ZODIAC

Volume 2

OPEN

610 689- A

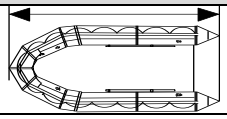
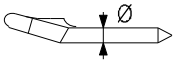
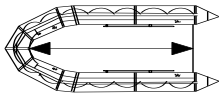
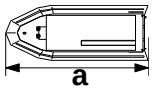
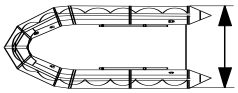
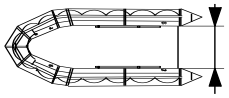
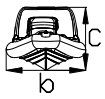
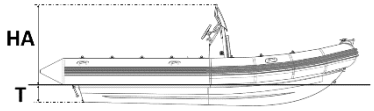
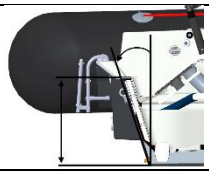
CAREFULLY READ THIS MANUAL BEFORE PUTTING YOUR ZODIAC INTO SERVICE.

VOLUME 2

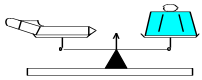
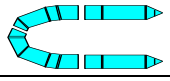
DESCRIPTION - BUOYANCY TUBE
PROPULSION SYSTEM
INSTALLATION AND CIRCUITS

CONTENTS

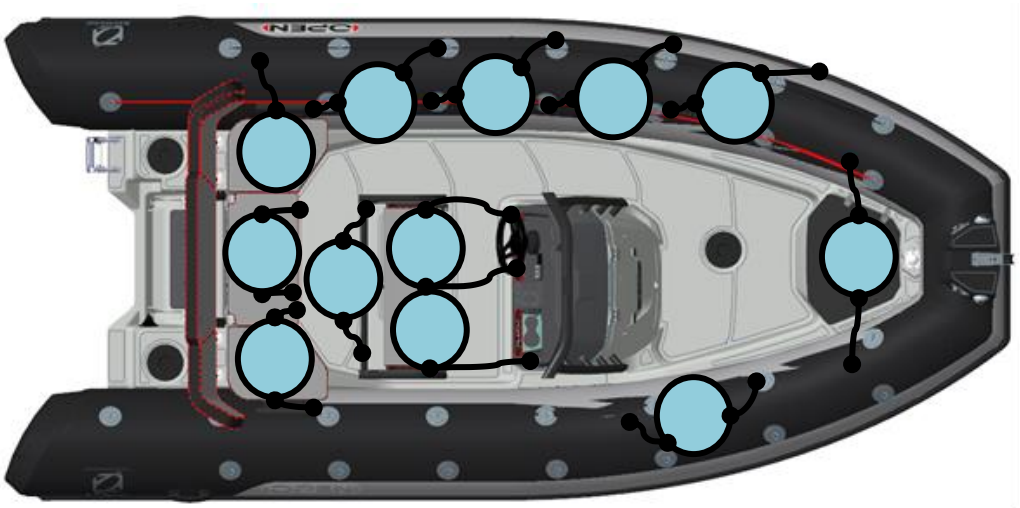
I -1-TECHNICAL CHARACTERISTICS OPEN 5.5

Dimensions *Dimension tolerance +/- 3%*						
	m	5.4	 Buoyancy tube diameter		m	0.575
	ft	17‘ 9”			ft	1'11”
	m	4.225	Without the buoyancy tube 	a	m	4.55
	ft	13‘ 10”			ft	14'11”
	m	2.54		b	m	1.7
	ft	8‘ 4”			ft	5‘ 7”
	m	1.39		c	m	2.375
	ft	4‘ 7”			ft	7‘ 10’”
	HA (mm)	2035	Max. air draught (taking into account the highest console available as an option)			
	T (mm)	450	Max. draught			
	°	17	Transom angle			
	mm	507	Transom height			

Design category	
CE (Directive 2013/53/EU)	C

Capacity *Weight tolerance +/- 5%*				
(ISO)			C **12**	
Maximum	**ISO 14946**	**kg**	1310	Maximum load i.a.w. ISO 14946 (1+2+3+4) data figuring on the ICNN certificate. Maximum load i.a.w. ISO 14945 (1+2+3+5) data figuring on the manufacturer plate. Weight of people Personal property List of all options proposed Content of consumable liquid tanks (fuel, drinking water...) Weight of the engine or engines
		lb	2888	
Maximum	**ISO 14945**	**kg**	1410	
		lb	3109	
		**kg**	580	The weights indicated do not include any accessories
		lb	1279	
Number of compartments 			5	

DESCRIPTION - Technical characteristics



Seat with handles

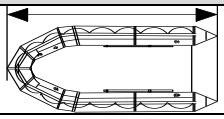
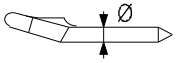
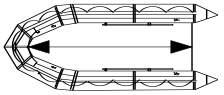
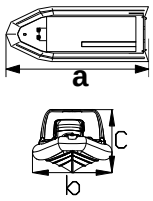
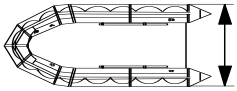
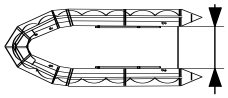
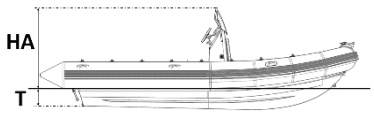
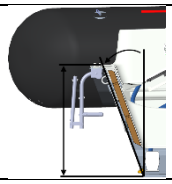
WARNING!

Do not exceed the maximum number of people recommended.
No matter how many people are on board, the total weight of passengers and equipment must never exceed the maximum recommended load.
Always use the designated seats or seating areas.

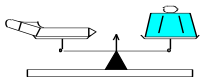
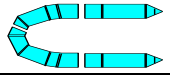
Engine configuration of the OPEN 5.5				
L Long	Shaft length		SINGLE ENGINE L	
	Minimum recommended power	HP	70	The recommended power corresponds to optimal use of the boat's capacities for an average load.
		kW	51.5	
	Maximum recommended power	HP	115	
		kW	84	
	Maximum allowed power	HP	130	
		kW	95.7	
Maximum	Maximum engine weight	kg	225	
		lb	496	

NOTE: The maximum authorized power, when greater than the maximum recommended power, must be used with extreme caution. It is intended for experienced users, using their boat under very specific conditions (transport of heavy loads, etc.). See the "Sailing advice" chapter in Volume 1 of the manual.

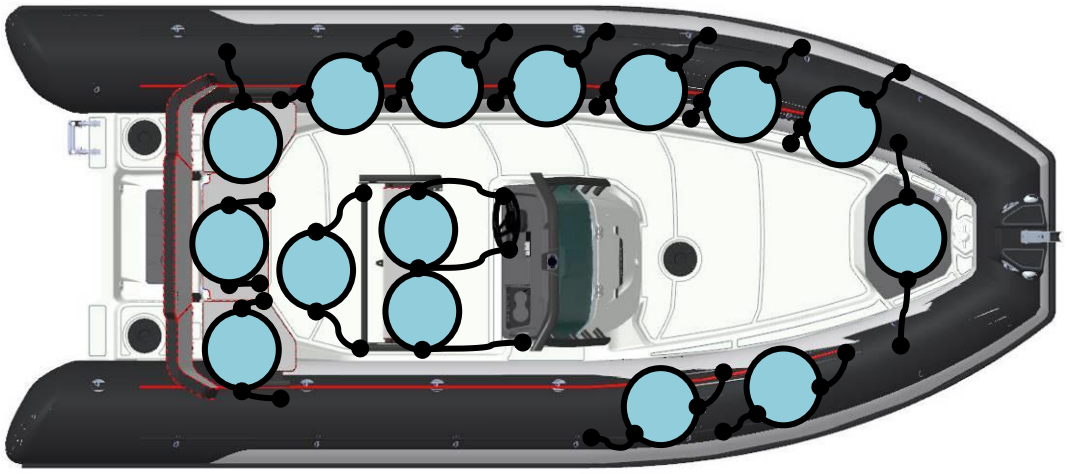
I -2-TECHNICAL CHARACTERISTICS OF THE OPEN 6.5

Dimensions *Dimension tolerance +/- 3%*						
	m	6.1	 Buoyancy tube diameter		m	0.575
	ft	20’			ft	1'11”
	m	4.93	Without the buoyancy tube 	a	m	5.32
	ft	16‘ 16”			ft	17'45”
	m	2.54		b	m	1.7
	ft	8‘ 4”			ft	5‘ 7”
	m	1.39		c	m	2.46
	ft	4‘ 7”			ft	8‘ 07”
	HA (mm)	2085	Max. air draught (taking into account the highest console available as an option)			
	T (mm)	575	Max. draught			
	°	19.5	Transom angle			
	mm	653.5	Transom height			

Design category	
CE (Directive 2013/53/EU)	C

Capacity *Weight tolerance +/- 5%*				
(ISO)			C **15**	
Maximum	**ISO 14946**	**kg**	1680	Maximum load i.a.w. ISO 14946 (1+2+3+4) data figuring on the ICNN certificate. Maximum load i.a.w. ISO 14945 (1+2+3+5) data figuring on the manufacturer plate. Weight of people Personal property List of all options proposed Content of consumable liquid tanks (fuel, drinking water...) Weight of the engine or engines
		lb	3704	
Maximum	**ISO 14945**	**kg**	1770	
		lb	3902	
		**kg**	760	The weights indicated do not include any accessories
		lb	1676	
Number of compartments 			5	

DESCRIPTION - Technical characteristics



Seat with handles

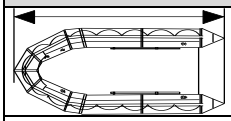
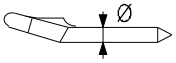
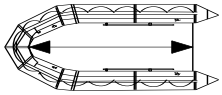
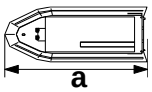
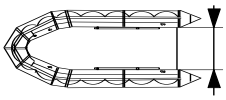
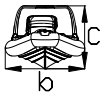
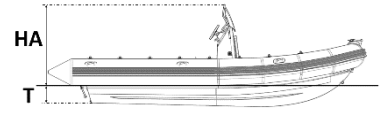
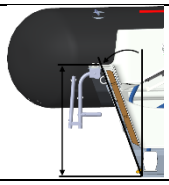
WARNING!

Do not exceed the maximum number of people recommended.
No matter how many people are on board, the total weight of passengers and equipment must never exceed the maximum recommended load.
Always use the designated seats or seating areas.

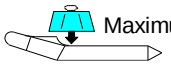
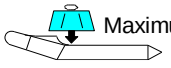
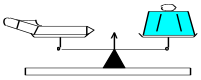
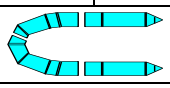
Engine configuration of the OPEN 6.5				
L Long	Shaft length		SINGLE ENGINE XL	
	Minimum recommended power	HP	115	The recommended power corresponds to optimal use of the boat's capacities for an average load.
		kW	84.6	
	Maximum recommended power	HP	150	
		kW	110	
	Maximum allowed power	HP	175	
		kW	131	
Maximum	Maximum engine weight	kg	282	
		lb	622	

NOTE: The maximum authorized power, when greater than the maximum recommended power, must be used with extreme caution. It is intended for experienced users, using their boat under very specific conditions (transport of heavy loads, etc.). See the "Sailing advice" chapter in Volume 1 of the manual.

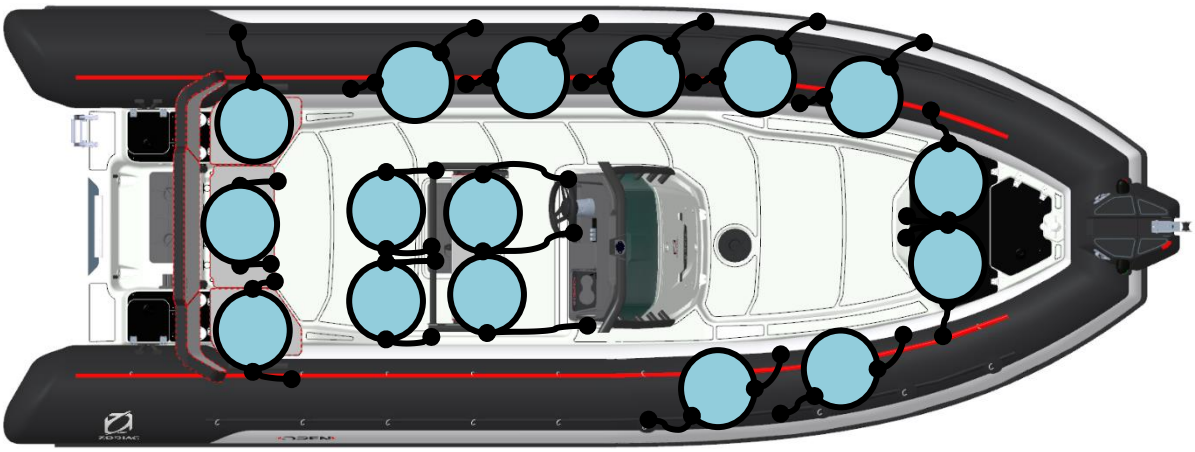
I -3-TECHNICAL CHARACTERISTICS OF THE OPEN 7

Dimensions *Dimension tolerance +/- 3%*						
	m	6.95	 Buoyancy tube diameter		m	0.575
	ft	22‘ 10”			ft	1'11”
	m	5.73	Without the buoyancy tube  a	a	m	5.98
	ft	18‘ 10”			ft	19'7”
	m	2.54		b	m	1.805
	ft	8‘ 4”			ft	5‘ 11”
	m	1.39	 C b	c	m	2.37
	ft	4‘ 7”			ft	7‘ 9”
 HA T	HA (mm)	2000	Max. air draught (taking into account the console)			
	T (mm)	560	Max. draught			
	°	18.3	Transom angle			
	mm	642	Transom height			

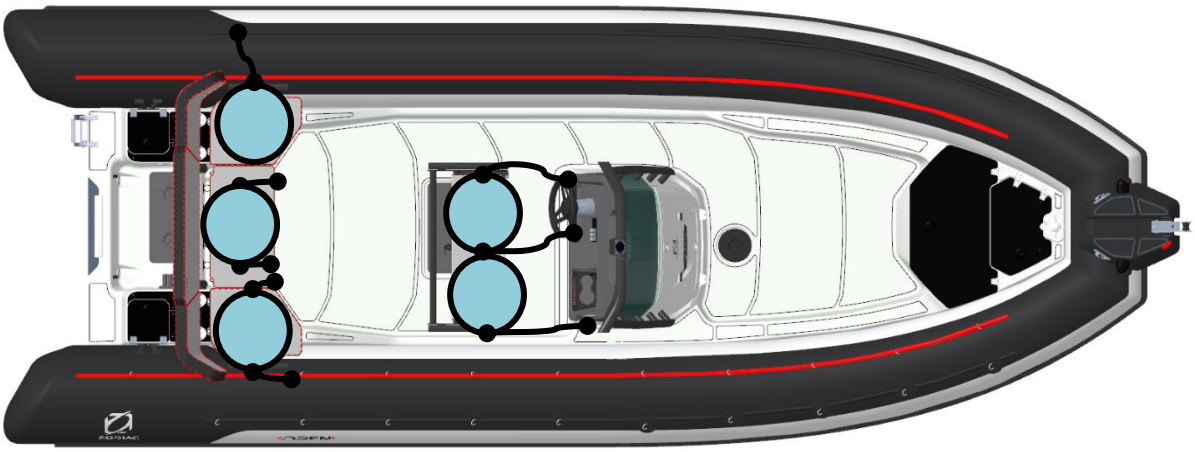
Design category	
CE (Directive 2013/53/EU)	B / C

Capacity *Weight tolerance +/- 5%*					
(ISO)			B	C	
			5*	**16**	
 Maximum	**ISO 14946**	**kg**	1290	1880	Maximum load i.a.w. ISO 14946 (1+2+3+4) data figuring on the ICNN certificate. Maximum load i.a.w. ISO 14945 (1+2+3+5) data figuring on the manufacturer plate. 1. Weight of people 2. Personal property 3. List of all options proposed 4. Content of consumable liquid tanks (fuel, drinking water...) 5. Weight of the engine or engines
		lb	2844	4145	
 Maximum	**ISO 14945**	**kg**	1400	1990	
		lb	3086	4387	
		**kg**	910		The weights indicated do not include any accessories
		lb	2006		
Number of compartments 			5		

DESCRIPTION - Technical characteristics



Seat with handles (Category C)



Seat with handles (Category B)

**** WARNING***

The number of people for category B depends on the number of seated places at the back (half of the boat).

Passengers should also be able to hold on to a handle.

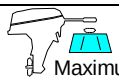
WARNING!

Do not exceed the maximum number of people recommended.

No matter how many people are on board, the total weight of passengers and equipment must never exceed the maximum recommended load.

Always use the designated seats or seating areas.

Engine configuration of the OPEN 7

	Shaft length		**SINGLE ENGINE**	
			XL	
	Minimum recommended power	HP	115	The recommended power corresponds to optimal use of the boat's capacities for an average load.
		kW	84.6	
	Maximum recommended power	HP	200	
		kW	147.2	
	Maximum allowed power	HP	250	
		kW	184	
	Maximum engine weight	kg	307	
		lb	677	

DESCRIPTION - Technical characteristics

NOTE: The maximum authorized power, when greater than the maximum recommended power, must be used with extreme caution. It is intended for experienced users, using their boat under very specific conditions (transport of heavy loads, etc.). See the "Sailing advice" chapter in Volume 1 of the manual.

WARNING!

When loading the boat, never exceed the maximum recommended load. Always load the boat carefully and distribute the load appropriately, to maintain the theoretical trim (approximately horizontal). Avoid placing heavy loads high up.

WARNING!

The maximum load on the manufacturer's plate should not be exceeded.

