



Disclaimer

The interceptor units are also steering equipment and it is the sole responsibility of the navigator-operator to ensure that, at any point, any problem that will alter the boat's course, rising from malfunction of interceptors, should be dealt immediately by the operator. At no circumstances, fault of our interceptor equipment leading to any kind of accident, creates liability for the manufacturer.

Trademark Notice

Hydrotab is a registered trademark of Olympic Engineering Ltd, Greece. All other trademarks, trade names or company names referenced herein are used for identification only and are property of their respective owners.

Patent Notice

The Hydrotab products are protected by patents and industrial design patents, patents pending or design patents pending.

Declaration of conformity

This product conforms to the following Electromagnetic Compatibility (EMC) regulations and standards for use in marine environments.

CE EN 60945

Technical information and Documentation

The technical information provided in this document was accurate and correct at the corresponding production time of the Hydrotab interceptors. Our operating principal for improving the manufactured product, may lead to changes regarding its specifications without prior notice. Liability will not be accepted for any inaccuracy considering the product and the user manual.

Fair use statement

This manual can be printed or copied for your own use only. Copies should not be provided to third parties and manual should not be commercialized.

Product Disposal

Waste removal of this product must be according to the Waste Electrical and Electronic Equipment (WEEE) Directive.

Product Registration

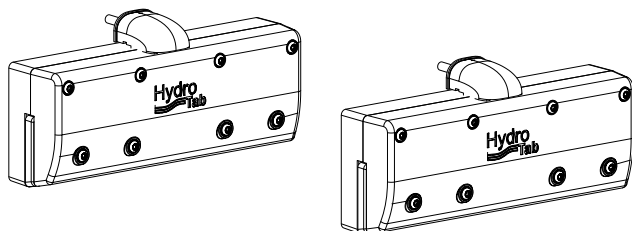
Please register your product online in order the warranty to be valid.

Table of Contents

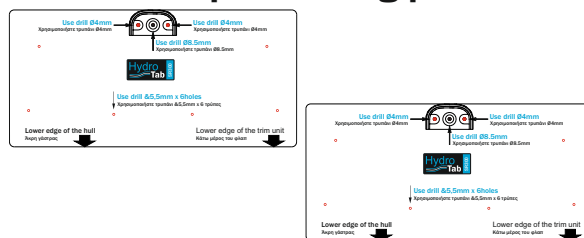
Disclaimer	2
Installation Kit	4
Required Tools for Installation	5
Before Installation	5
Safety precautions	5
Proper Interceptor Installation in Transom	6
Interceptor Installation	7
Interceptor Installation (Indirect Air Supply)	9
Air Unit Installation	9
3DHC Controller Installation	11
Installation Schematic overview - Single Compressor Air Unit with One 3DHC Controller	13
Installation Schematic overview - Single Compressor Air Unit With Two 3DHC Controllers	13
Installation Schematic overview - Double Speed Air Unit with One 3DHC Controller	14
Installation Schematic overview - Double Speed Air Unit with Two 3DHC Controllers	14
The 3DHC Controller	15
The 3DHC Controller Functions	16
The 3DHC Controller Adaptation	17
Single Air Unit Electrical Diagram	18
Single Air Unit Pneumatic Diagram	19
Spare Parts List - Model: Interceptor SR300 (ASM-01269)	20
Spare Parts List - Model: Interceptor SR450 (ASM-01285)	21
Spare Parts List - Air Unit (ASM-01051)	22
Spare Parts List - Double Speed Air Unit (ASM-01086)	23
Troubleshooting	24
Warranty Conditions	25

Installation Kit

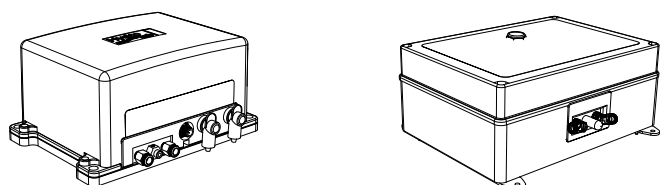
1. Two interceptors



2. Two interceptor drilling patterns



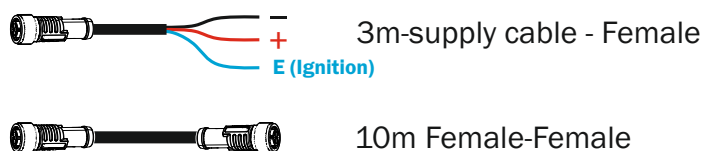
3. One Hydrotab AIR unit 12 OR 24VDC



RELAY
24V
TUT

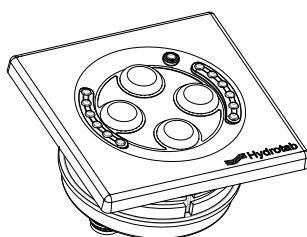
Extra 24V Relay
on single head
air unit **only**

4. Cables

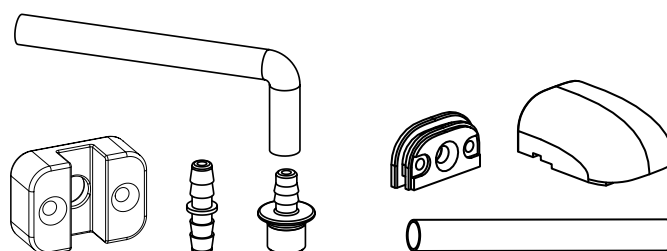


5. 3DHC Controller

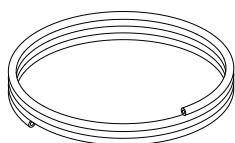
9 to 30 VDC panel with position indicators



