battery and store it in a cool, dark and dry place. Fully recharge the battery before reusing it. <input checked="" type="checkbox"/> If the battery is stored for a longer period, check electrolyte density at least once a month and recharge the battery as soon as density is too low. <p>Electrolyte density: 1.28 at 20°C</p>
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 <p>WARNING</p>	<p>THE WATER FROM THE WATER SUPPLY SYSTEM CONTAINS MINERALS WHICH DAMAGES BATTERIES. YOU SHOULD THUS ALWAYS TOP UP WITH DISTILLED WATER</p>
 <p>WARNING</p>	<ul style="list-style-type: none"> • KEEP THE BATTERIES AND THE ELECTROLYTE OUT OF THE REACH OF CHILDREN. • ALWAYS KEEP THE BATTERY UPRIGHT, NEVER ON ITS SIDE. • WHEN ADDING ELECTROLYTE OR WHEN RECHARGING THE BATTERY, ALWAYS REMOVE IT FROM THE ENGINE COMPARTMENT. • BATTERY ELECTROLYTE IS A TOXIC AND DANGEROUS LIQUID. IT CONTAINS SULPHURIC ACID WHICH CAN CAUSE SERIOUS BURNS. AVOID CONTACT WITH SKIN, EYES AND CLOTHES. • BATTERIES CAN EMIT EXPLOSIVE GASES. KEEP THEM AWAY FROM SPARKS, NAKED FLAMES, AND CIGARETTES ETC. • WHEN CHARGING OR USING A BATTERY, WORK IN A WELL-VENTILATED ENVIRONMENT. ALWAYS PROTECT YOUR EYES WHEN WORKING CLOSE TO A BATTERY.

INSTALLATION AND CIRCUIT – CONNECTION OF OPTIONS

IV-3-CONNECTING OPTIONS

IV-3-1-Precautions

The boat is supplied as standard with a bilge pump, navigation lights and a deck light and cigar lighter connector. However, 4 locations remain available on the fuse box (under the console) for the connecting of additional accessories under certain conditions:

- ① The accessories you want to add must be connected to the console.
- ② Accessories are divided into two categories:
 - A → Accessories that are used or which may be used continuously during normal use of the boat,
 - B → Accessories that are used intermittently.

A		and	B	
Bilge fan			Cigarette lighter connector (Standard)	
Radio			Miscellaneous lighting	
Depth sounder			Audio warning	
GPS			Miscellaneous electronic equipment	
Searchlight			Shower pump	
Alarm system			Max. power	72W max.
Refrigerator				
VHF				
Σ	180W max.			

 WARNING	<p>You must make sure that the total power of the accessories you add in column A is 180W (15A) or less <u>AND</u> the max power of an accessory in column B is 72W (6A) or less.</p> <p>The sections of the different cables in the wiring circuit were calculated using these figures; not following this rule may lead to electrical faults and cause short circuits.</p> <p style="text-align: center;">REMARK: maximum power of cigarette lighter = 60W</p>
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NOTE:	<p>If you are getting several pieces of electrical equipment installed. The total immediate consumption could potentially exceed your outboard motor's capacity. For example, the electrical wiring harness can accept instant consumption of 285W (including navigation lights and bilge pump), which is a little less than a 24 A output current. The alternators in the current engines generally provide 15 A when at full throttle. Check your engine's technical documentation. You should therefore avoid using this equipment over a long period of time, as you run the risk of flattening the battery and not being able to restart the engine.</p>
--------------	--

INSTALLATION AND CIRCUIT – CONNECTION OF OPTIONS

Example 1

You want to add:

- A 72W VHF,
- A 36W GPS,
- A 60W radio,
- A 72W cigar lighter,
- A 20W clock.