We recommend, when the boat is at maximum capacity:

- **Navigate cautiously**
- **Distribute the load evenly**
- **Maintain appropriate trim.**

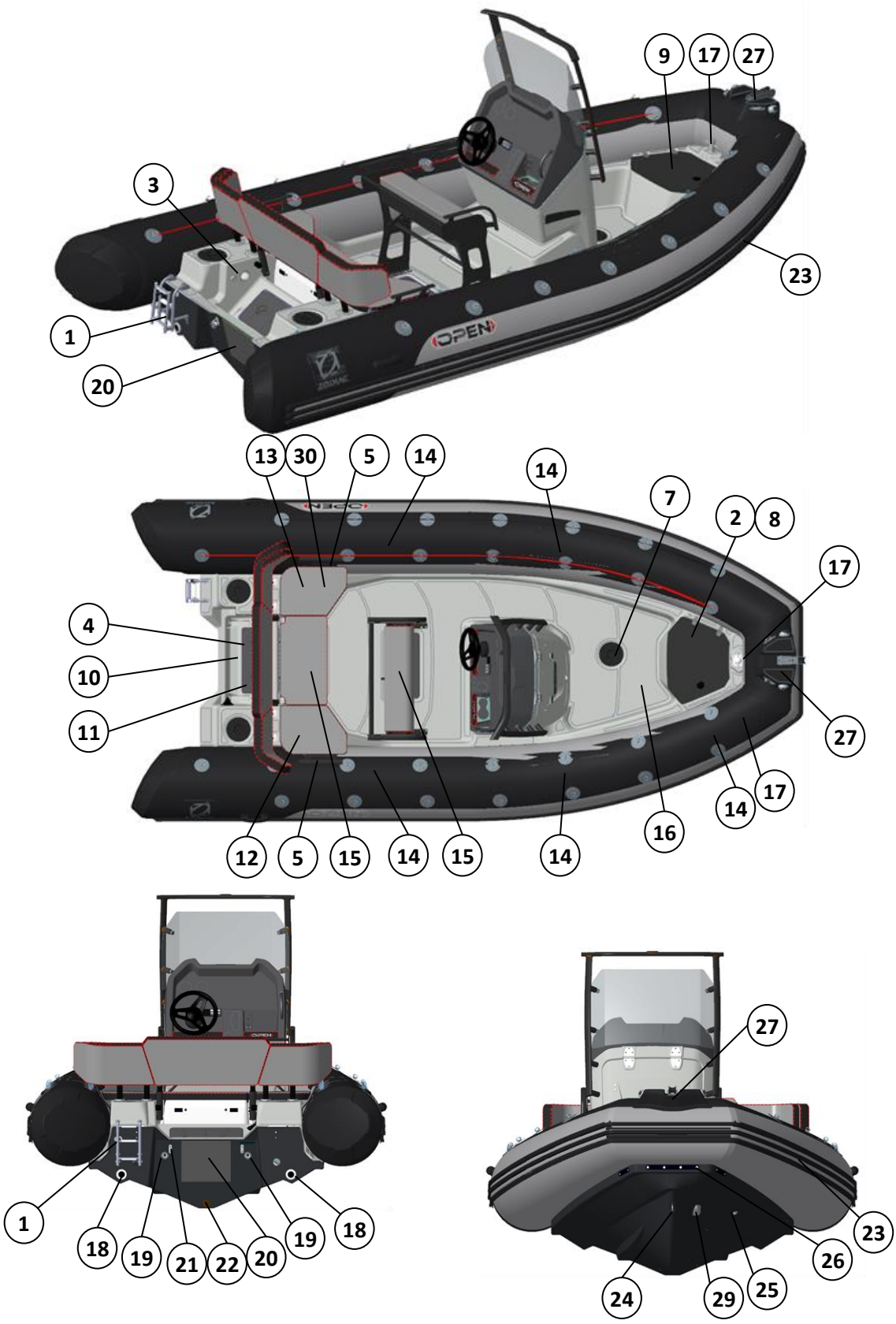
WARNING!

Do not store flammable products in the rear compartment.

It is strictly forbidden to store a spare fuel tank.

I-4 INVENTORY AND LOCATION

OPEN 5.5



DESCRIPTION - INVENTORY and Location

OPEN 6.5

OPEN7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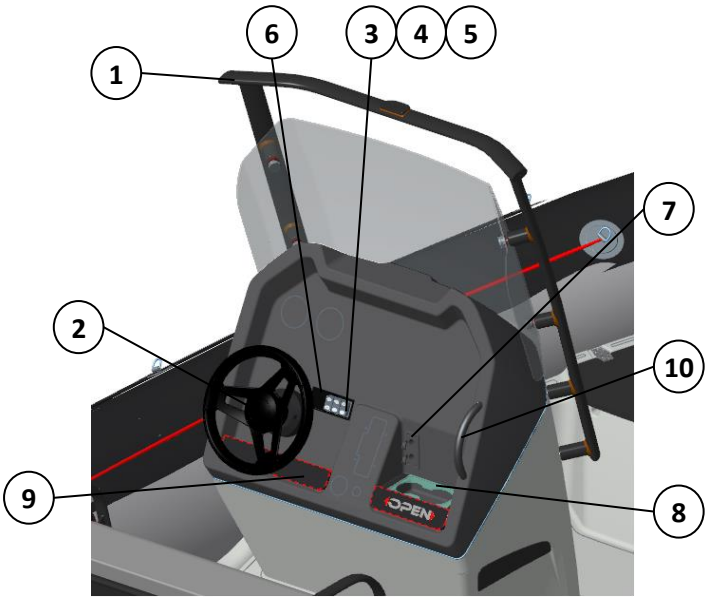
DESCRIPTION - INVENTORY and Location

Ref.	DESCRIPTION
	Polyester hull with counter-moulded and anti-slip deck
	Bolster
	Console
	Built-in fuel tank
1	Boarding ladder
2	Tank vent
3	Bilge pump outlet
4	Rear compartment
5	Mooring bollards
6	Carrying handles
7	Tank access hatch
8	Tank filler
9	Anchor locker
10	Electric bilge pump
11	Battery (box) — *Inside the rear locker*
12	Water/fuel separator filter
13	Battery switch
14	Inflation/deflation valves
15	Deck hatches
16	Built-in fuel tank
17	Mooring cleat
18	Deck self-bailer
19	Engine recess drain
20	Martyr plate
21	Towing chain plates
22	Hull scupper
23	Rubbing strip
24	Bow chain plate
25	Fuel overflow outlet
26	Buoyancy tube flap fastening
27	Bow roller + sheave + navigation lights + fairlead
28	Forward locker
29	Anchor locker drain outlet
30	Bilge fan *Inside the rear locker*
	Removable buoyancy tube with wide rubbing strip, grab lines and long cones.
STANDARD EQUIPMENT	
	2 telescopic paddles, 1 foot inflator, 1 repair kit, 1 owner's manual (2 volumes), 1 pressure gauge.

OPTIONAL EQUIPMENT		OPEN 5.5	OPEN 6.5	OPEN 7
	Roll Bar / Ski mast	X	X	X
	Hydraulic steering	X		
	Bolster backrest	X	X	X
	Anchor locker cushion	X	X	X
	Forward sun lounger	X	X	X
	Forward pulpit	X	X	X
	Cockpit cover	X	X	X
	Aft platform	X	X	X
	Aft windlass			X
	Fore windlass		X	X
	Fusion audio system, radio, mp3, aerial, 2 x 200-watt loudspeakers	X	X	X
	Other options available. See your ZODIAC dealer			



REF.	DESCRIPTION
1	Handrail
2	Steering wheel, hydraulic steering
3	Bilge ventilation switch
4	Bilge pump switch
5	Navigation light switch
6	Empty spaces for other switches
7	12V plug and USB plug
8	Glove compartment / Glass holder
9	Glove compartment

I-5-HANDLING

I-5-1 Transport

Trailer installation recommendations are specified in VOLUME I of the owner's manual.
Use a trailer adapted to your boat.
The boat is compatible with standard road gauge. It is designed to be transported inflated.

The weight in transport conditions for a trailer includes:

OPEN 5.5

Unladen weight of the boat:	581 kg	*Tolerance +/- 5 %*
Weight of the engine(s):	225 kg	
Consumable quantity:	75 kg	*Fuel tank*
Options:	159 kg	*Model including all options*
Safety equipment:	21 kg	*Fittings*
Σ:	**1061 kg**	

OPEN 6.5

Unladen weight of the boat:	760 kg	*Tolerance +/- 5 %*
Weight of the engine(s):	282 kg	
Consumable quantity:	146 kg	*Fuel tank*
Options:	159 kg	*Model including all options*
Safety equipment:	21 kg	*Fittings*
Σ:	**1368 kg**	

OPEN 7

Unladen weight of the boat:	910 kg	*Tolerance +/- 5 %*
Weight of the engine(s):	307 kg	
Consumable quantity:	207 kg	*Fuel tank and freshwater tank*
Options:	306 kg	*Model including all options*
Safety equipment:	130 kg	*Fittings*
Σ:	**1860 kg**	

STOWING ON A TRAILER OR CRADLE:
Use the bow ring and the rear chain plates on the outside of the transom.

<u>RECOMMENDATION</u>: <u>IF TRANSPORTED WITH BUOYANCY TUBE DEFLATED!</u>
TO AVOID DAMAGING THE CONE ENDS, WE RECOMMEND YOU USE THE TRANSPORT STRAP KIT (OPTIONAL EQUIPMENT)..

I -5-2-Storage

The console can be tilted, the backs removed to optimise the height of the boat for storage.

OPEN 5.5

OPEN 6.5

OPEN 7

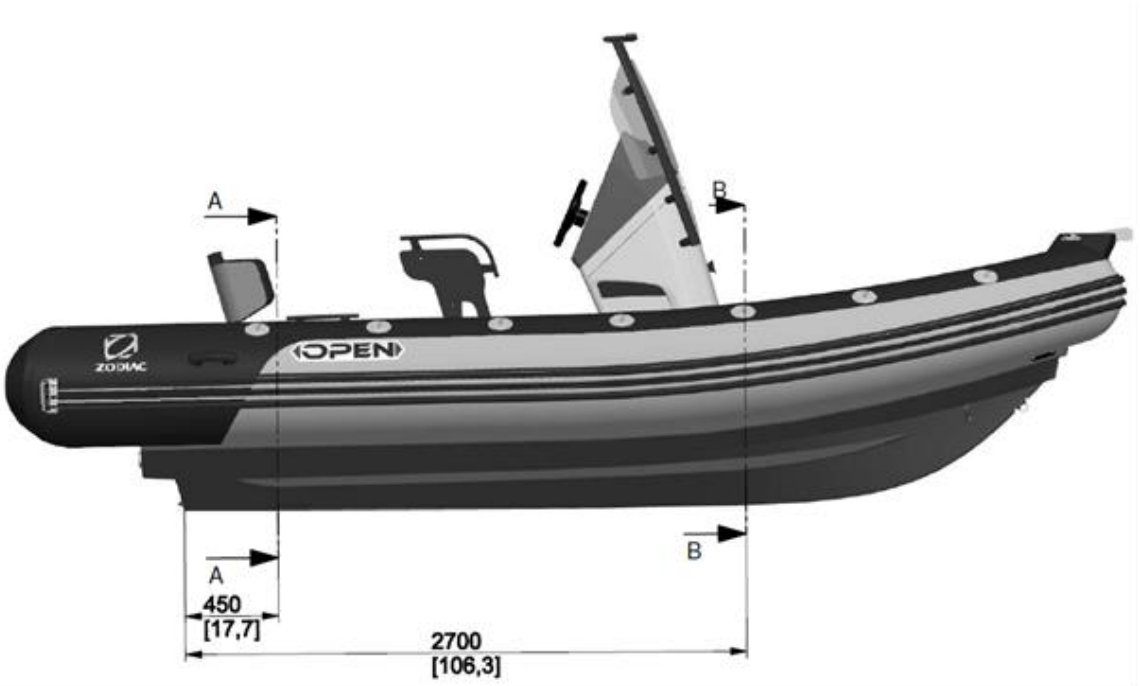
WARNING!

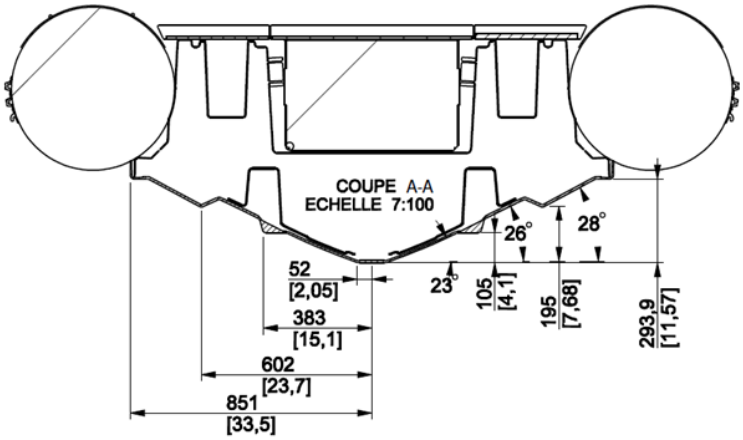
The boat must rest on the bow line.

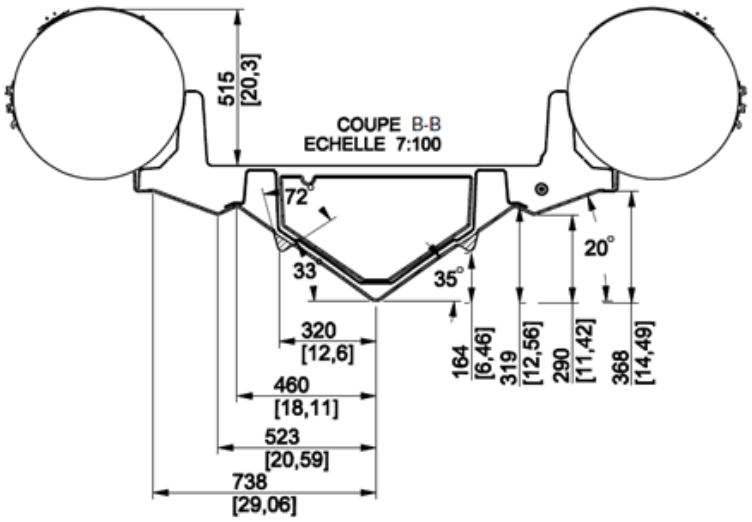
See diagram below.