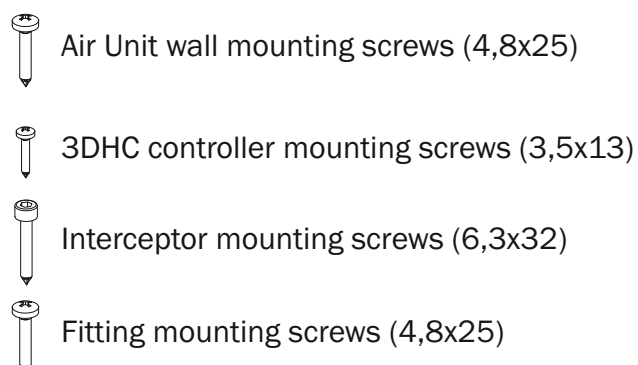
6. Fittings



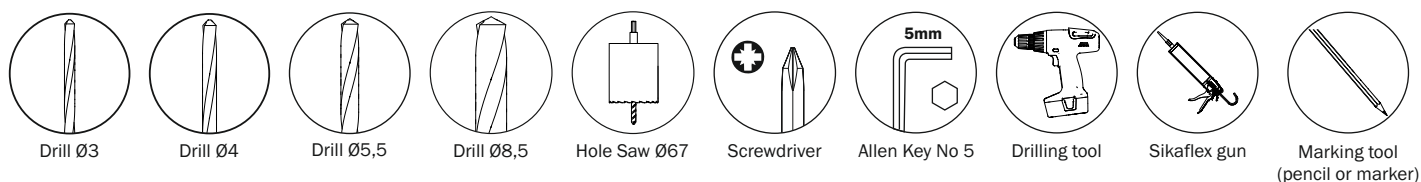
7. Pipe 8mm



8. Screws



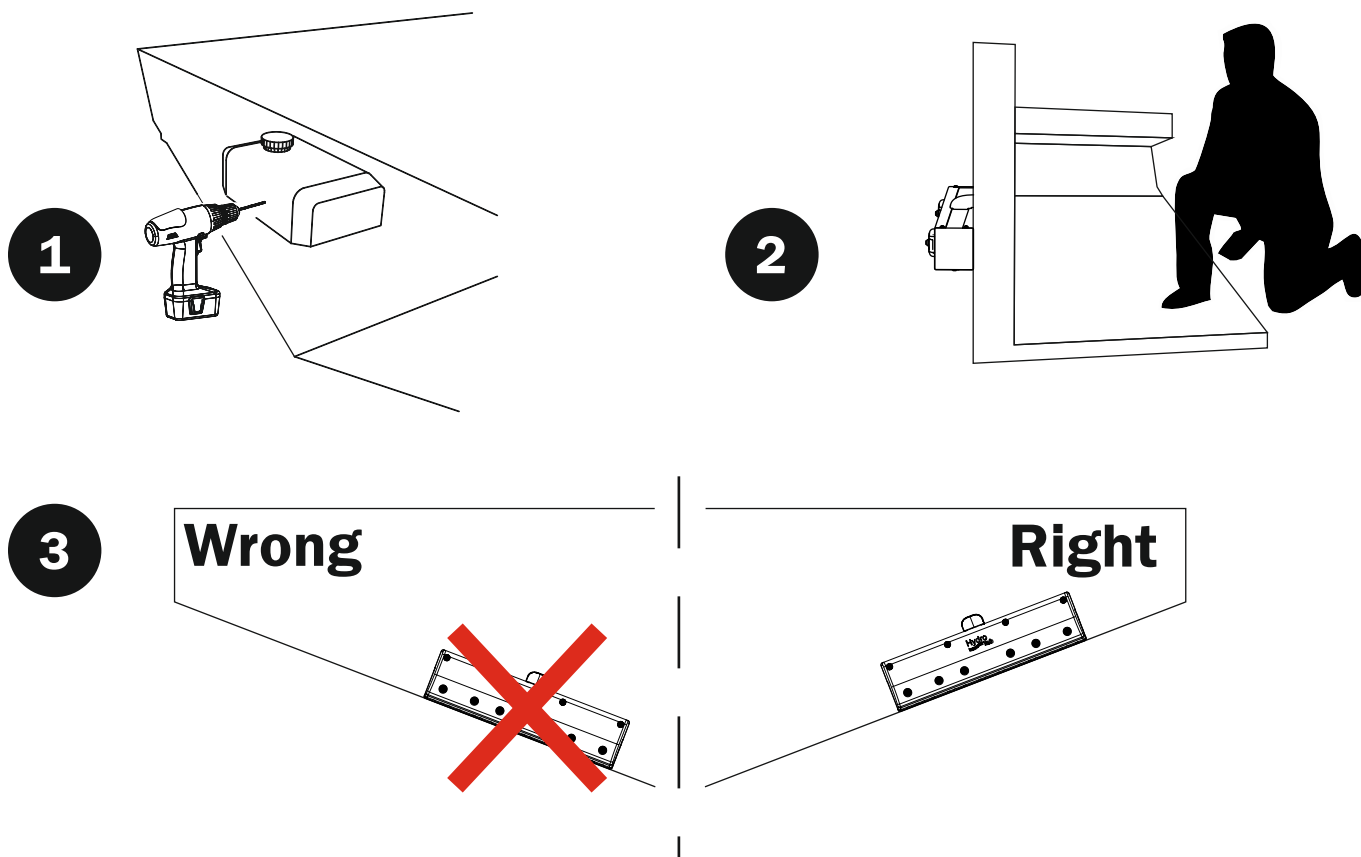
Required Tools for Installation



Before Installation

Make sure there are no obstructions behind the drilling area (tanks, fuel lines, cabling) which can be damaged or prevent the installation (Figure 1).