A	
Bilge fan	
Radio	60W
Depth sounder	
GPS	36W
Searchlight	
Alarm system	
Refrigerator	
VHF	72W
Σ	168W (<180W) ☺

and

B	
Miscellaneous lighting	
Miscellaneous electronic equipment	20W (clock)
Shower pump	
Max. power	72W (< or = 72W) ☺

CONCLUSION	☺
------------	---

Example 2

You want to add:

- A 60W VHF,
- A 36W GPS,
- A 48W radio,
- A 120W searchlight.

A	
Bilge fan	
Radio	48W
Depth sounder	
GPS	36W
Searchlight	120W
Alarm system	
Refrigerator	
VHF	60W
Σ	264W (> 180W) ☹

and

B	
Miscellaneous lighting	
Miscellaneous electronic equipment	
Shower pump	
Max. power	0 (< 72W) ☹

CONCLUSION	☹
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INSTALLATION AND CIRCUIT – CONNECTION OF OPTIONS

Example 3

You want to add:
 A 60W GPS,
 A 60W radio,
 A 120W audio warning.

A	
Bilge fan	
Radio	60W
Depth sounder	
GPS	60W
Searchlight	
Alarm system	
Refrigerator	
VHF	
Σ	120W (< 180W) ↻

and

B	
Miscellaneous lighting	
Miscellaneous electronic equipment	
Shower pump	
Max. power	120W (> 72W) ⚡

CONCLUSION	
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NOTE:	Some manufacturers will indicate the amperage rather than the absorbed power. With direct current, as is the case here, just multiply by 12 to obtain the power.
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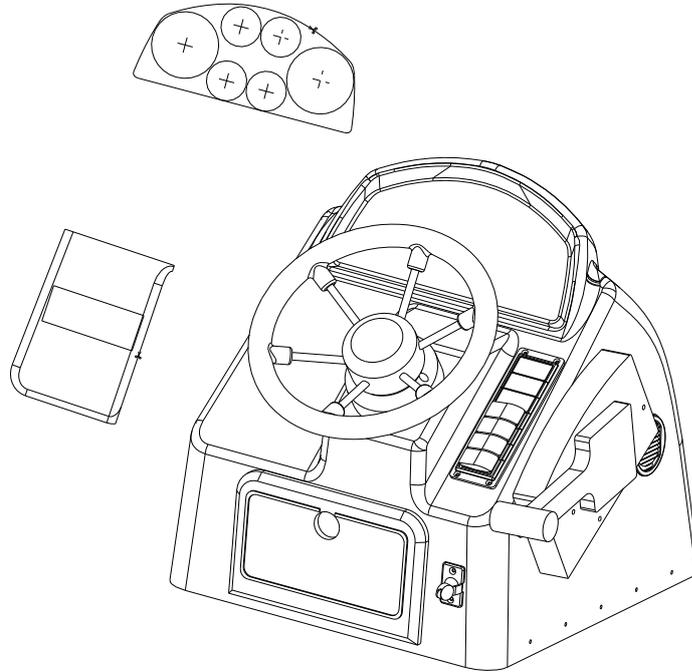
IV-3-2-Wiring

- ① Choose a free fuse location.
- ② Connect the power supply of your accessory to the terminal corresponding to this slot using a 6mm female tab type terminal lug.
- ③ If you have to add cable for the connection, use cable with a cross-section of at least 1.5mm² complying with "marine" standards (UL1426 or SAE J378 or SAE J1127 or SAE J1128 or which meet ABYC and/or EC standards).
- ④ Connect the earth cable of your accessory to the ground terminal strip using a Ø5 "ring terminal" (same remark as previously for the cable),
- ⑤ Insert an ATO type fuse with a max current of 15A and greater than the load current of your device.