DESCRIPTION - Handling

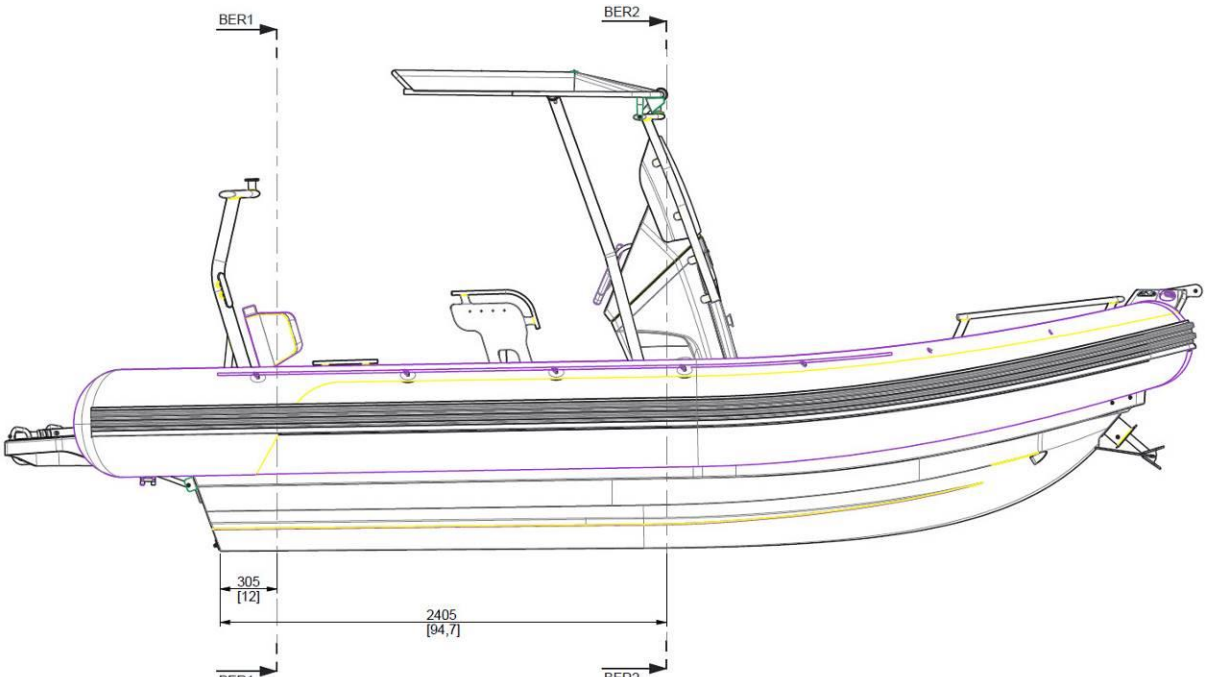
OPEN 5.5

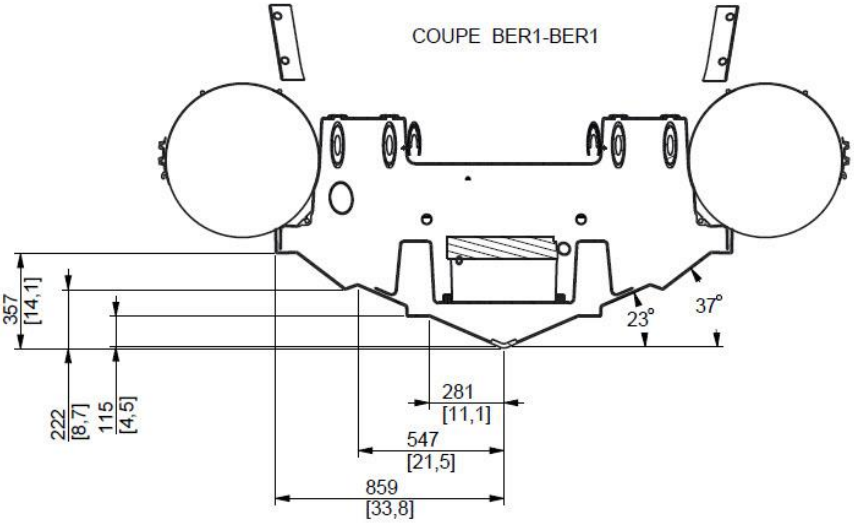


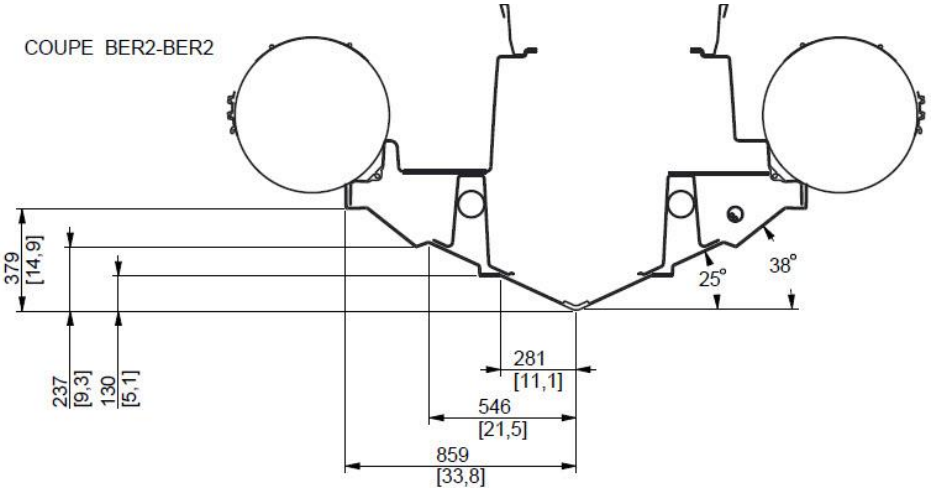




OPEN 6.5

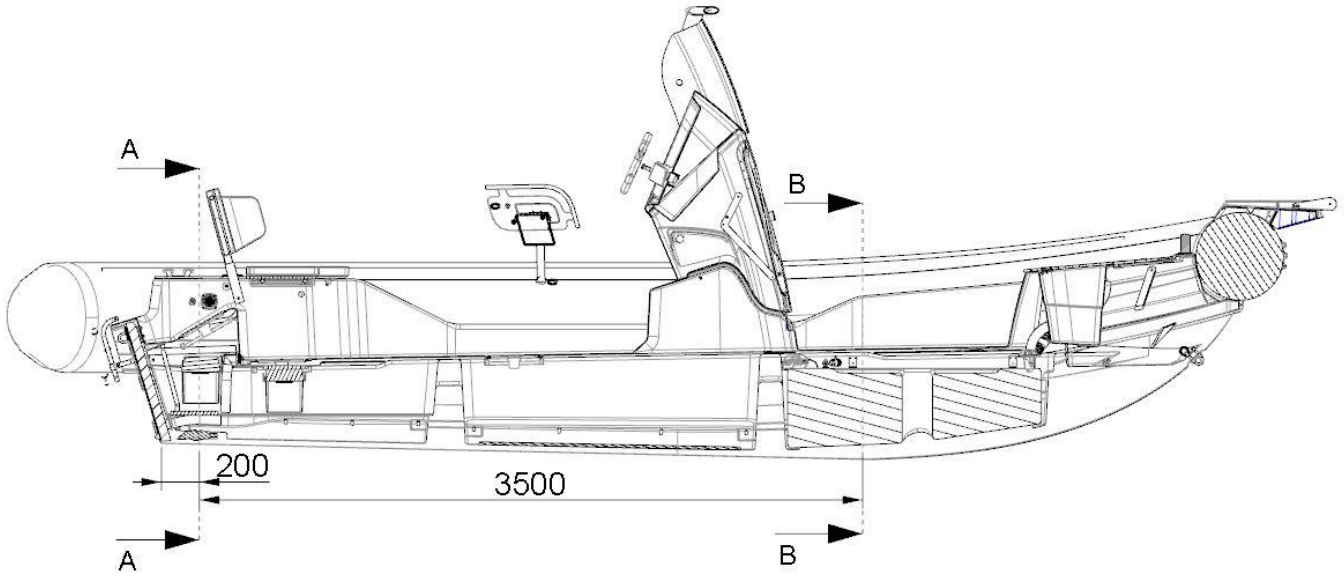

BER1
BER2
305
[12]
2405
[94,7]


COUPE BER1-BER1
357
[14,1]
222
[8,7]
115
[4,5]
23°
37°
281
[11,1]
547
[21,5]
859
[33,8]

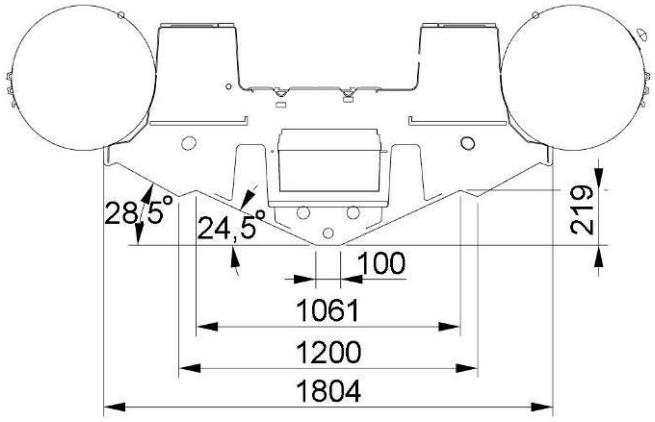

COUPE BER2-BER2
379
[14,9]
237
[9,3]
130
[5,1]
25°
38°
281
[11,1]
546
[21,5]
859
[33,8]

DESCRIPTION - Handling

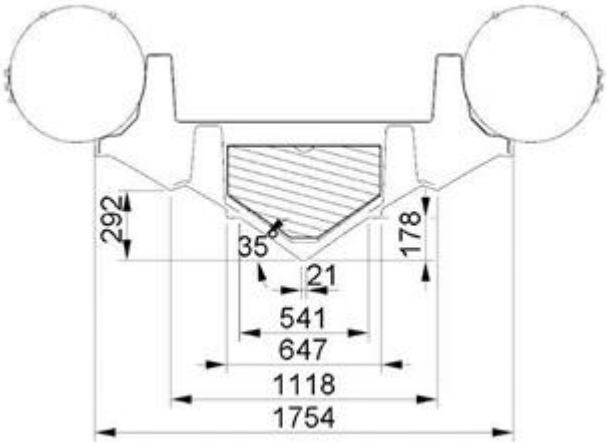
OPEN 7



SECTION A-



SECTION B-



I -5-3-Lifting

WARNING
The boat has no lifting fittings. Hoisting requires passing suitable lifting straps under the hull.

OPEN 5.5: 1300 mm
OPEN 6.5: 1400 mm
OPEN 7: 1800 mm*

* Estimate of the centre of gravity with the heaviest engine.

WARNING
Lifting must be carried out by professionals.

DANGER!
No passengers on board while hoisting

WARNING!
All equipment must be unloaded from the boat for lifting or davit handling.
Before launching the boat, open the aft drain hole to drain any rainwater from the bottom of the bilge (close the drain hole before launching).

BUOYANCY TUBE – Installing the buoyancy tube on the hull

II -1-MAINTENANCE OF THE BUOYANCY TUBE

OPEN 5.5/ OPEN 6.5
Your boat's buoyancy tube is made from STRONGAN DUOTEX ® **1100** Decitex, 1300 g/m² or NEOPRENE CSM-CR **1100** Decitex fabric, 1300 g/m².
OPEN 7
Your boat's buoyancy tube is made of NEOPRENE CSM-CR **1670** Decitex fabric, 1500 g/m².

The maintenance recommendations are specified in VOLUME I of the owner's manual.

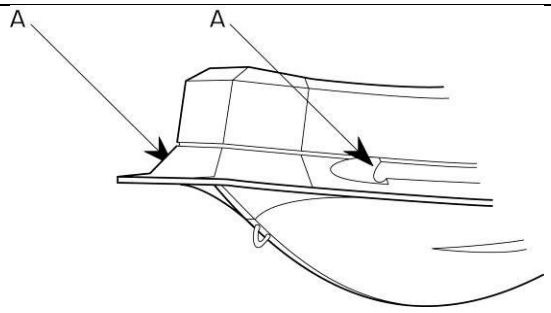
II-2 INSTALLING THE BUOYANCY TUBE ON THE HULL

If the buoyancy tube has been stored at a temperature below 0°C, leave it for 12 hours at room temperature (20°C) before unfolding it.

You can inflate the non-installed buoyancy tube (pressure 240 mb) and let it stabilize for around one hour. Then deflate it.

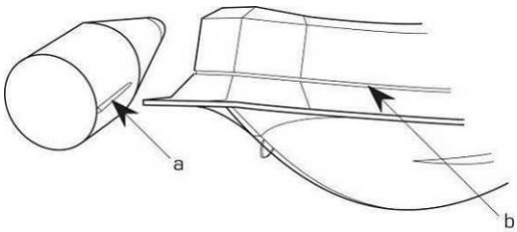
NOTE: the buoyancy tube is fitted to the hull with the buoyancy tube deflated

1



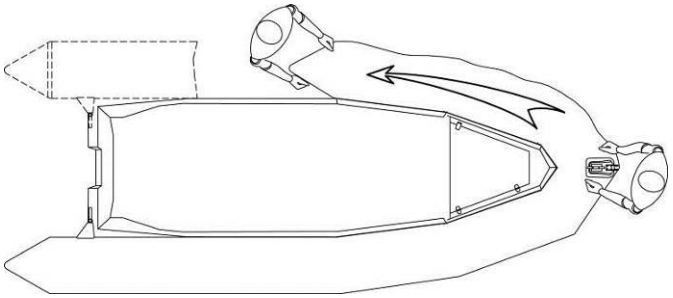
In order to facilitate the fitting of the buoyancy tube, apply liquid soap to the hull's rails (A).

2



Place the buoyancy tube bolt rope (a) in the hull rail (b) starting with the front of the hull. Pull the buoyancy tube to bring it to the water guard near the transom.

3



Repeat for the other side of the buoyancy tube.
The two protective flaps (sealing and exterior) should pass over the hull's nose.

II -3-SECURING THE PROTECTIVE FLAP

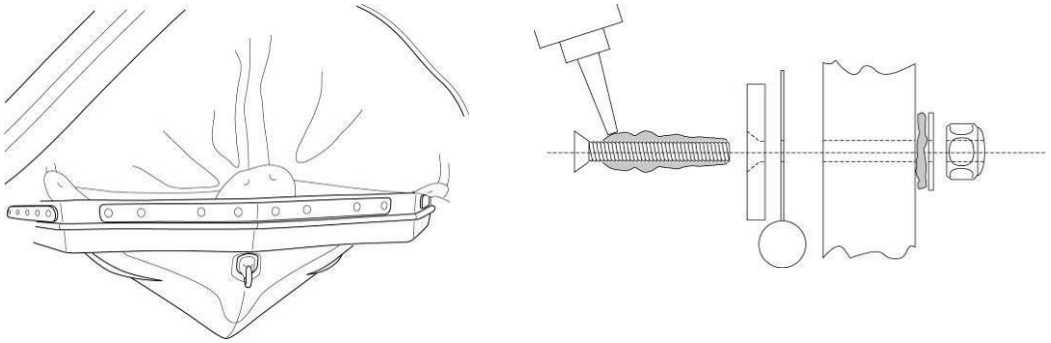
Fastening with inserts:

4

Place the buoyancy tube and make fast the outer flap (buoyancy tube deflated) using the stainless steel bars and the screws supplied in the buoyancy tube kit. To ensure that the assembly is mechanically secure, apply medium strength threadlocker to the screws.

Fastening with bolts:

4

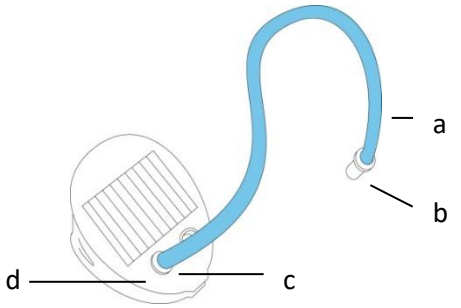


After inflating the buoyancy tube (see the chapters below), secure the outer flap using the stainless steel bars and screws provided in the buoyancy tube kit. Apply sealing compound on all the screws and in the hull holes to achieve watertightness.

II-4 INFLATING THE BUOYANCY TUBE

INFLATOR

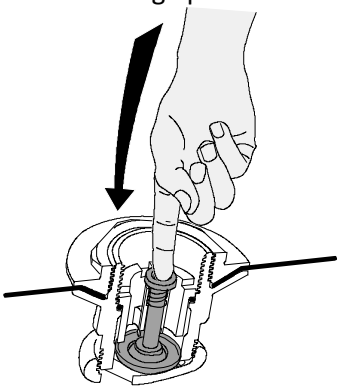
a. tube end
b. adaptor
c. tube base
d. inflation valve



NOTE: An electrical (12 V) high output inflation pump is available as an option (contact your dealer).

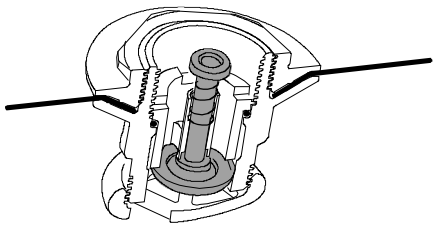
"EASY - PUSH" VALVES

To change position



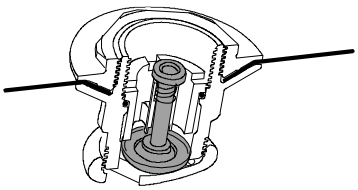
Push

In inflating position



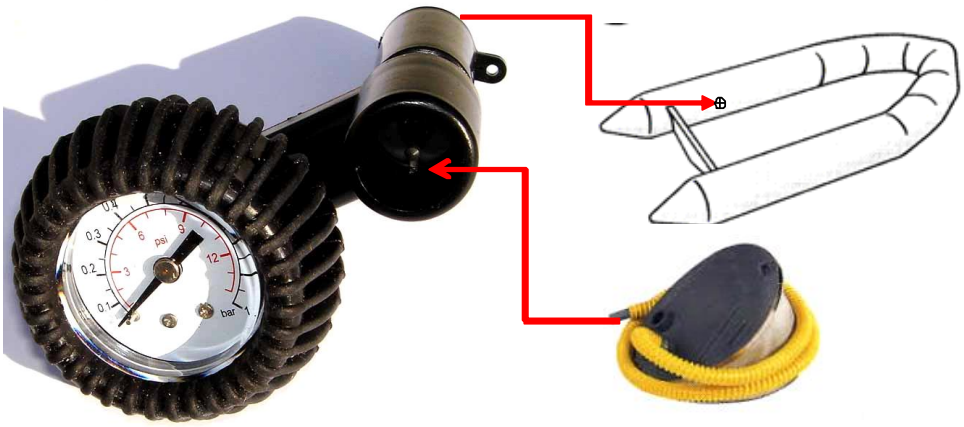
The membrane is closed, the plunger is up

In deflating position



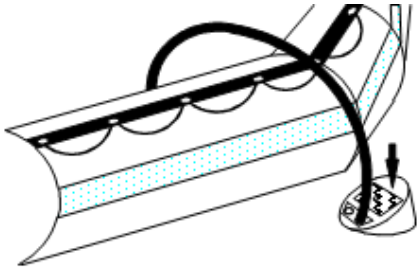
The membrane is open, the plunger is down

PRESSURE GAUGE



WARNING!
Do not use a compressor or compressed air cylinder.

INFLATION



1/ Place all valves in inflation position.

2/ Fit the adaptor that matches the diameter of the "easy-push" valve to the inflation tube tip.

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

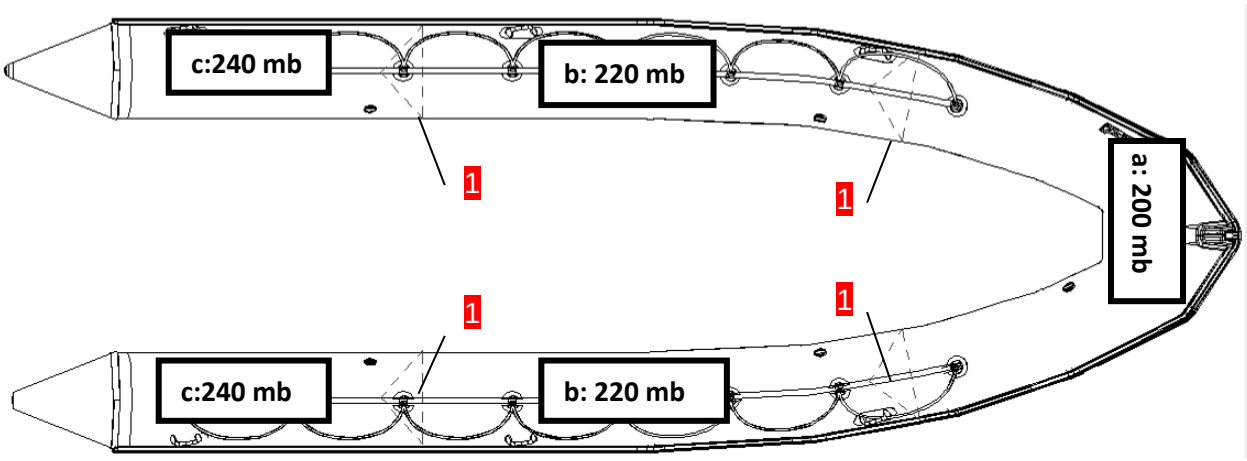
4/ Inflate the buoyancy tube, starting with the first compartment (a) at the bow, to 200 mb pressure.