Attention! Please make sure that the pipe insertion hole is accessible from the engine room (Figure 2).

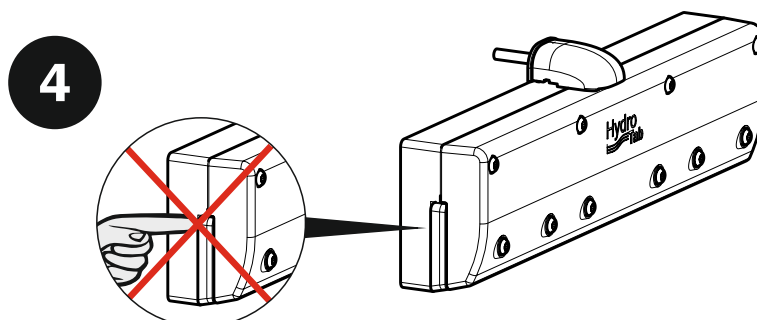


A good hint is that the closer the units are to the water line, the best the bank control of the boat will be (Figure 3).

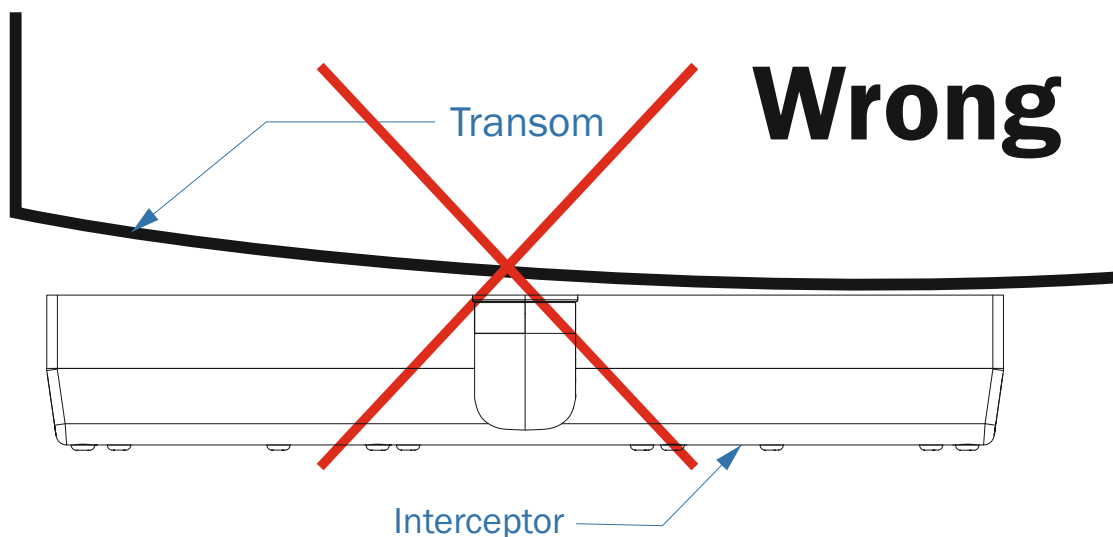
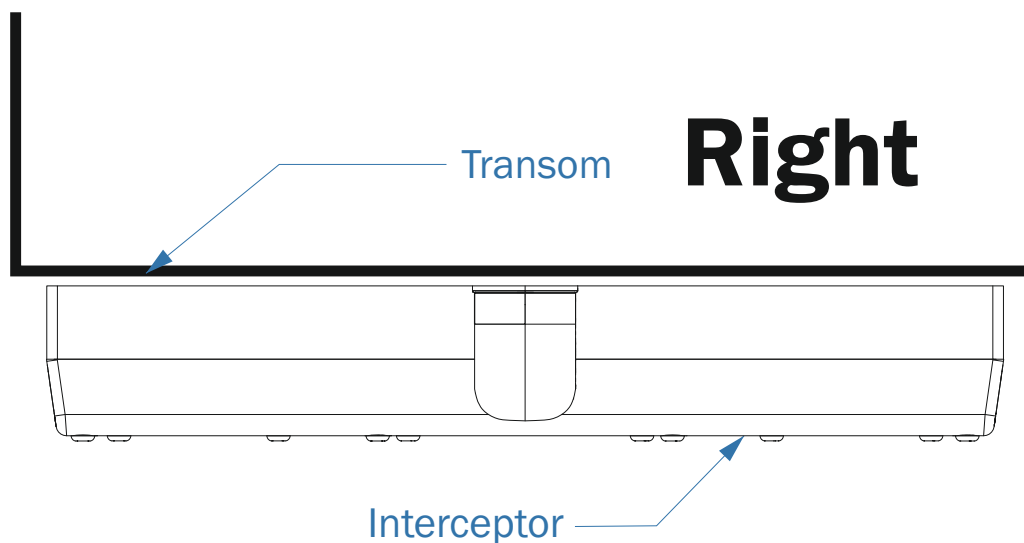
WARNING!