INSTALLATION AND CIRCUIT – CONNECTION OF OPTIONS

IV -3-3-Connecting accessories on the console

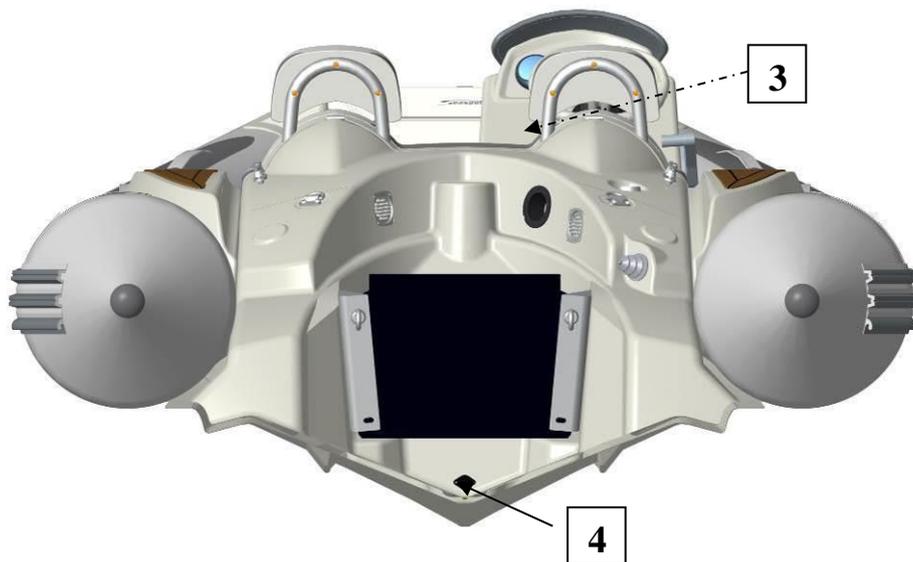
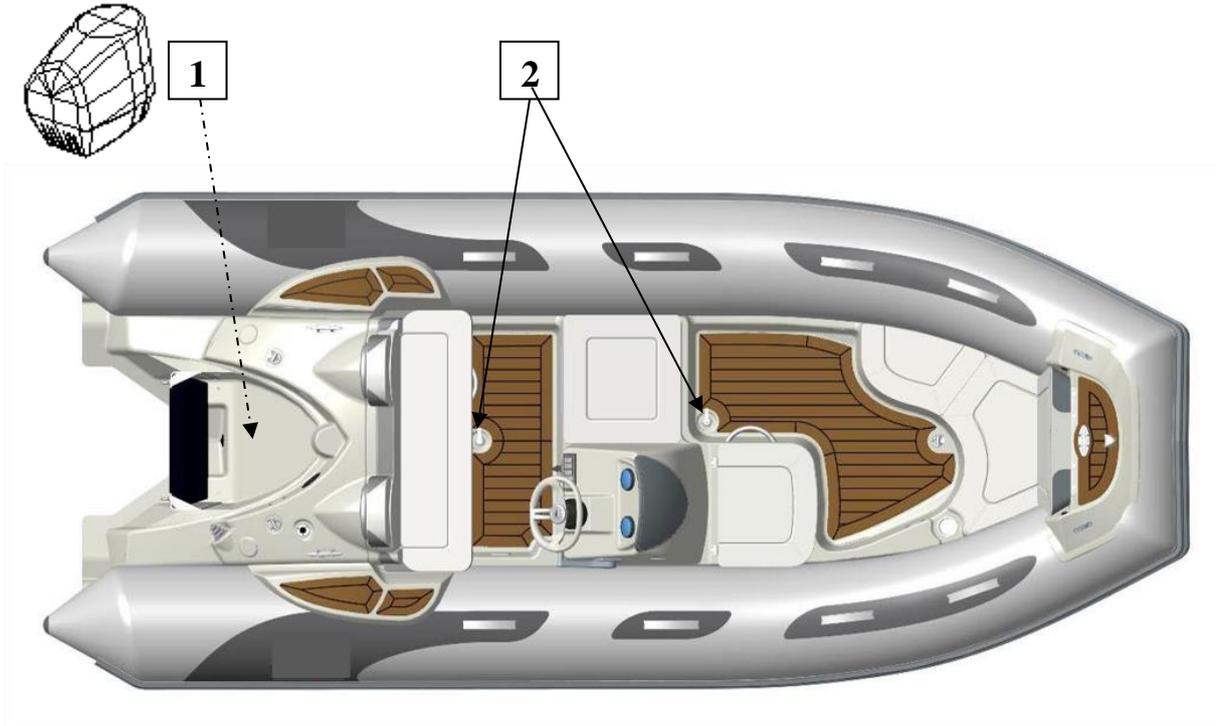
Depending on the level of equipment of your tender, ZODIAC recommends placing it in the following manner (see templates supplied with the boats) which optimises the space available.