5/ Then inflate the amidships tubes (b), to 220 mb read on the pressure gauge on the first compartment.

6/ Then inflate the stern compartments (c) to 240 mb, with the pressure gauge still on the first compartment. The partitions (1) enable the pressure between each tube to balance out.

7/ Inflation is completed: screw on the inflation valve plugs.

BUOYANCY TUBE - PRESSURE



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

II -5-PRESSURE

The buoyancy tube has **5** compartments. Each must be inflated to a pressure of **240 mb / 3.4 PSI**.
It is the buoyancy tube's correct pressure.

The ambient temperature of the air or the water proportionally influences the internal pressure of the buoyancy tube.	Ambient temperature	Pressure inside the buoyancy tube
	+ 1°C	+ 4 mb / + 0.06 PSI
	- 1°C	- 4 mb / - 0.06 PSI

It is therefore 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 particularly hot regions) and check that the pressure does not exceed the recommended pressure zone (from 220 to 270 mb).

RISK OF PRESSURE LOSS
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 the boat (temperature = 20°C), the temperature and pressure in the inflatable compartments will jointly drop (up to 120 mb) and **you must then re-inflate** them until the millibars lost due to the difference between air and water temperature are regained.
It is normal to observe a drop in pressure at the end of the day when the outdoor temperature drops.

BUOYANCY TUBE - PRESSURE

RISK OF OVERPRESSURE

Example:

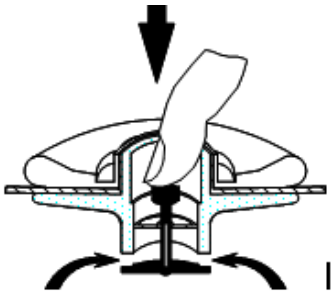
Your boat is inflated to its recommended pressure (240 mb/3.4 PSI) at the beginning or end of the day (low outside temperature = 10°C). Later in the day, your boat is left in the sun on the beach or on the deck of a boat (temperature = 50°C). The temperature inside the inflatable compartments may rise to 70°C (particularly for dark buoyancy tubes), 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.

IN THE EVENT OF OVERPRESSURE

Release air by pressing the valve plunger



III - Propulsion system

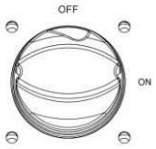
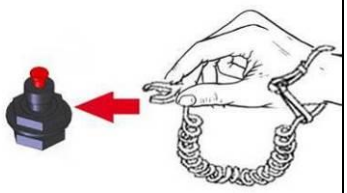
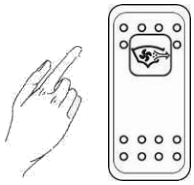
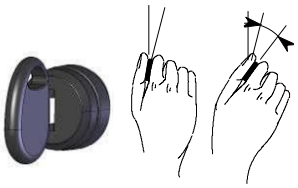
Comply with ZODIAC's recommendations and the engine manufacturer's recommendations regarding engine fitting.

For optimal use of your boat, please consult your dealer.
The engine bolts must be fitted through the transom using a screw hole sealing procedure (e.g.: using Sikaflex sealant).

IV - How to drive your boat

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

NOTE: Check that the buoyancy tube is correctly inflated.

1  Battery switch set to “ON”	**2**  Fuel valve to "ON".	**3**  Slide on and connect the stop switch lanyard*
4  Ventilate for 4 minutes	**5**  Throttle lever on neutral.	**6**  Operate the starter.

** If the pilot falls overboard, immediately stopping the engine considerably reduces the risks of serious or fatal injury caused by being run over by the boat. Always connect both ends of the stop switch lanyard correctly.*

DANGER!

Immediately turn off the engine as soon as a swimmer comes close to the boat. They risk being seriously injured by a rotating propeller.

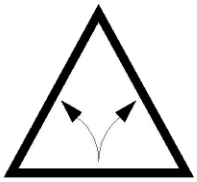
WARNING!

When underway, keep all lockers, deck hatches and the tank access hatch closed.

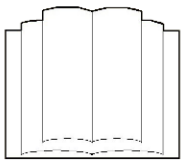
Breaking waves can be a significant danger for stability and cause flooding.

If a deck hatch seal is damaged, please contact your dealer to replace it as soon as possible.

Avoid abrupt manoeuvres at full speed. Reduce speed in waves for the comfort and safety of passengers.



30 KTS MAXIMUM



Manoeuvrability limited to 30 kts maximum.
Risk of loss of control in tight turns. Reduce speed before turning in any direction.

INSTALLATION AND CIRCUIT: FUEL

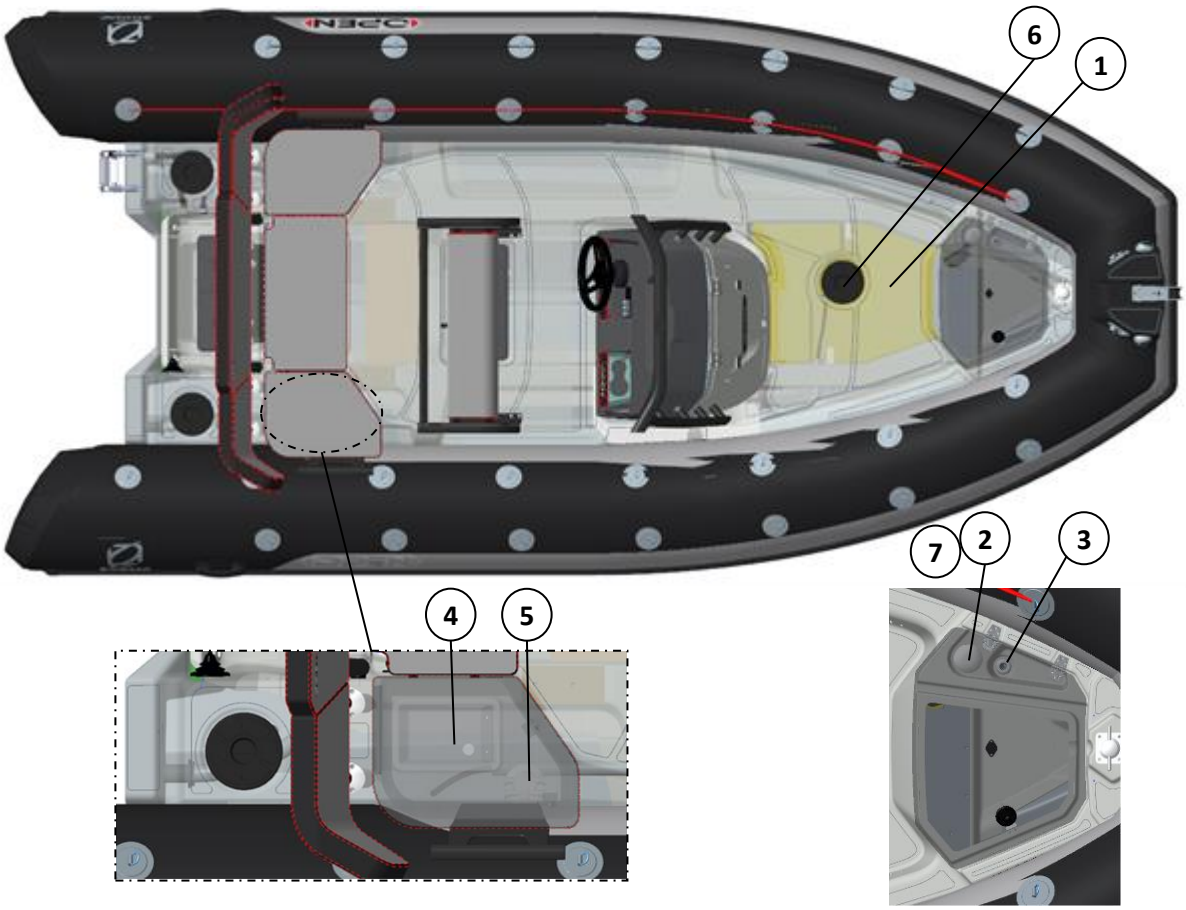
V-1 FUEL CIRCUIT

WARNING!

Do not use e10, e85 type biofuels, etc.

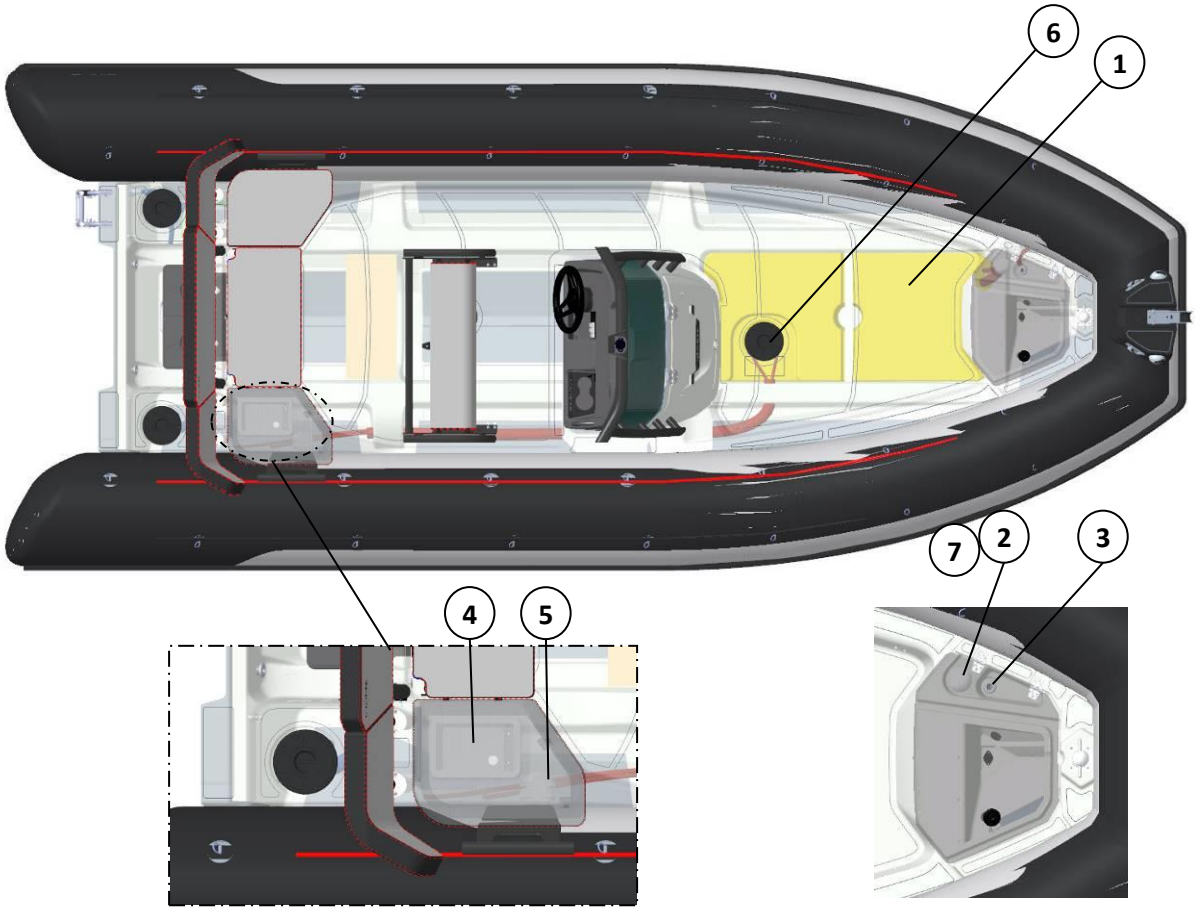
V -1-1-Location of items

OPEN 5.5



Ref.	DESCRIPTION
1	Fuel tank
2	Filling hole with cap
3	Fuel overflow drainage
4	Filter access hatch
5	Water/fuel separator filter
6	Fuel circuit valve
7	Tank vent

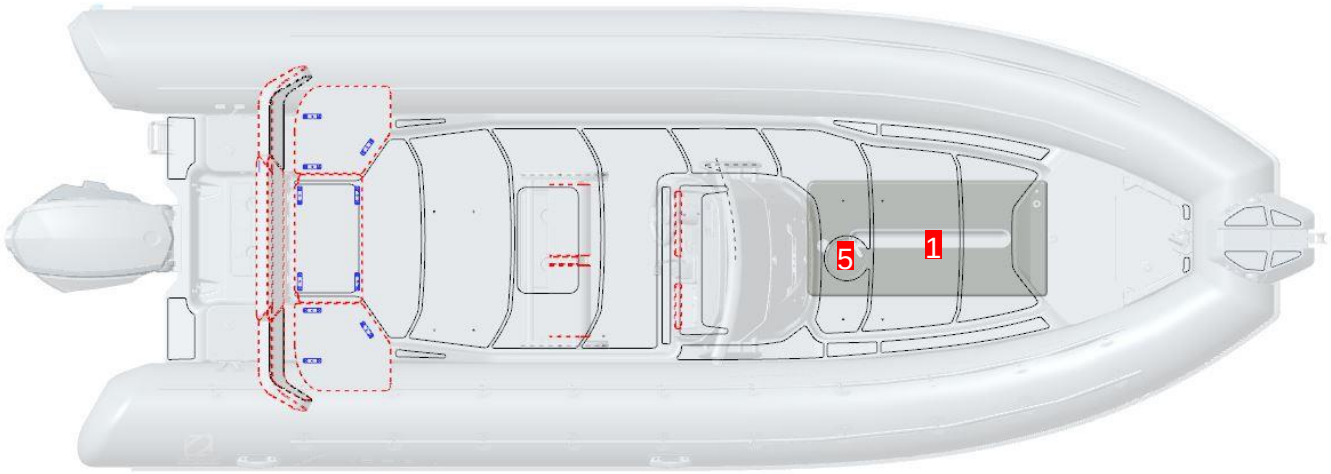
OPEN 6.5

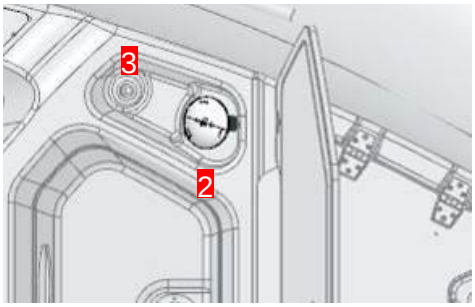


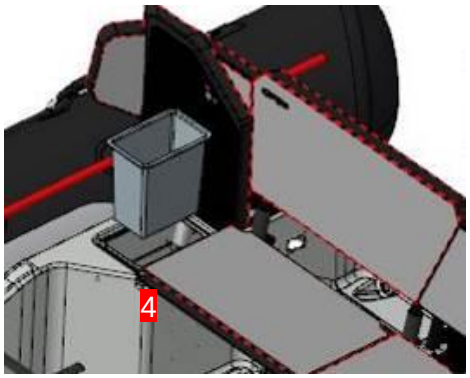
Ref.	DESCRIPTION
1	Fuel tank
2	Filling hole with cap
3	Fuel overflow drainage
4	Filter access hatch
5	Water/fuel separator filter
6	Fuel circuit valve
7	Tank vent

INSTALLATION AND CIRCUIT: FUEL

OPEN 7





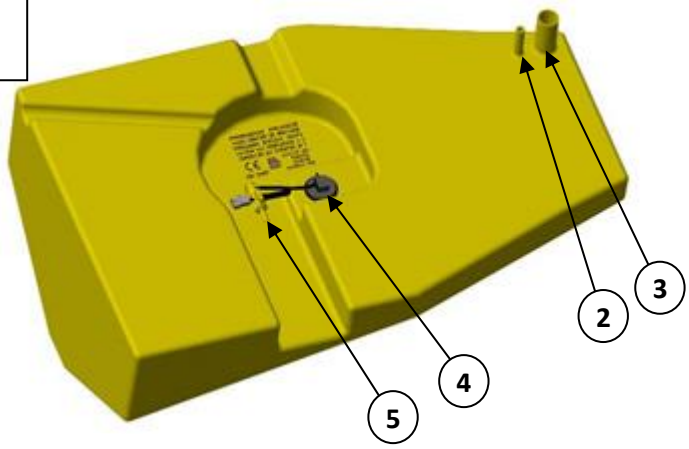


Ref.	DESCRIPTION
1	Fuel tank
2	Filling hole with vent on cap
3	Fuel overflow drainage
4	Water/fuel separator filter
5	Fuel circuit valve

V -1-2-Tank

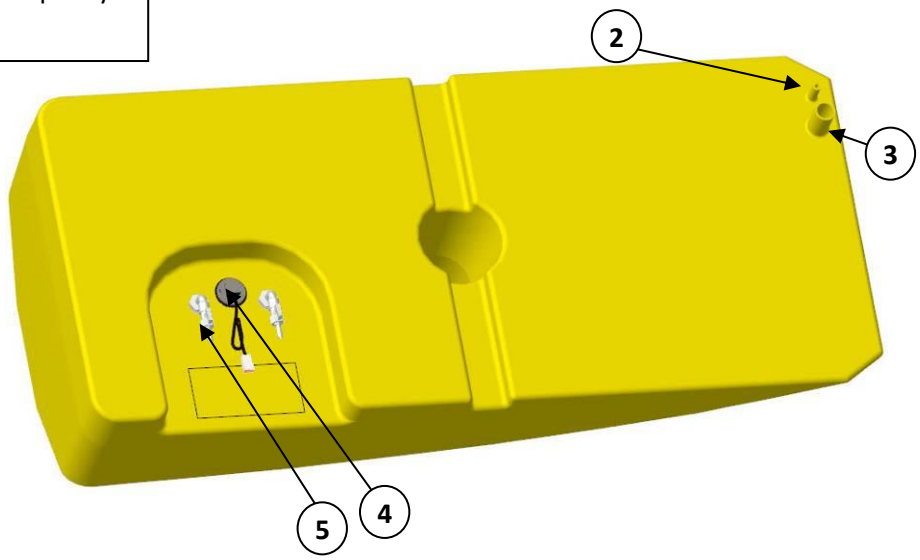
OPEN 5.5

Nominal capacity
= 100 l



OPEN 6.5

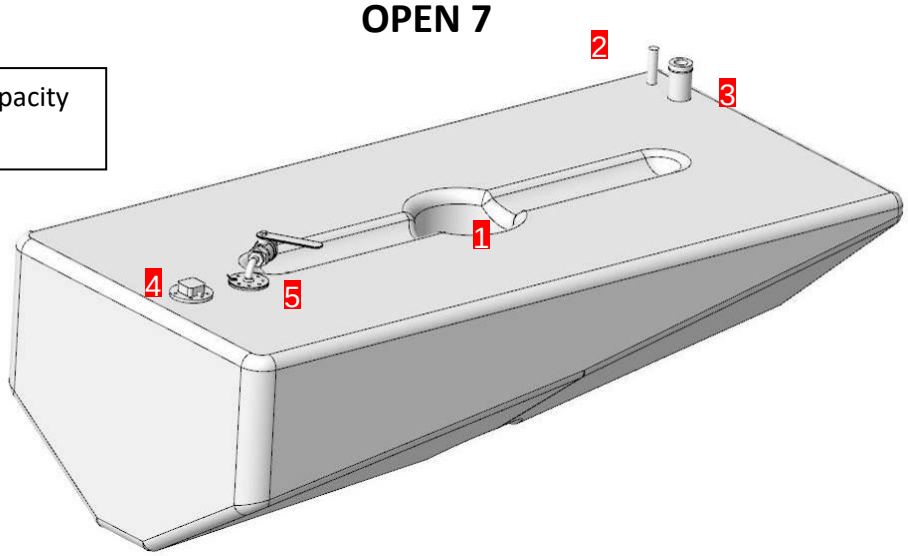
Nominal capacity
= 200 l



INSTALLATION AND CIRCUIT: FUEL

OPEN 7

Nominal capacity
= 200 l



Ref.	DESCRIPTION
1	Tank*, given capacity 210 litres
2	Vent outlet
3	Tank filler inlet
4	Gauge transmitter
5	Intake pipe with fuel shut-off valve

It may not be possible to use the full nominal capacity of the tank depending on the trim and the load. A 20% reserve is recommended.