Safety precautions

1. For high speed boats, overtrim may cause unexpected turn. Improper use of trim tabs, may result to accident or injury.
2. DO NOT PLACE YOUR FINGERS ON THE SIDES OF THE INTERCEPTORS (Figure 4). **Severe injury danger!!!**

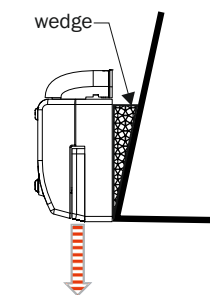
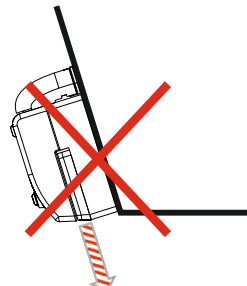
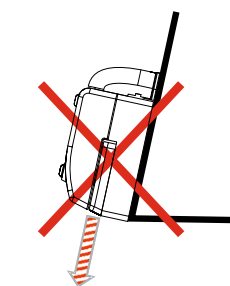
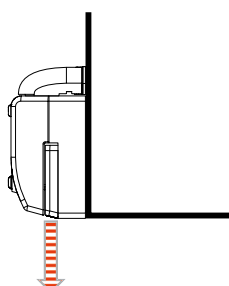


Proper interceptor installation in transom



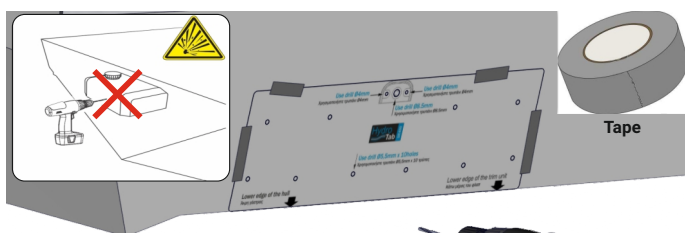
If the boat's transom has a significant curvature, it is necessary to create a flat plane for the installation (acceptable flatness tolerance: 2mm).

For aluminum hulls, it is suggested Isolation Plates between hull and interceptors to be installed. You can find installation instructions in the Isolation Plates Kit.

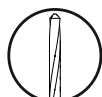


For maximum performance and less drag, install interceptors on the transom so blades deploy vertically. If transom is not vertical to water plane, correct the angle by using wedges or other means.

Interceptor Installation



You will need



No 3

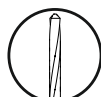
Drill all the pattern holes with a 3mm bore without removing the pattern.



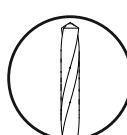
5



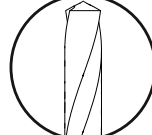
You will need



No 4



No 5,5

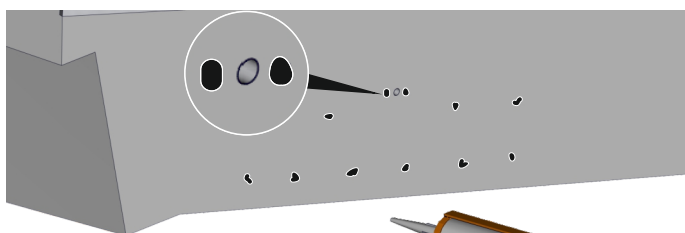


No 8,5

Remove the pattern and drill according to the pattern indications.



6



You will need

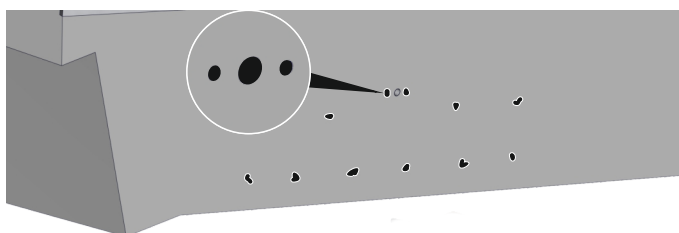


Sikaflex Gun

Apply sealant Sikaflex 291 to the holes.



7



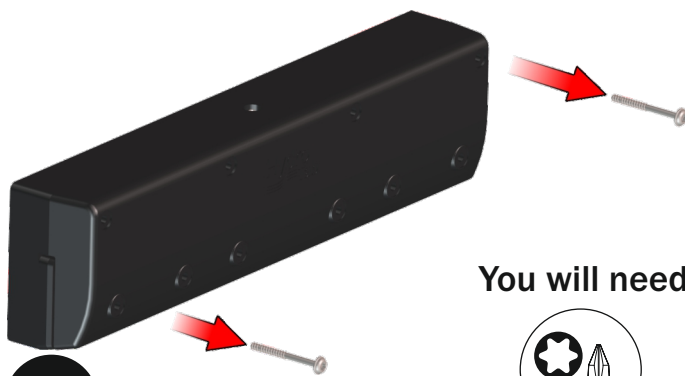
You will need



Spatula

Use a spatula to clean the excessive glue from the holes.

8



9

You will need

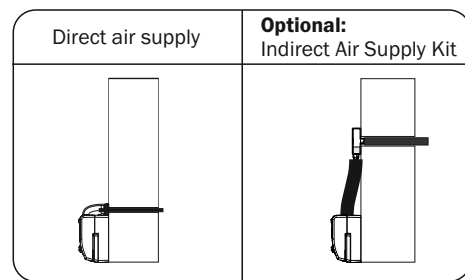


Torx T30

Remove the screws and open the interceptor.

10

For Direct Air Supply: Advise the instructions.
For Indirect Air Supply: Use the components included in the kit.

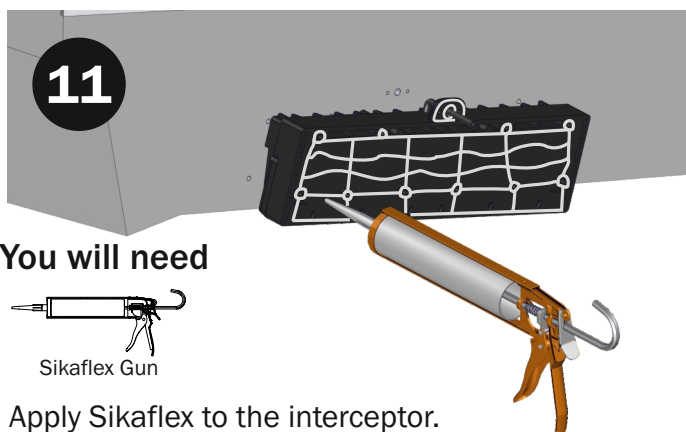


11

You will need

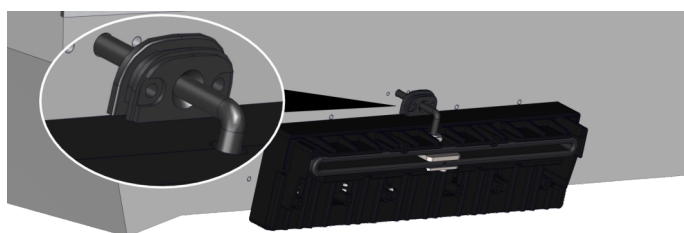


Apply Sikaflex to the interceptor.