INSTALLATION AND CIRCUIT - DRAINING

IV-4-DRAINING

IV-4-1-Description of essential functional items



1	Bilge pump
2	deck bailer + plugs
3	Bilge pump switch
4	Scupper

INSTALLATION AND CIRCUIT - DRAINING

IV-4-2-Use

IV-4-2-1-Bilge pump

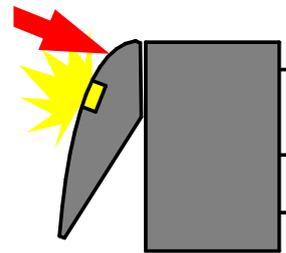
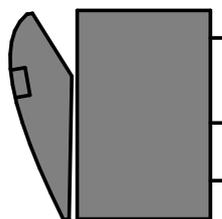
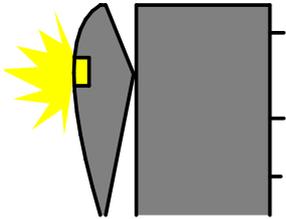
The bilge pump is not wired to the battery switch and operates independently; the switch  is always connected.

- ① Automatic operation (fixed position); in this position the bilge pump works automatically. The pilot light is on. The indicator will not run down your battery, even when at anchor for several months.
- ② Stop; in this position (set position), the bilge pump is off. The pilot light is off.
- ③ Forced operation; the switch has to be held depressed to operate it. As soon as you release the switch, it returns to automatic (1).

**1 - On position
automatic**

**2 - Position
stop**

**3 - Forced
starting position**



**AT ANCHOR, SET THE BILGE PUMP SWITCH TO THE
AUTOMATIC STARTING POSITION.**

INSTALLATION AND CIRCUIT - DRAINING

IV-4-2-2-Anchoring

	<p>AT A TEMPORARY MOORING OR IN OTHER SITUATIONS WHERE THE BOAT IS UNLIKELY TO TAKE IN LARGE AMOUNTS OF WATER (HEAVY RAIN, BREAKING WAVES), PLACE THE SELF-BAILER SLEEVES IN LOWERED OR RAISED POSITION.</p>
---	---

 WARNING	<p>IF THE BOAT TAKES ON A CONSIDERABLE QUANTITY OF WATER FROM THE OUTSIDE (HEAVY RAIN, WAKE, ETC.), THE BOAT MAY BE SUBMERGED (EFFECT). THE WATER TAKEN ON WAY THEN ACCUMULATE IN THE BILGE AND MAKE THE BOAT MUCH HEAVIER CAUSING IT TO LIE LOW IN THE WATER AND CAUSE SERIOUS DAMAGE TO CERTAIN UNITS SUCH AS THE ENGINE OR THE ELECTRICAL CIRCUITS.</p> <p>FOR PROLONGED ANCHORING, WE STRONGLY RECOMMEND THE USE OF A TARPAULIN OR A COCKPIT COVER TO PREVENT WATER INGRESS IN THE EVENT OF HEAVY RAIN.</p> <p>PLEASE CONTACT YOUR DEALER.</p>
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IV-4-2-3-Hull drain hole

IV-4-2-3-1-Boat out of the water (on trailer, cradle, etc.)