WARNING!

It is vital to have a gauge dial. It is supplied with the engine. If your boat does not have one, contact your 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.
To connect it, refer to the electrical diagram.

V -1-3-Fuel/water separator filter

In order to protect the engine, a water / fuel separating filter is placed on the engine's fuel supply system.

Ref.	DESCRIPTION
1	Water/fuel separator filter
2	Replaceable filter cartridge

Make sure that there is no water in the metal bowl each time you use your boat:

- Slightly unscrew the drain cap (do not remove it completely);
- Drain the water;
- Screw the drain cap back on if only fuel remains in the bowl.

Do this more often if your engine is not functioning correctly.

INSTALLATION AND CIRCUIT: FUEL

WARNING!
It is essential to replace the cartridge every 50 operating hours. Contact the dealer network in order to purchase a replacement cartridge.

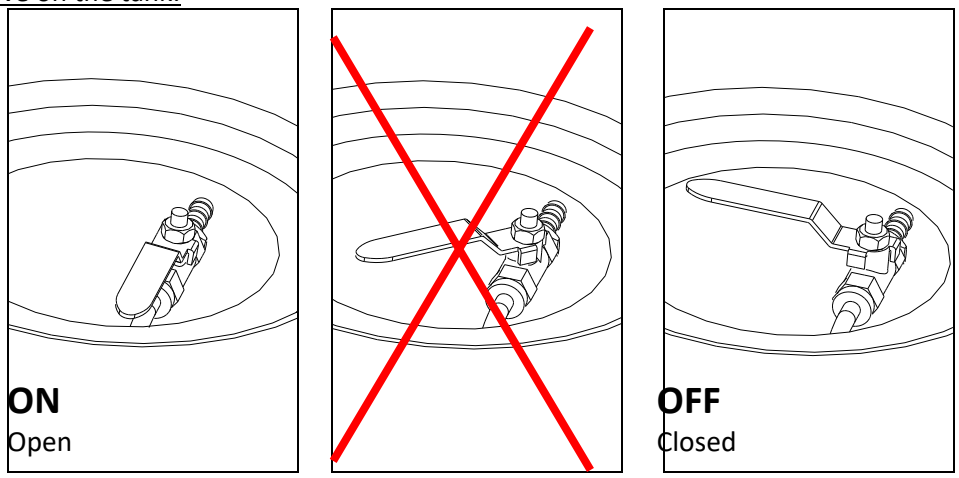
CHANGING THE FILTER CARTRIDGE
Follow ZODIAC's recommendations and those of the filter manufacturer. Follow the manual or the engine manufacturer's instructions.

Place a draining funnel under the cartridge to be replaced.
Before replacing the filter, the pressure in the fuel feed system must be released.

V-1-4-Using the fuel circuit cut-off valves

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

Fuel circuit valve on the tank:



WARNING:
In the event of a fire on board, turn off the engine and shut-off the fuel circuit valves.

V -1-5-Recommendations

WARNING:

- **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.**
- **Ensuring that the fuel tank is full before each outing prevents condensation from forming.**
- **Have the tank cleaned every 5 years.**
- **Check that all hose clamps are tight.**
- **When you drain the filter, do not empty the water into the boat. Place a recovery tray under the filter.**
- **Shut off the power supply before removing the filter cartridge.**
- **Carefully read the information provided in the filter's instruction manual.**
- **Petrol is extremely flammable. Make sure that the engines are turned off before working on the fuel system.**
- **Do not smoke; keep all flames or incandescent material well away from the work area.**
- **Never drill the tank area with a drill bit protruding more than 50 mm from the drill head (mark on the deck by a hatch) and do not use screws over 20 mm long.**

DANGER!

Do not store flammable products in the rear compartment. It is strictly forbidden to store a spare fuel tank.

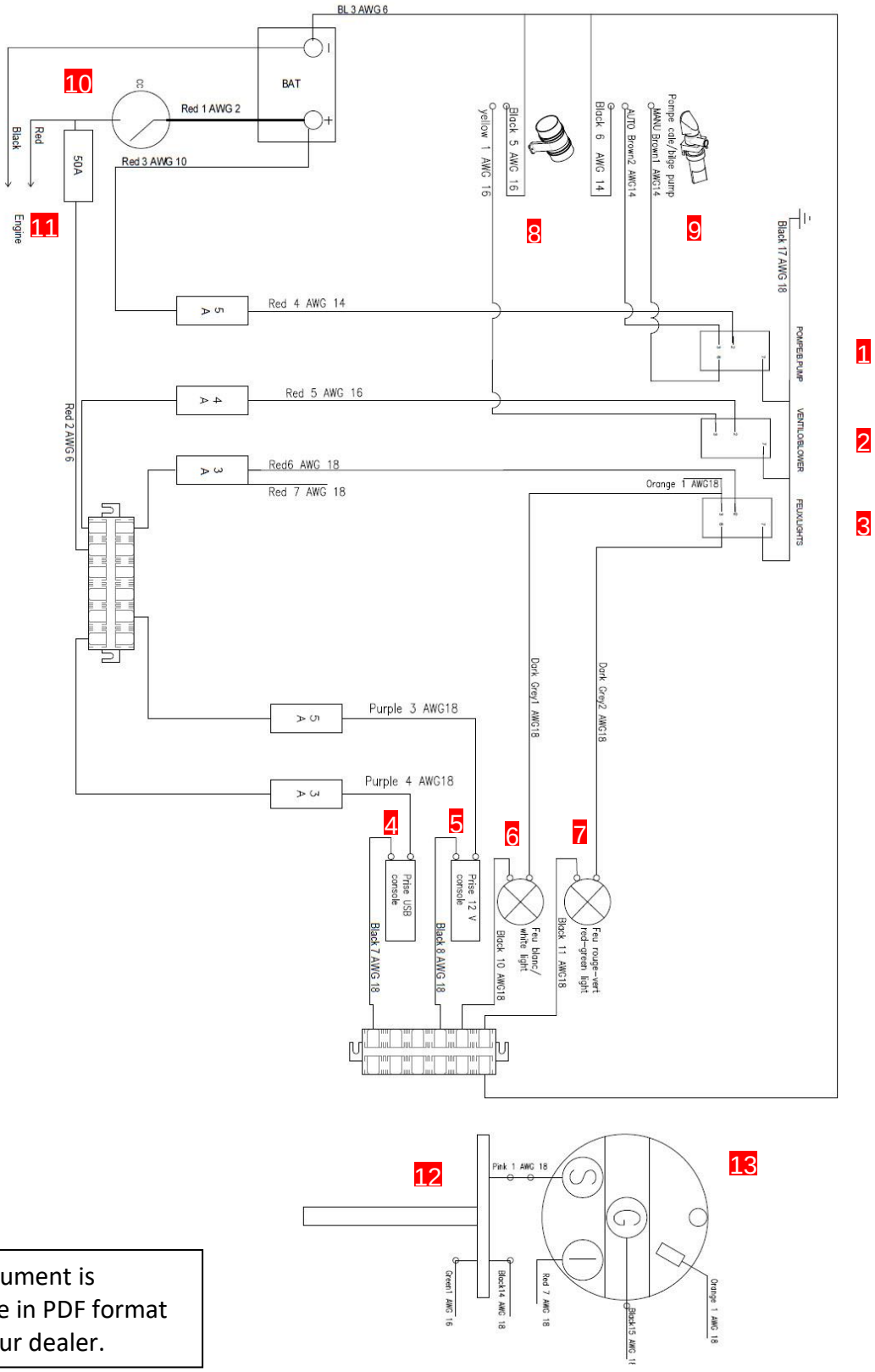
WARNING!

Do not, under any circumstances, change the fuel installations, or allow unqualified people to carry out modifications to these installations.

INSTALLATION AND CIRCUIT: ELECTRICAL

V -2- ELECTRICAL CIRCUIT

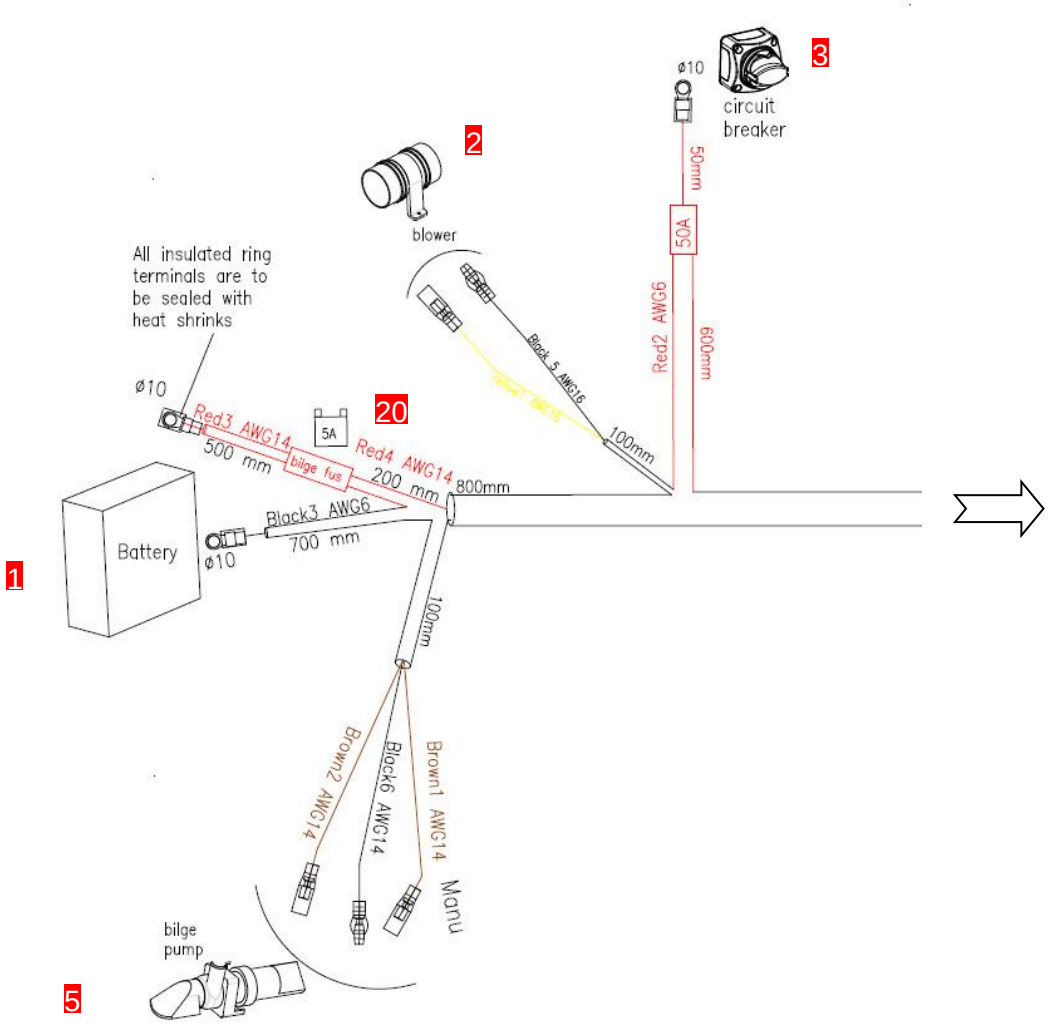
V -2-1- General wiring diagram



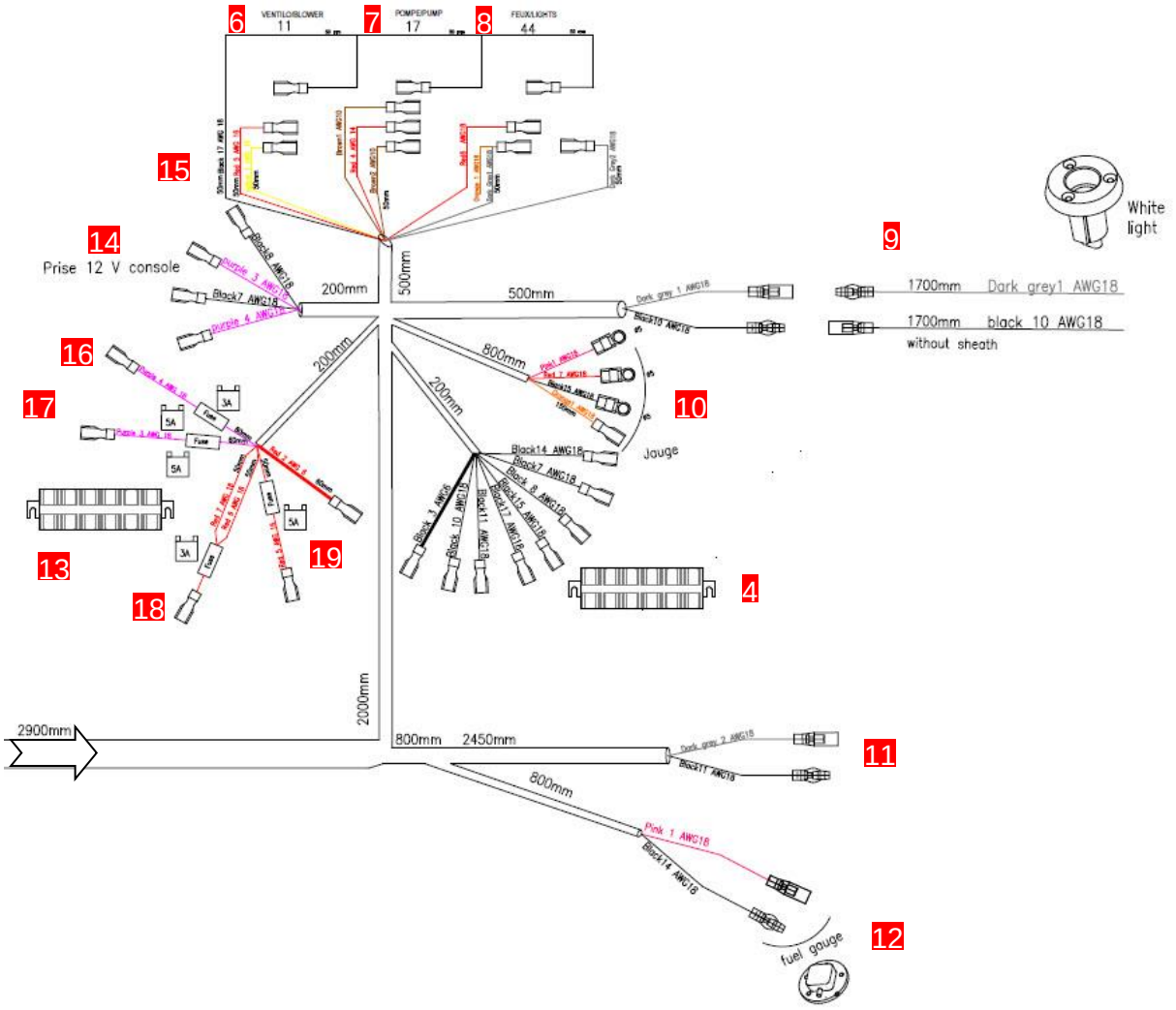
The document is available in PDF format from your dealer.