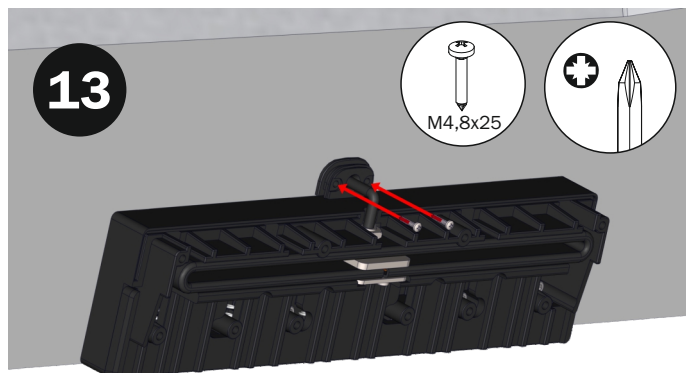


12

Mount the pipe into the drilled hole.

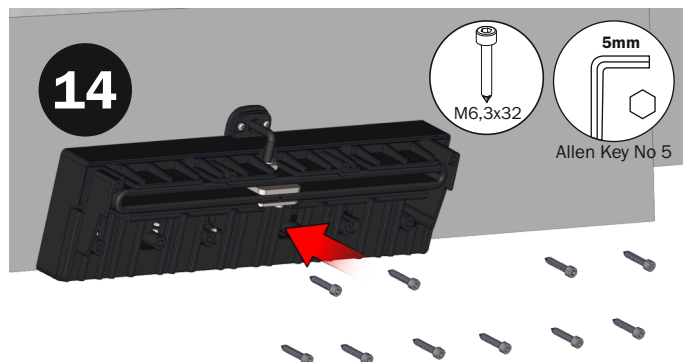


13



Mount the cap base to the transom.

14



Mount the interceptor to the transom.

15



Mount the front cap and tighten the screws.