	<p>OPEN POSITION, DRAIN PLUG REMOVED.</p>
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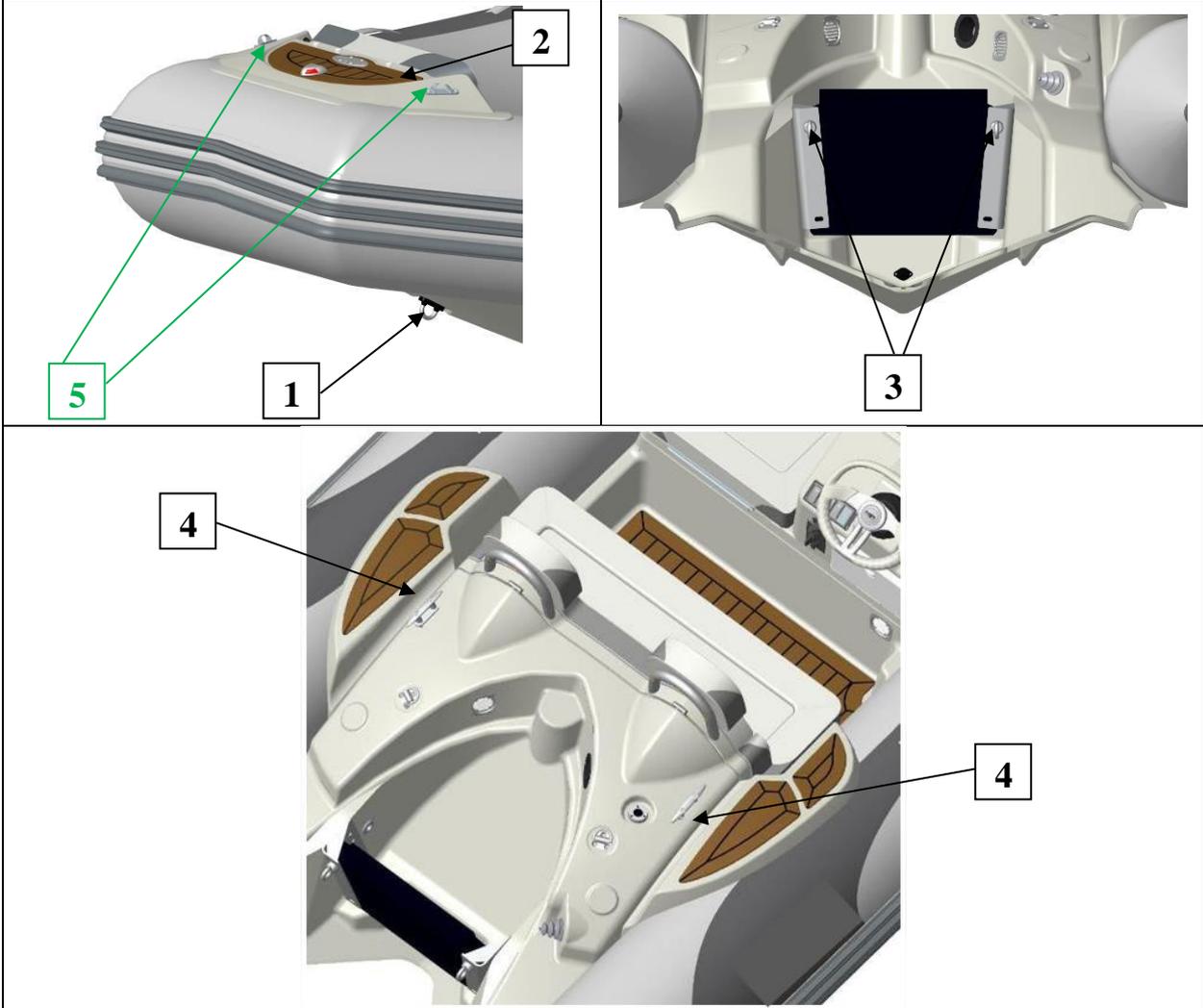
IV-4-2-3-2-Boat in the water