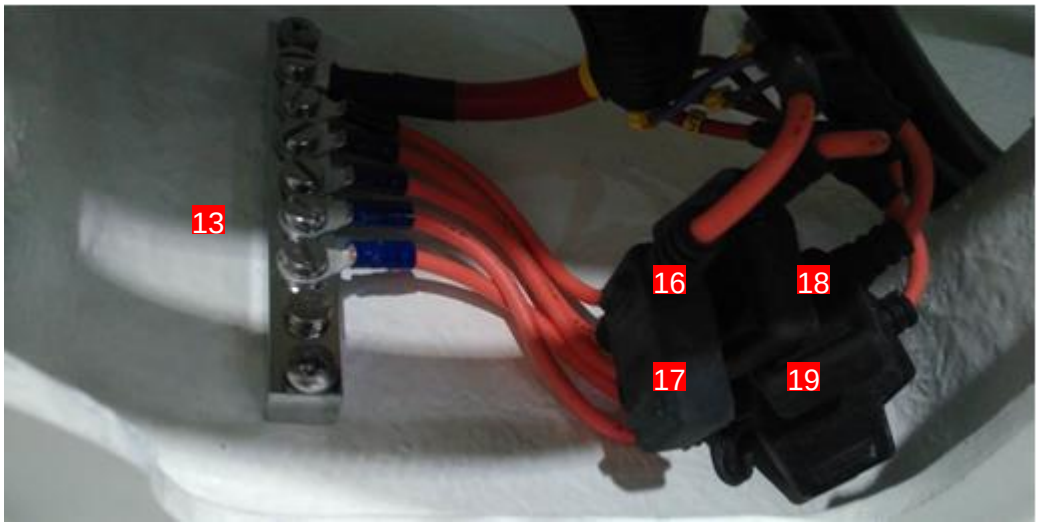
Ref.	DESCRIPTION
1	Bilge pump switch
2	Bilge fan switch
3	Navigation light switch
4	USB plug (console)
5	12 volt plugs (console)
6	White light
7	Red / green light
8	Bilge fan
9	Bilge pump
10	Circuit-breaker
11	General 50 A general fuse
12	Fuel gauge dial
13	Fuel gauge transmitter

V -2-2-General wiring plan



INSTALLATION AND CIRCUIT: ELECTRICAL



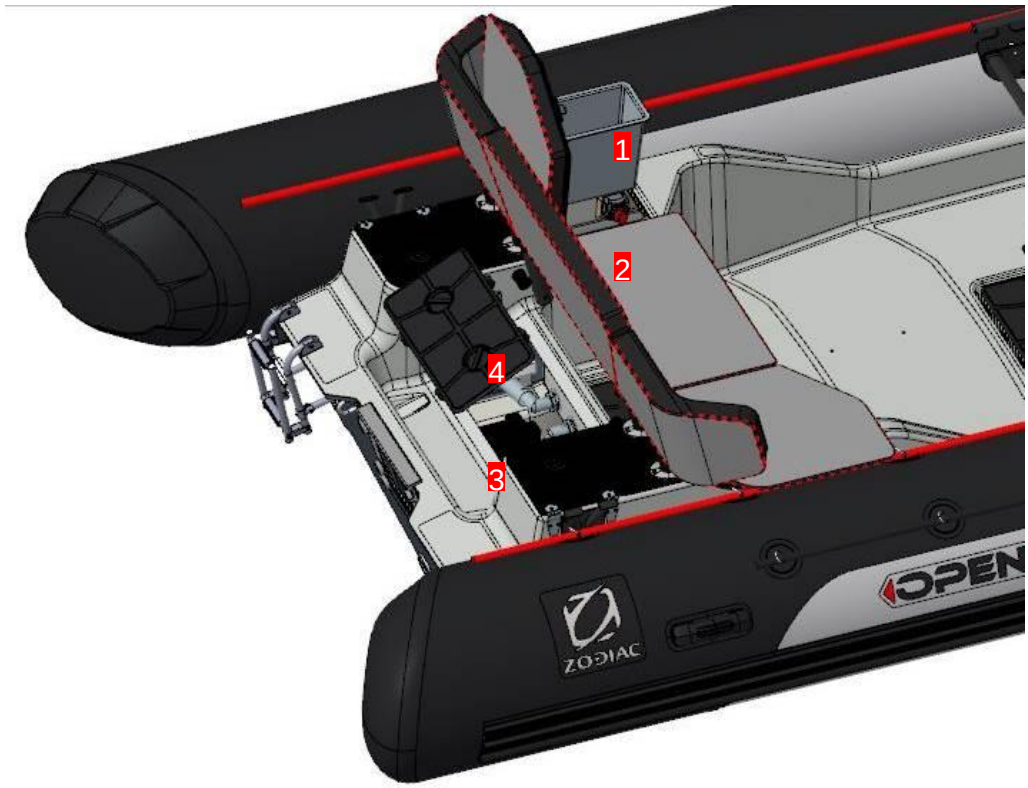


INSTALLATION AND CIRCUIT: ELECTRICAL

Ref.	DESCRIPTION
1	Battery connection
2	Bilge fan connection
3	Circuit breaker connection
4	Bus bar ground connection
5	Bilge pump connection
6	Bilge fan switch connection
7	Bilge pump switch connection
8	Navigation light switch connection
9	White light connection
10	Fuel gauge dial connection
11	Red green light connection
12	Fuel gauge transmitter connection
13	Positive bus bar connection
14	12 Volt power socket connection (console)
15	USB port connection
16	3A fuse, USB port Purple 4 AWG18
17	5A fuse, 12-volt outlet Purple 3 AWG18
18	5A fuse, navigation lights Red 6 & 7 AWG18
19	5A fuse, bilge fan Red 5 AWG16
20	5A fuse, bilge pump Red 3 AWG10

INSTALLATION AND CIRCUIT: ELECTRICAL

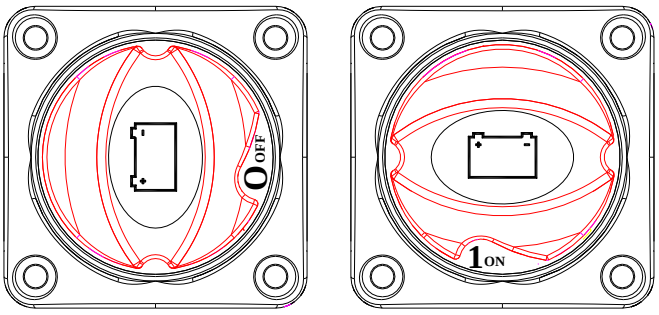
V -2-3-Location of items



Ref.	DESCRIPTION
1	Circuit-breaker access
2	Circuit-breaker
3	Battery box
4	Battery maintenance access hatch

V -2-4-Circuit-breaker

When you are no longer using your boat, set the circuit-breaker to the OFF position.



WARNING

Cut the engine before setting the circuit-breaker to the "OFF" position.

V-2-5-Battery (not supplied):

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

MAINTAIN YOUR BATTERY:

- **Keep the battery clean and dry in order to avoid premature wear.**
- **Tighten and maintain the terminal lugs by greasing them regularly.**

WARNING!

The water from the water supply system contains mineral which damages batteries.
You should thus always top up with distilled water.
When you install the battery, make sure that no fuel tank, fuel filter or fuel line connector is within 12 inches (305 mm) of the surface of the battery.

WARNING

- **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, open flames, cigarettes, etc.**
- **When charging or using a battery, work in a well-ventilated environment. Always protect your eyes when working close to a battery.**

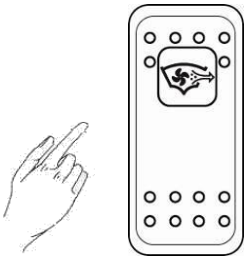
NOTE:

- If you do not plan to use your boat 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.
- If the battery is being stored for a longer period, check electrolyte density at least once a month and recharge the battery as soon as the density is too low.
- Electrolyte density: 1.28 at 20°C.

V -2-6-Bilge fan

Use this button to ventilate the engine compartment before starting.

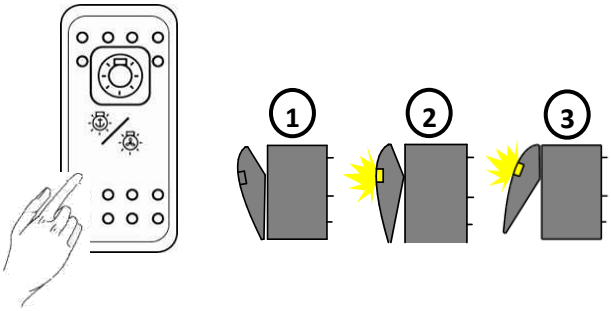
To do this, turn on the ignition key and **ventilate 4 minutes**.



V -2-6 Navigation lights

Press this button to switch on the navigation lights. There are 3 positions.

① Off
② White light position (at anchor)
③ White light, red light, and green light position.



V -2-7-Wiring an accessory

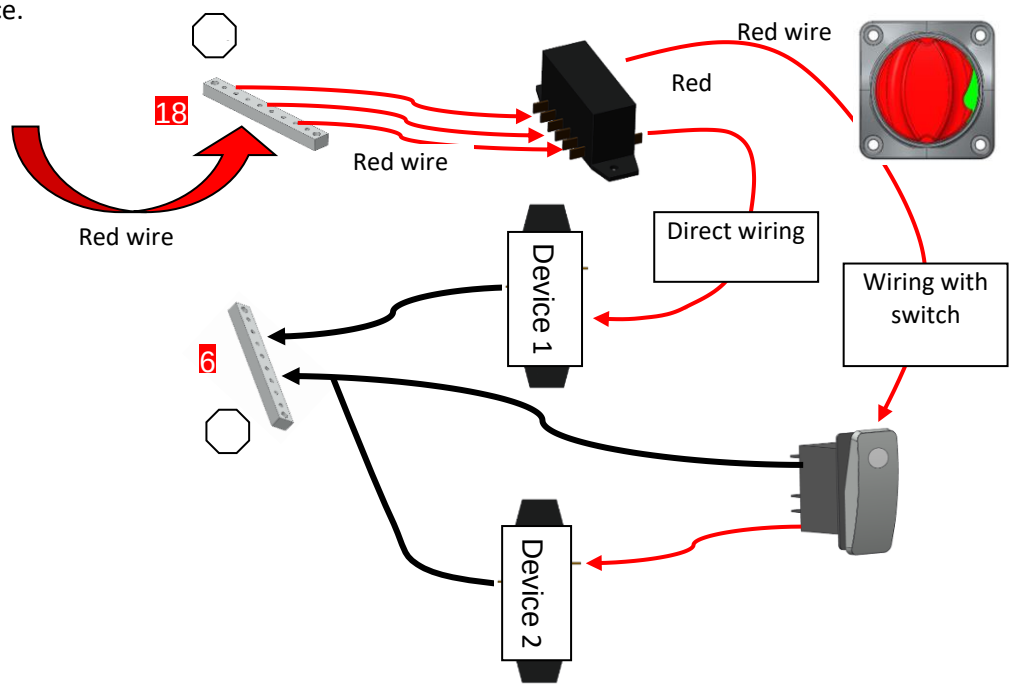
1/ Choose a free fuse location..

2/ Connect the power supply of your accessory to the terminal corresponding to this slot using a 6 mm female tab type terminal.

3/ If you have to add cable for the connection, use cable with a cross-section of at least 1.5 mm² that complies with "marine" standards (UL1426 or SAE J378 or SAE J1127 or SAE J1128 or more generally meeting 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 15 A and greater than the load current of your device.



V -2-8-Wiring options:

A bilge pump is fitted as standard to the boat. However, it is also possible to add extra 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	
Windscreen wipers	
Radio	
Depth sounder	
GPS	
Searchlight	
Alarm system	
Refrigerator	
VHF	
Σ	336 W max.

and

B	
Cigarette lighter (standard)	
Miscellaneous lighting	
Horn	
Miscellaneous electronic equipment	
Shower pump	
Max. power	102 W max

WARNING

You must make sure that the total power of the accessories you add in column A is 336 W (28 A) or less AND that the max power of an accessory in column B is 102 W (8.5 A) or less.

The cross-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.

You may connect the options directly to the positive and negative console ground terminal (within the max. power limits), using an approved fuse-holder.

NOTE: If you are getting several pieces of electrical equipment installed, the total immediate consumption could potentially exceed your outboard engine's charge capacity.
For example, the electrical wiring harness can accept instant consumption of 570 W (including navigation lights and bilge pump), which is a little less than a 48 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 emptying the battery and not being able to restart the engine.

INSTALLATION AND CIRCUIT – CONNECTION OF OPTIONS

Example 1

You want to add:

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

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

and

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

CONCLUSION

Example 2

You want to add:

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

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

and

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

CONCLUSION

Example 3

You want to add:

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

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

and

B	
Cigarette lighter (standard)	
Miscellaneous lighting	
Horn	
Miscellaneous electronic equipment	120 W
Shower pump	
Max. power	120 W (> 102 W)

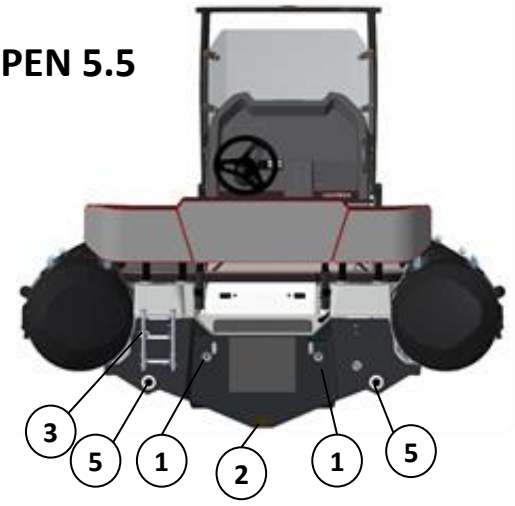
CONCLUSION

NOTE: Some manufacturers will indicate the amperage rather than the absorbed power. With direct current from a 12 V battery, as is the case here, simply multiply by 12 to obtain the power.

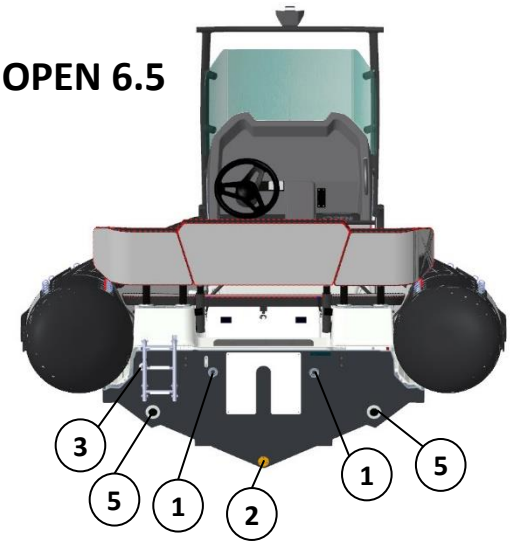
V-3 INSTALLATION OF THE DRAINING SYSTEMS

V-3-1-Description of the essential functional elements

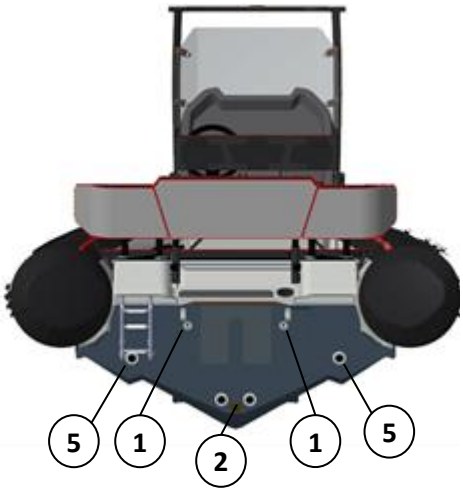
OPEN 5.5

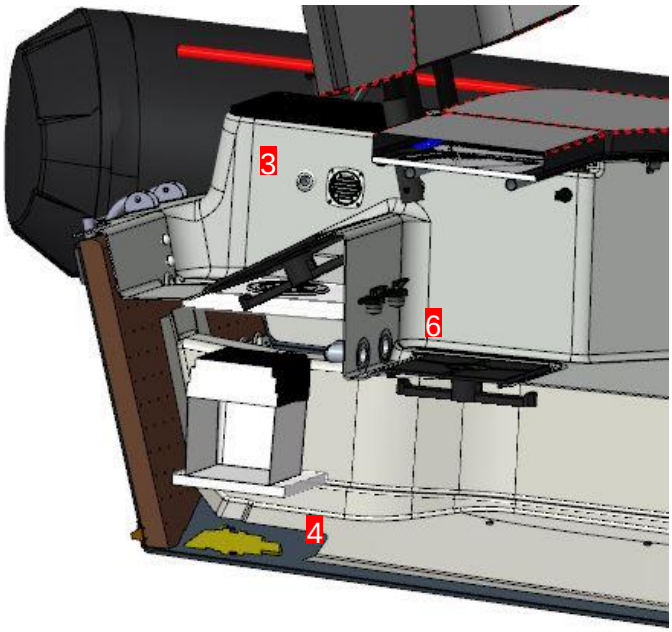


OPEN 6.5



OPEN 7





Ref.	DESCRIPTION
1	Engine recess drain
2	Hull scupper
3	Bilge pump outlet
4	Bilge pump
5	Through-hull with membrane
6	Thru-hull plug

V-3-2-Thru-hull plugs

Out of the water (on trailer, cradle, etc.)

- **Plugs in position (1)**

In the water

- **While underway, plugs inserted in the thru-hull (2)**
- **<u>Water draining procedure.</u>**
  - **When stopped: plug in position (1), then navigate in planing position (> 6 knots). Place parts back in position (2) when the water is drained.**
  - **At anchor:**
    - **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 parts in position (1) or (2).**
    - **Long-term or risky anchorage: plugs out (1).**

<u>WARNING</u>

If the boat takes in large amounts of water from the OUTSIDE (heavy rain, wake,…) and the through-hulls are plugged, the boat risks being submerged (swamped). The water taken on may 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.