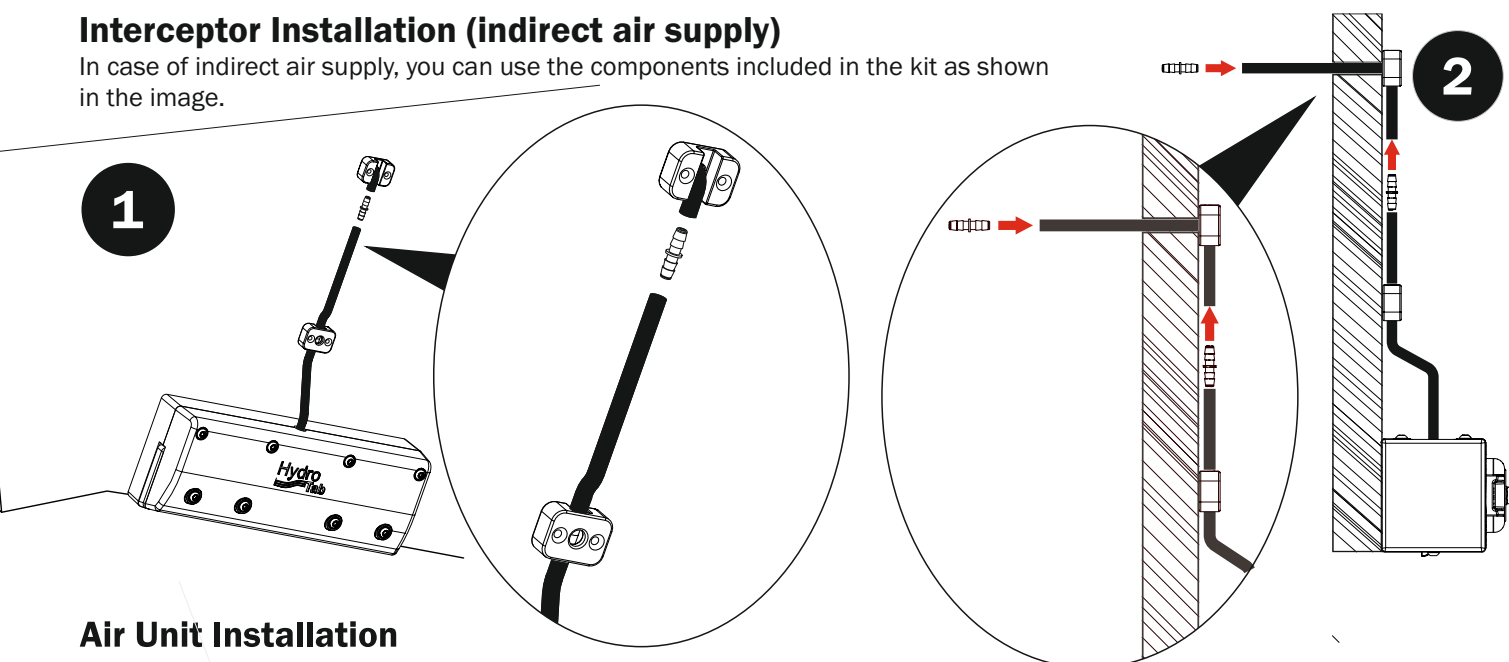
16



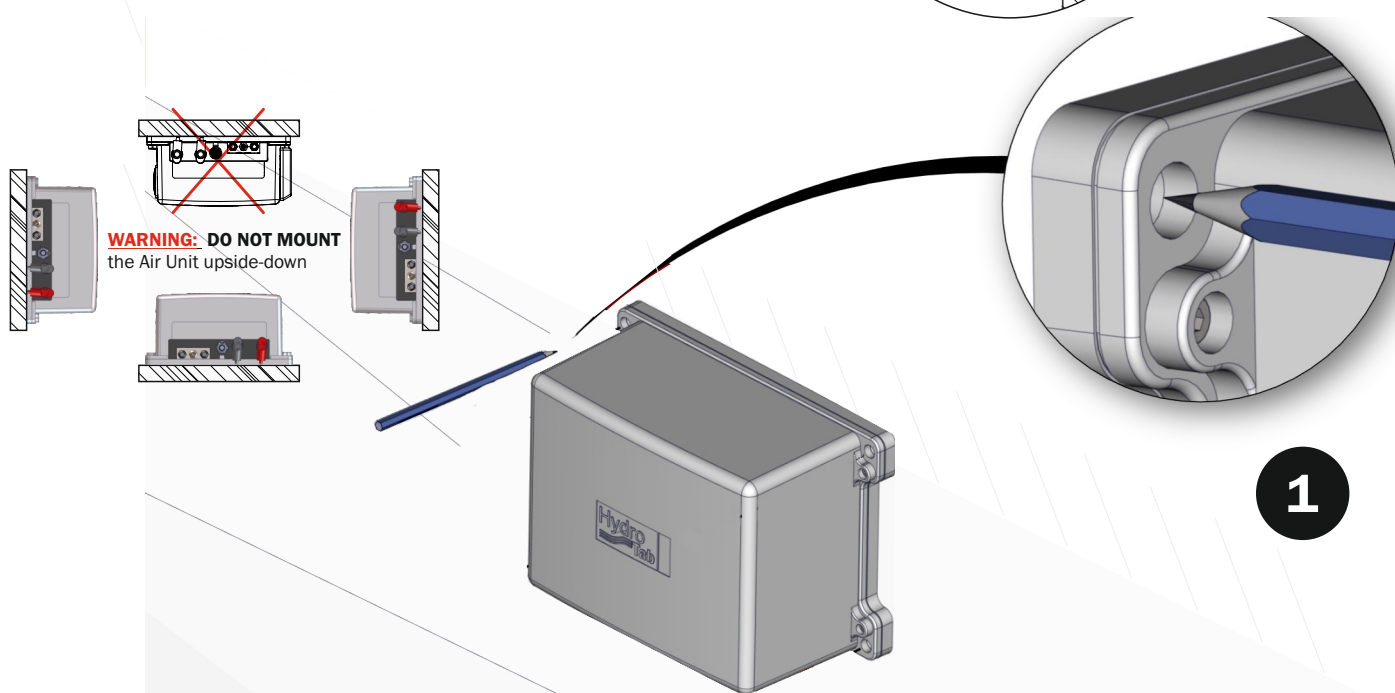
Mount the cap.

Interceptor Installation (indirect air supply)

In case of indirect air supply, you can use the components included in the kit as shown in the image.