	<p>CLOSED POSITION, DRAIN PLUG FITTED.</p>
 WARNING	<p>MAKE SURE THE PLUG IS PROPERLY CLOSED</p>

INSTALLATION AND CIRCUIT - ANCHORING/MOORING

IV-5-ANCHORING / MOORING

IV-5-1-Description of essential functional items



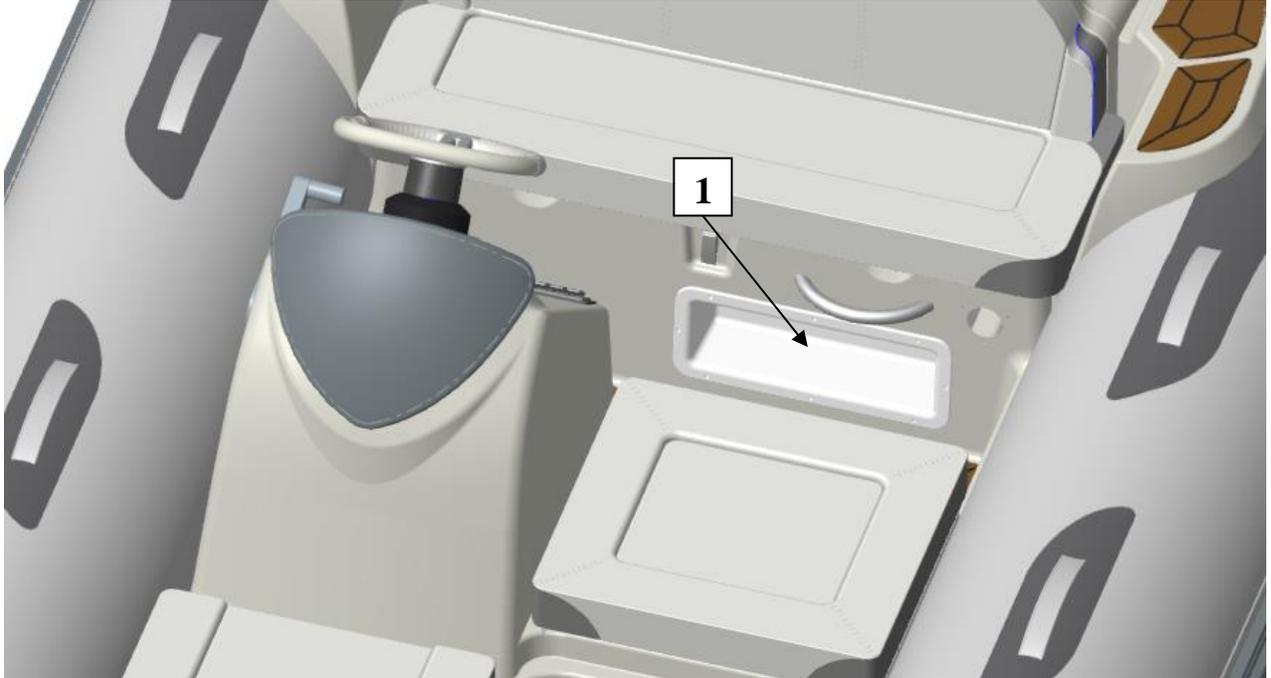
1	Bow ring
2	Forward cleat
3	mooring rings
4	Aft bollards
5	Fairleads

INSTALLATION AND CIRCUIT - ANCHORING/MOORING

	ANCHORING: USE THE BOW RING (1), LOCATED AT THE FORWARD END.
	MOORING: IN AN UNWATCHED MOORING, THE BOW FAIRLEAD (1) AND THE AFT CLEATS (4) MUST BE USED.
	STOWING ON A TRAILER OR CRADLE: USE THE BOW RING (1) AND THE MOORING RINGS (3) ON THE OUTSIDE OF THE TRANSOM.
 WARNING	THE CLEAT LOCATED ON THE PULPIT MUST ONLY BE USED IN CALM AND WATCHED WATERS. MOORING CLEATS MUST NOT BE USED FOR LIFTING.