INSTALLATION AND CIRCUIT - DRAINING

V-3-3 Bilge pump:

USE

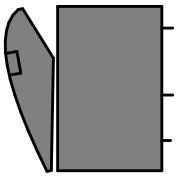
The bilge pump is not wired to the battery switch and operates independently; the control switch is always ON.

① Automatic operation (set position): in this position, the bilge pump operates automatically. The indicator light is on.
When at anchor, even for several months, it is normal that the bilge pump indicator is on. A pilot light will not empty your battery.

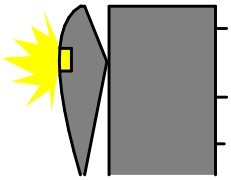
② Off: in this position (set position), the bilge pump is off. The indicator light is off.
This position should almost never be used, except when the boat is out of the water and sheltered.

③ Forced operation: the switch has to be held depressed to operate it. As soon as you release the switch, it returns to automatic position (1).

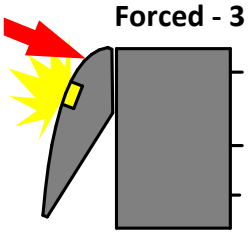
Position Stop - 2



On position Automatic - 1



On position Forced - 3



ZODIAC recommends the use of a tarpaulin or mooring cover in order to prevent water ingress in the event of rain.

Ensure that the system is in working order (unblocked pipes, plugs out, bilge pump switch on automatic mode, battery charged).

WARNING
At anchor, set the bilge pump switch to the automatic position.

WARNING!
The bilge pump system is not designed to keep in check water coming from a breach in the hull. It is the owner's responsibility to have at least one bailer on board with a system to prevent its accidental loss.

WARNING!

Regularly check that the bilge pump works (see instructions) and clean the intake strainers of any debris likely to cause a blockage.

The flow rate of your pump is about 45 litres per minute. It may be accessed via the rear locker.

V 3-4-Hull drain hole:

Out of the water (on trailer, cradle, etc.)

Open position, drain plug removed.

In the water

Closed position, drain plug fitted.
(Make sure the drain plug is properly closed/tightened)

V-4 STEERING

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

For optimal use of your boat, please consult your dealer.

V-5 FIRE

WARNING

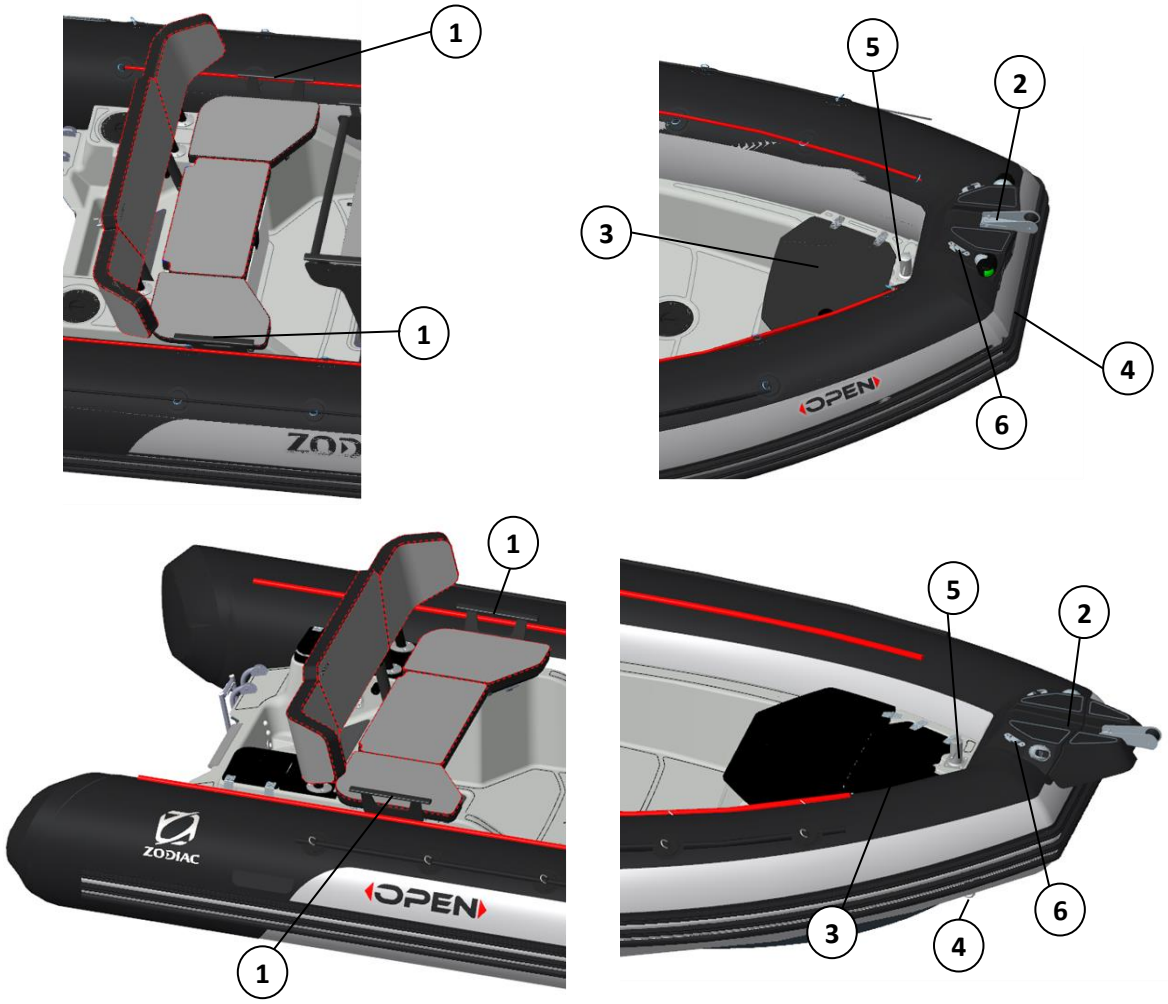
- **We recommend you keep an extinguisher on board, and comply with the laws applicable in your country.**
- **Do not place flammable material close to or above cooking equipment.**

The boat is supplied without a fire extinguisher; complying with the national regulations of the country in which your boat is registered is your responsibility. When in use, the boat must be fitted with portable extinguishers.
The recommended position for the extinguisher is inside the stern locker or console.

- Take care to keep the bilges clean and check at regular intervals that there are no fuel leaks or vapours.
- Never leave the boat unattended when cooking and/or heating equipment is in use.
- Do not smoke while handling gas or fuel.
- Do not obstruct the safety controls, e.g. fuel shut-off valves, electrical system switches.
- Do not fill the fuel tank when the engine is running or when cooking equipment is operating.

V-6- ANCHORING/MOORING

OPEN 5.5 / 6.5



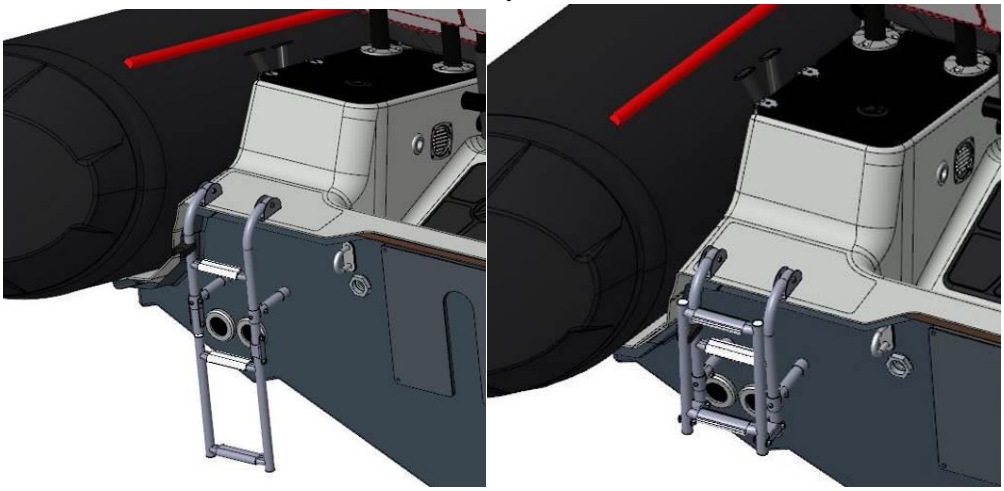
Ref.	DESCRIPTION
1	Cleats
2	Polyester bow roller with folding stainless-steel bow roller and sheave
3	Anchor locker
4	Bow chain plate
5	Mooring cleat
6	Fairleads

WARNING

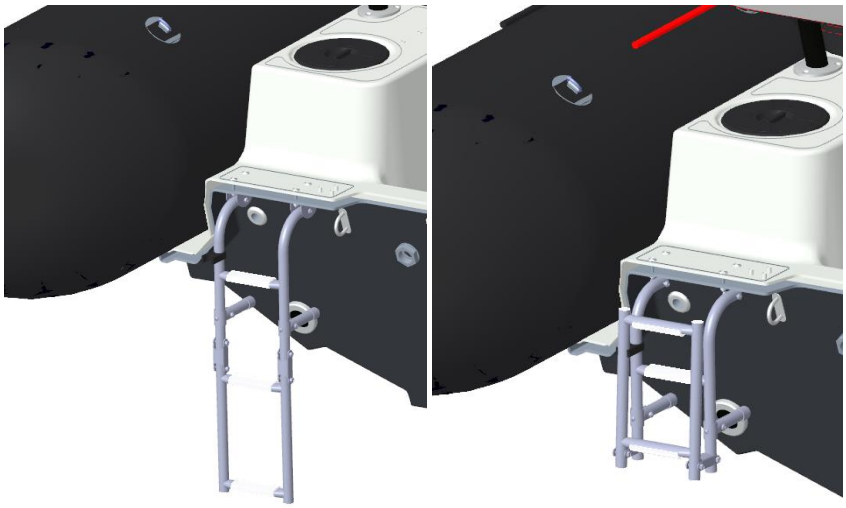
- **For permanent mooring, use the bow chain plate or cleat.**
- **Choose your anchor chain according to the length and weight of your boat (Do not hesitate to contact your Dealer).**

V -7-BOARDING

OPEN 5.5 / OPEN 7

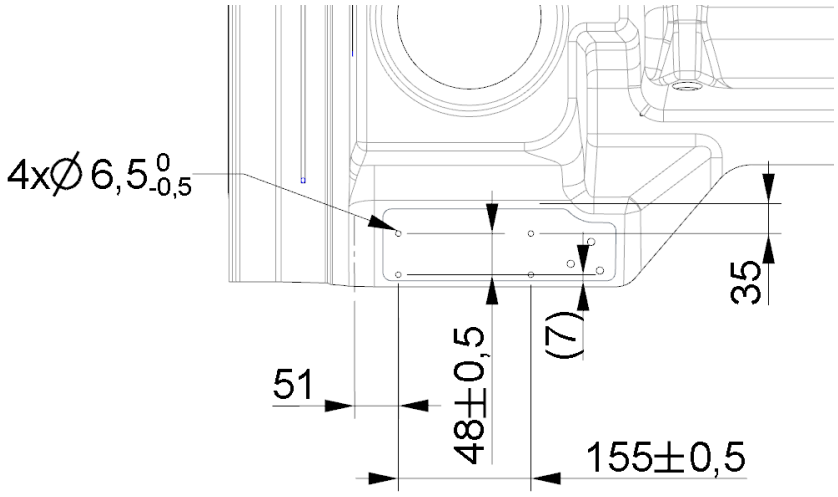


OPEN 6.5

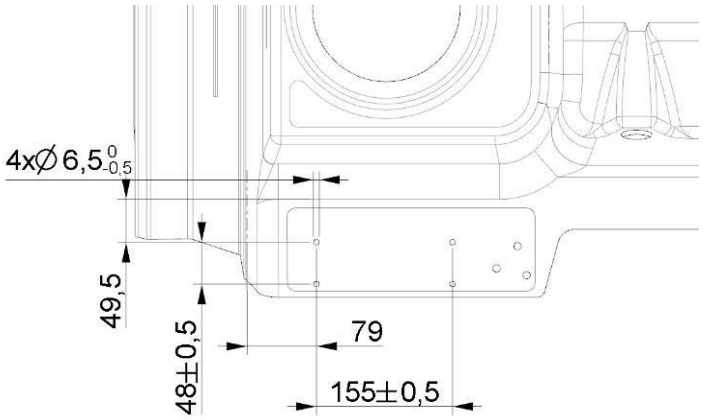


POSITION OF THE LADDER

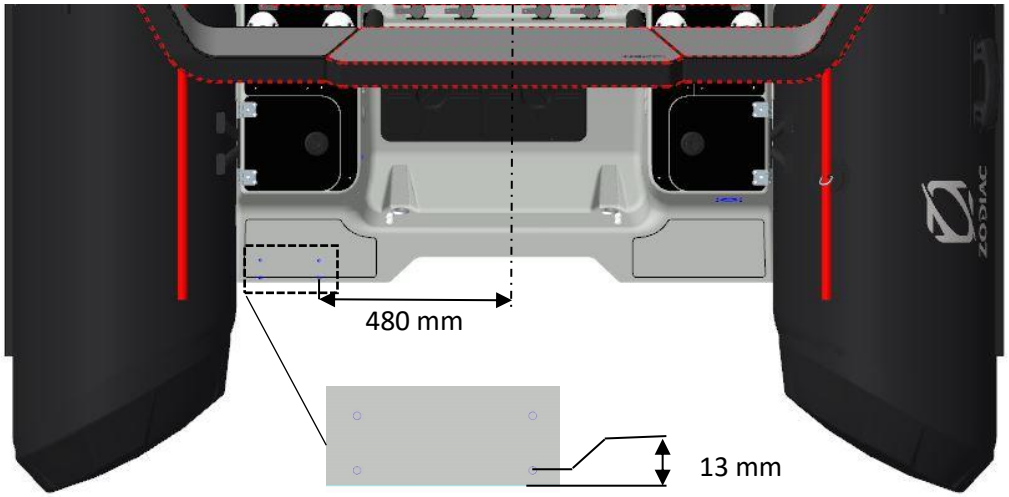
OPEN 5.5



OPEN 6.5



OPEN 7



DANGER!

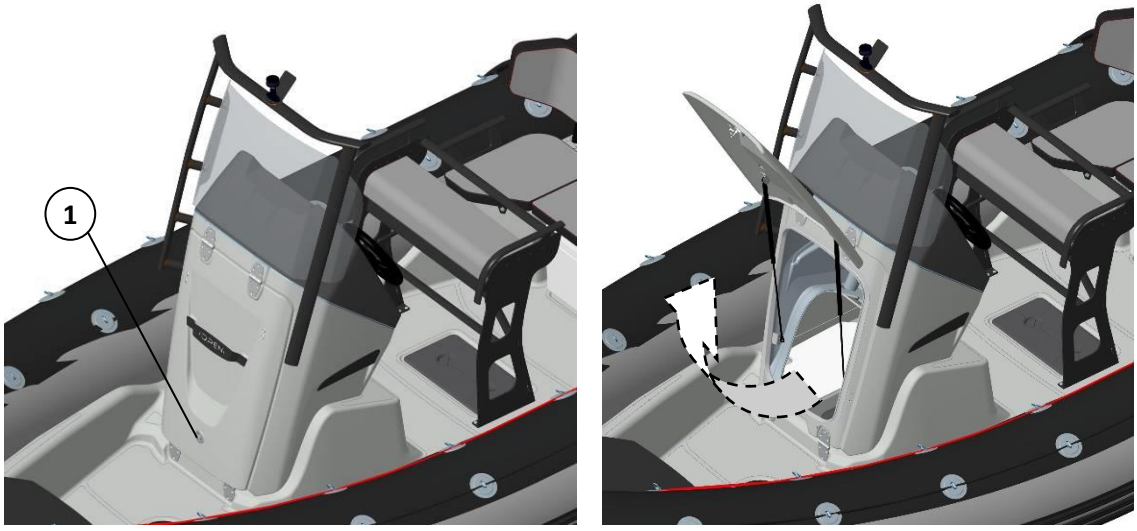
Check that the engine is switched off before anyone climbs back on board using the rear ladder.

WARNING

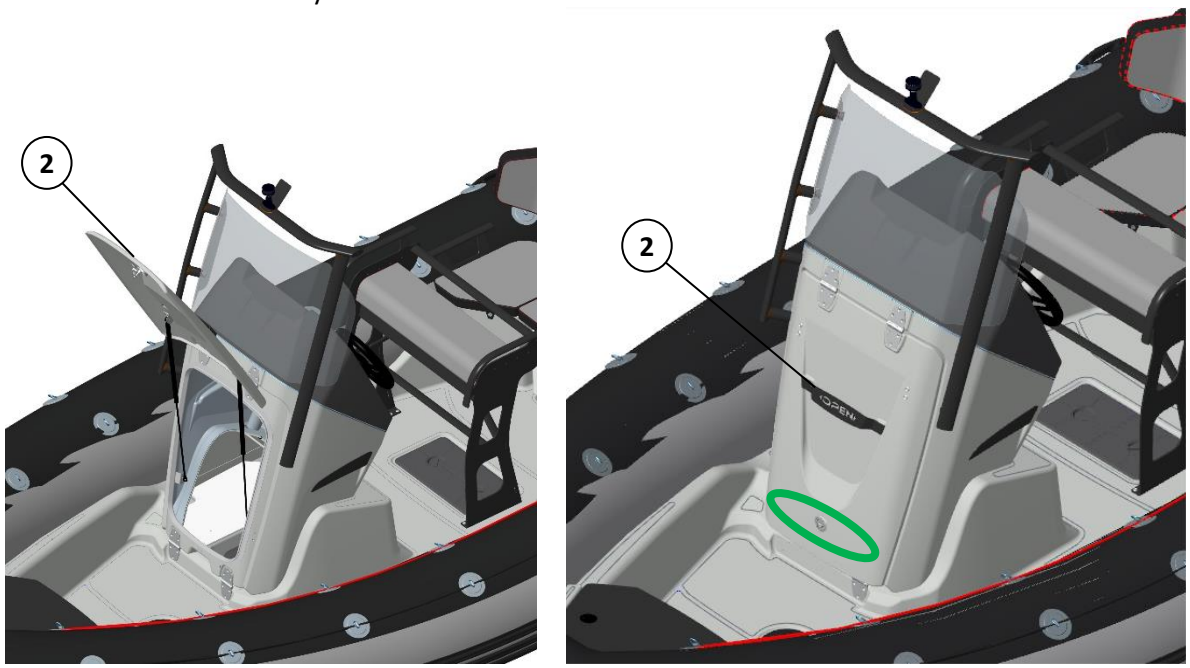
When the boat is used solo, if the ladder cannot be deployed from the water, the ladder should be permanently deployed.