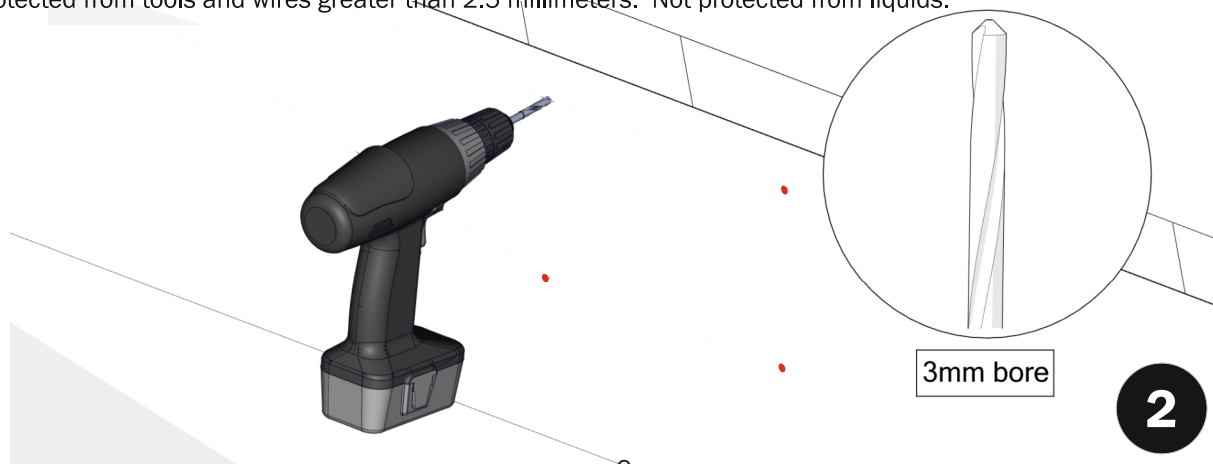
Air Unit Installation



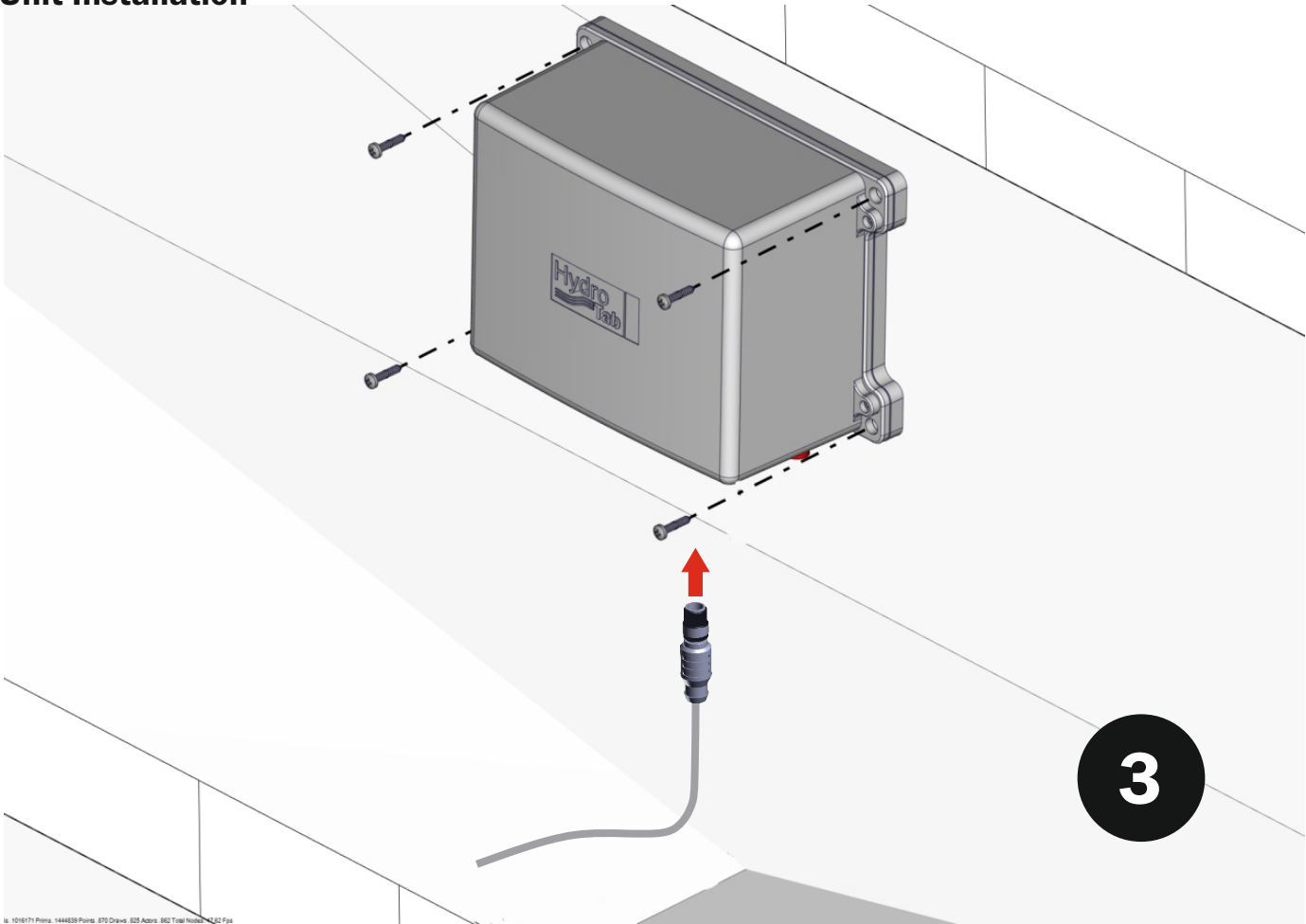
WARNING: THE AIR UNIT MUST BE INSTALLED IN A COMPARTMENT **FREE OF EXPLOSIVE OR FLAMMABLE GASES**

WARNING: PLEASE INSURE THAT THE AIR UNIT IS INSTALLED ACCORDING TO THE IP30 LIMITATIONS.

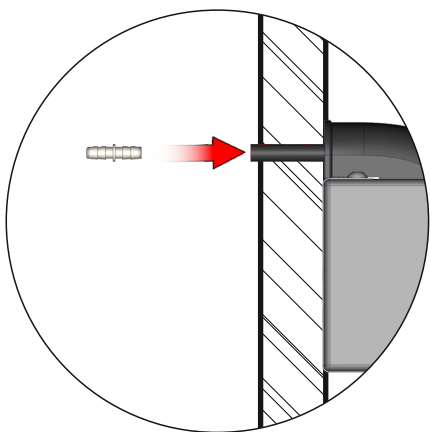
IP30: Protected from tools and wires greater than 2.5 millimeters. Not protected from liquids.



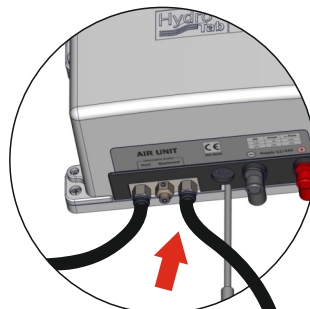
Air Unit Installation



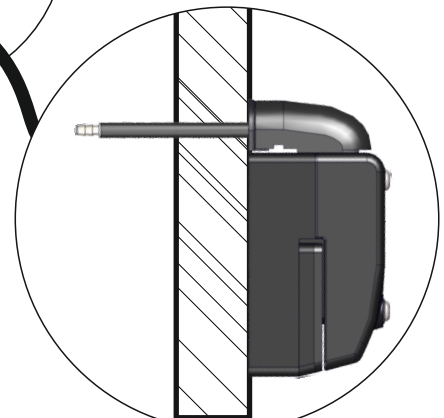
Pneumatic Connection



! After you install the hose through the transom, mount the air fitting into the hose.