INSTALLATION AND CIRCUIT - FIRE

V--Fire



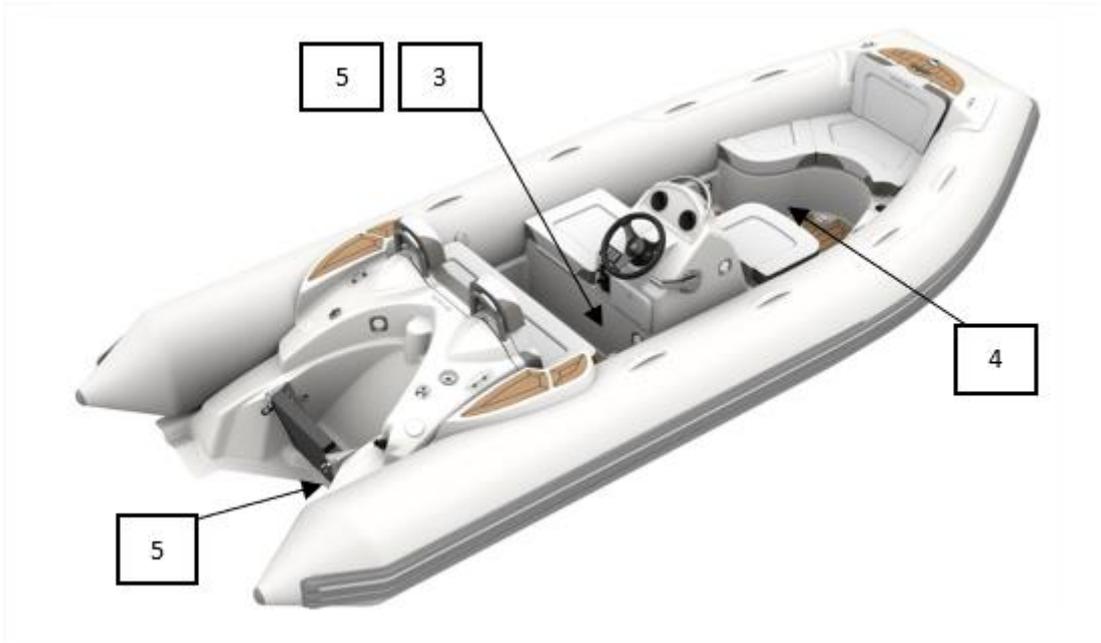
1	Fire extinguisher bracket
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**WE RECOMMEND YOU KEEP AN EXTINGUISHER ON BOARD, AND COMPLY WITH THE LAWS APPLICABLE IN YOUR COUNTRY.
AN EXTINGUISHER BRACKET IS FITTED UNDER THE PASSENGER SEAT.**

SAFETY ADHESIVE LABELS - POSITION

VI-SAFETY STICKERS VI-Position of stickers



SAFETY ADHESIVE LABELS - DESCRIPTION

V-2-Description of labels



⚠ 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 (-)

1



⚠ 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 CREEES • LES FUITES DE CARBURANTS CONSTITUENT UN RISQUE D' INCENDIE ET D' EXPLOSION • VERIFIER LE CIRCUIT CARBURANT AVANT CHAQUE UTILISATION

2

⚠ 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

3

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

4

POSITION OF SAFETY LABELS

DANGER	DANGER
<p>TO AVOID INJURY OR DEATH, SHUT OFF ENGINE WHEN NEAR SWIMMERS OR PRIOR TO USING SWIN PLATFORM AND BOARDING LADDER</p>	<p>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>

5

DANGER	DANGER
<p>A FIRE EXTINGUISHER MUST BE CARRIED AT ALL TIMES</p>	<p>UN EXTINCTEUR DOIT ETRE DISPONIBLE EN PERMANENCE A BORD</p>

6

7	8
<div style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 10px;">FR-</div> XDCXXXXXXXXXX	9