V -8-OPENING THE DOOR ON THE FRONT OF THE CONSOLE

OPEN 5.5 / 6.5

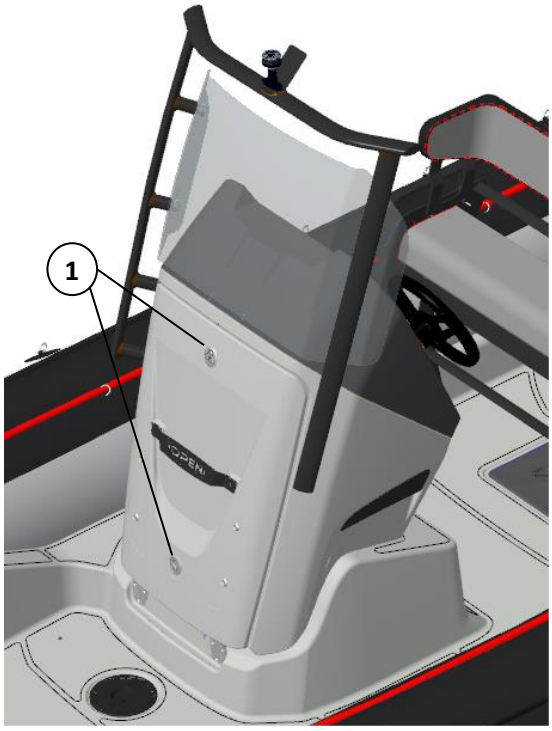


Unlock the latch with the key **1** and use it to lift the console door.

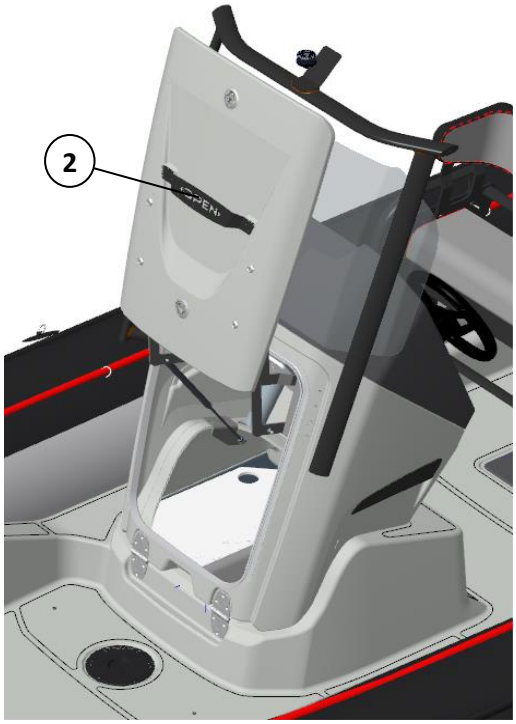


Use the handle **2** and the end of the door to close the console.
Press firmly on the area circled in green to lock the console.

OPEN 7



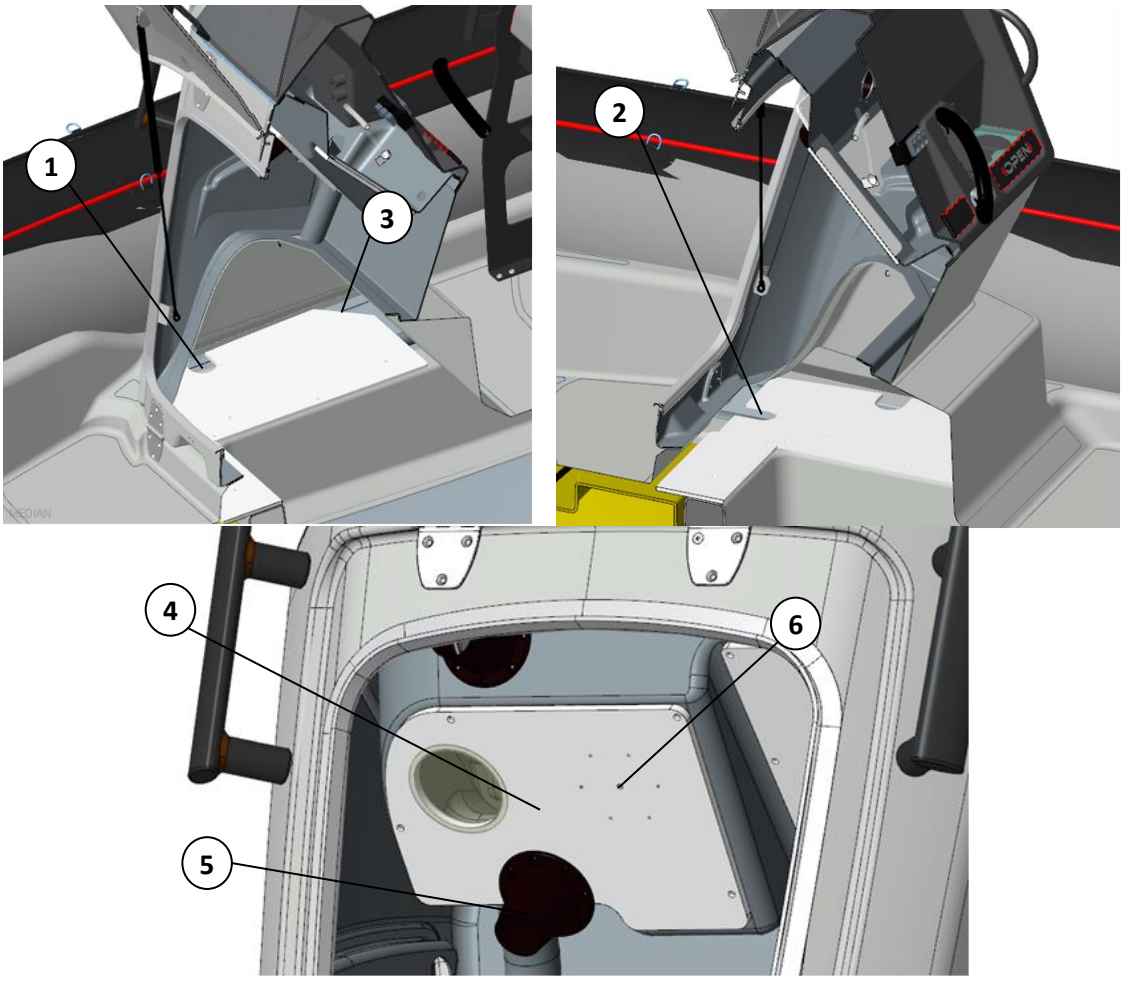
Unlock the two latches with the key **1** and use them to lift the console door.



Use the handle **2** to close the console.
Press firmly on the areas circled in green ⬭ to lock the console.

V -9-MECHANICAL RIGGING

When using mechanical type rigging, be sure to use opening (1) for the steering control and opening (2) for the throttle control. These openings allow the manufacturer's minimum bending radii to be respected.
For your information, location (3) allows the upward passage of the cable bundles to the head of the console.

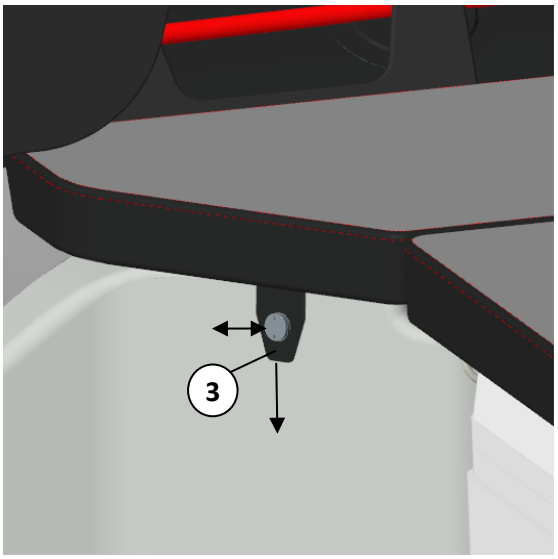


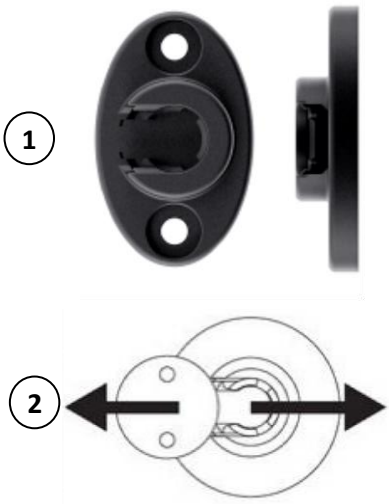
Before installing the throttle cables, take the plate (4) and enlarge the hole (6) to Ø70 mm to allow the cables to pass through.

V -10-FIXATION UPHOLSTERY

Your boat is equipped with a new type of fixation (1) to maintain the upholstery on the hull. This system provides magnets with a lateral unlocking (2).

- **Unlocking:** Slightly pull the retaining strap (3) downwards and make it slide to the side.
- **Locking**: Slightly pull the retaining strap (3) downwards and make it slide to the interior of the fixation.





WARNING

Do not pull directly on the upholstery to unclip it, as this will damage the new fixation system.

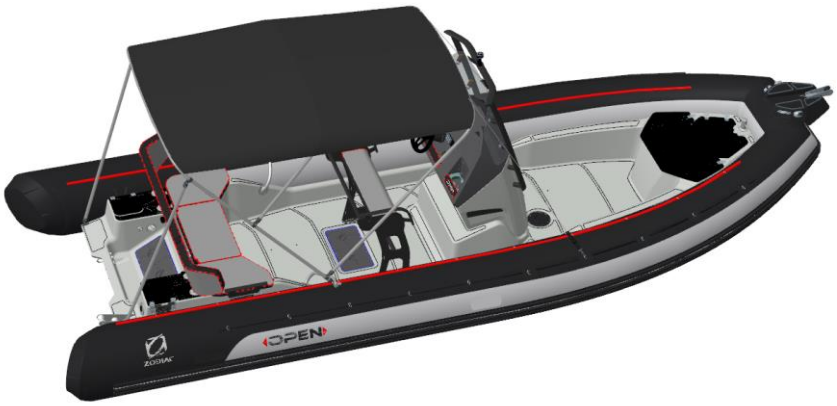
VI -LOCATION OF ACCESSORIES

An installation manual is supplied with each accessory.

WARNING
Your attention is drawn to the finishing process in which structural components such as steering consoles, seats and superstructure elements are installed by parties other than the manufacturer. These elements should be installed in compliance with the relevant requirements of ISO 6185-3 to ensure that all such installations do not invalidate the initial assessment.
Also ensure that the subsequent installation of consoles and other structural elements not initially supplied with the boat is performed in accordance with the installation recommendations provided by the manufacturer and ZODIAC's recommendations.

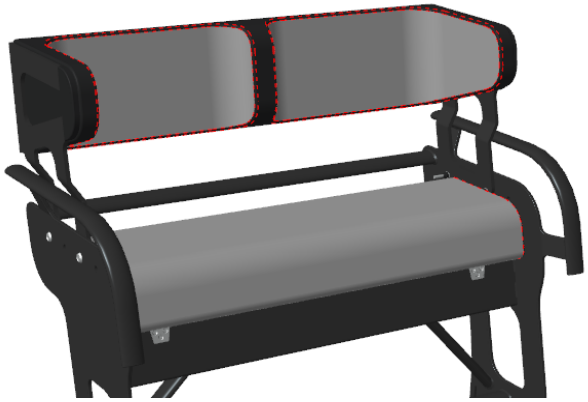
VI -1-BENCH SEAT

VI -2-TENDOLINE OPEN 7



VI -3-BOLSTER AND BOLSTER BACKREST

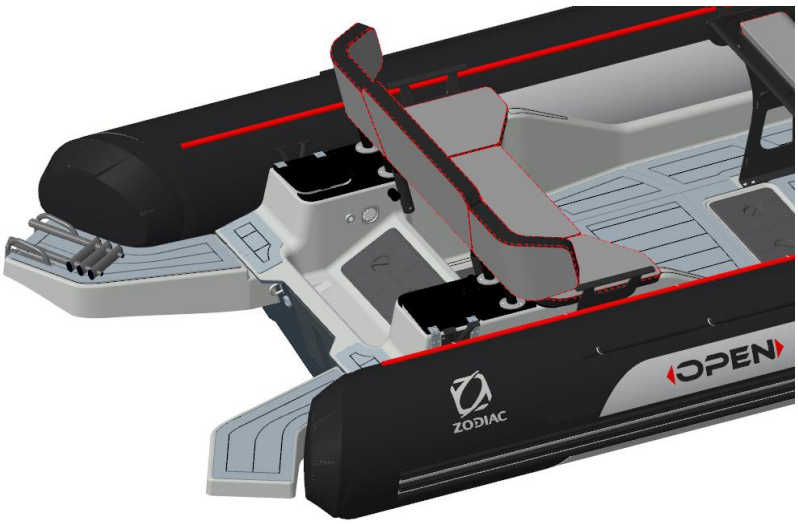
See below the recommendation for the position of the bolster with respect to the console.
Do not forget to seal its fixation with Sikaflex.



VI -4-FRAME / SKI MAST

LOCATION OF ACCESSORIES

VI -5-AFT PLATFORM



VI -6- TTOP

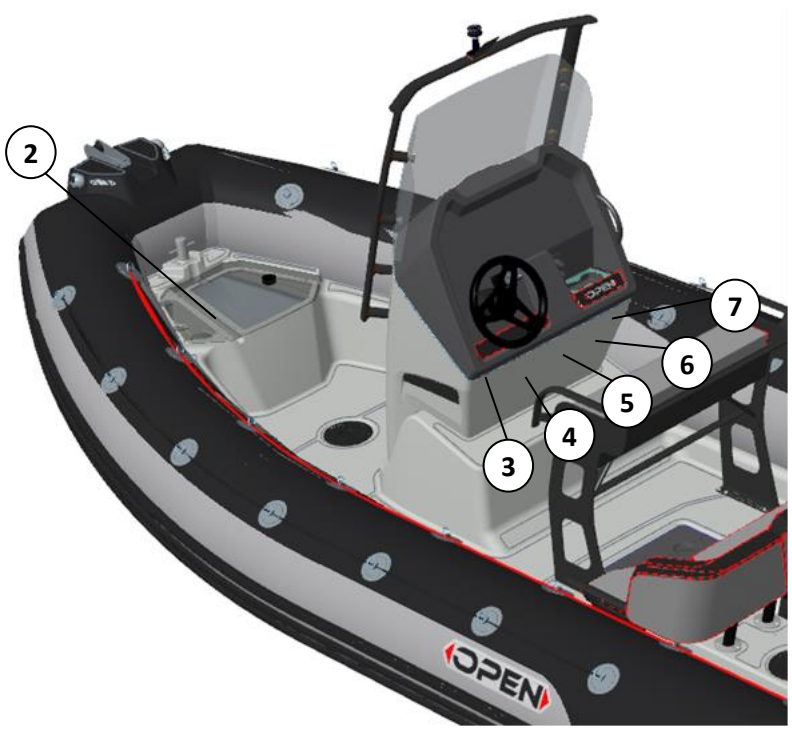
VI -7- PULPIT

VI -8- BOW CUSHION

VI -9 - SUNDECK EXTENSION

LABELLING

VII-1-POSITION OF STICKERS



VII -2-DESCRIPTION OF LABELS

⚠ WARNING	⚠ AVERTISSEMENTS
• 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	• 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
GASOLINE IS HIGHLY INFLAMMABLE AND EXPLOSIVE • 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	L' ESSENCE EST TRES FORTEMENT INFLAMMABLE ET EXPLOSIVE • 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
IMPROPERLY TOWING YOUR BOAT CAN CAUSE SEVERE DAMAGE TO YOUR BOAT. • NEVER TOW IN OPEN SEAS • NEVER TOW ABOVE 6 KNOTS	UN REMORQUAGE INAPROPRIE PEUT ENDOMMAGER VOTRE BATEAU • NE PAS REMORQUER EN PLEINE MER • NE PAS REMORQUER A PLUS DE 6 NOEUDS

3

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

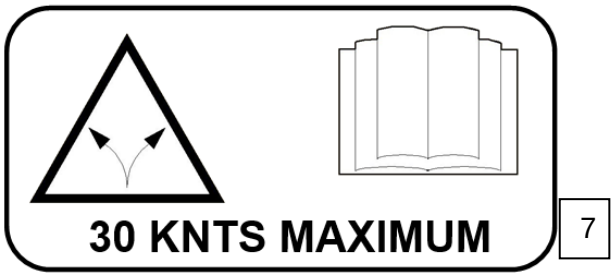
4

⚠ DANGER	⚠ DANGER
TO AVOID INJURY OR DEATH, SHUTT OFF ENGINE WHEN NEAR SWIMMERS OR PRIOR TO USING SWIN PLATFORM AND BOARDING LADDER	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

5

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

6



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