Cut the 8mm pipe at the proper length and connect it to the Air Unit

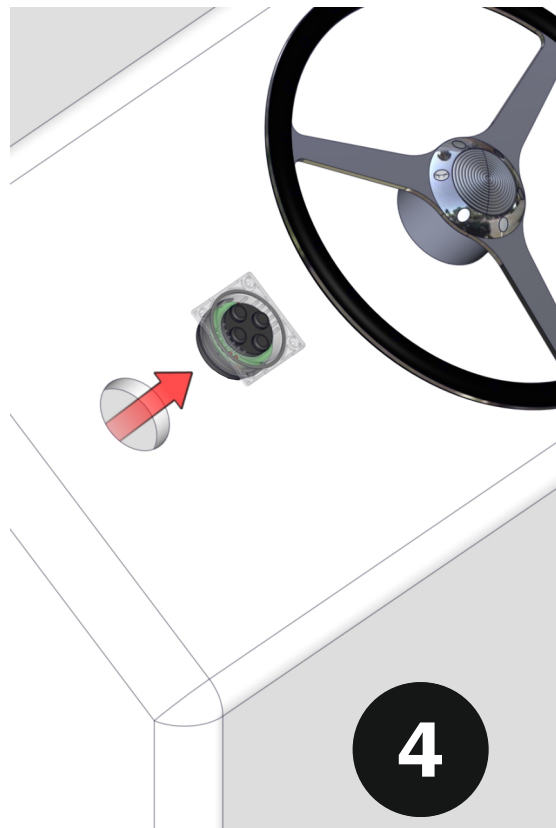
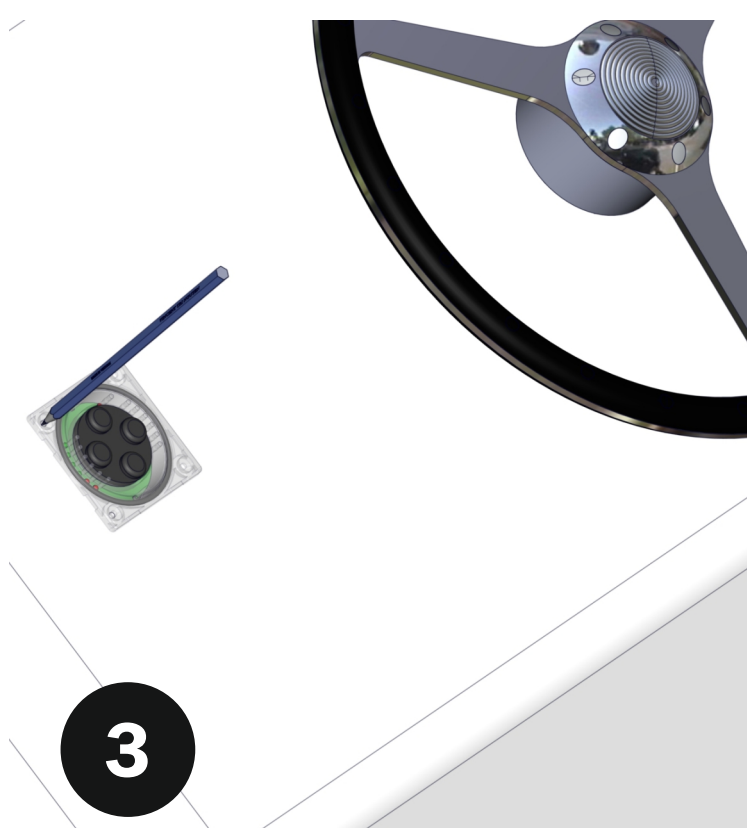
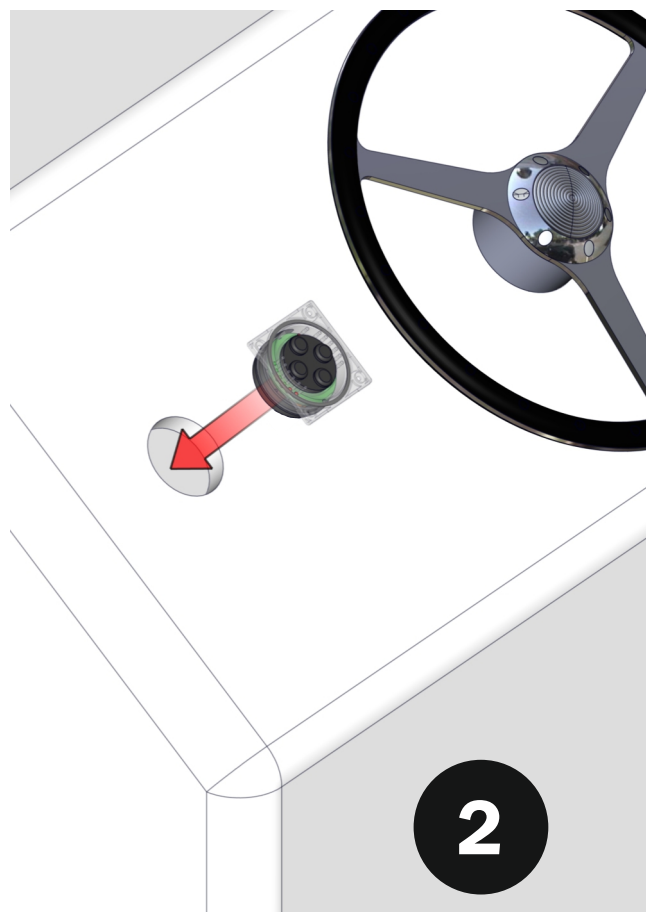


Connect the push-in fitting

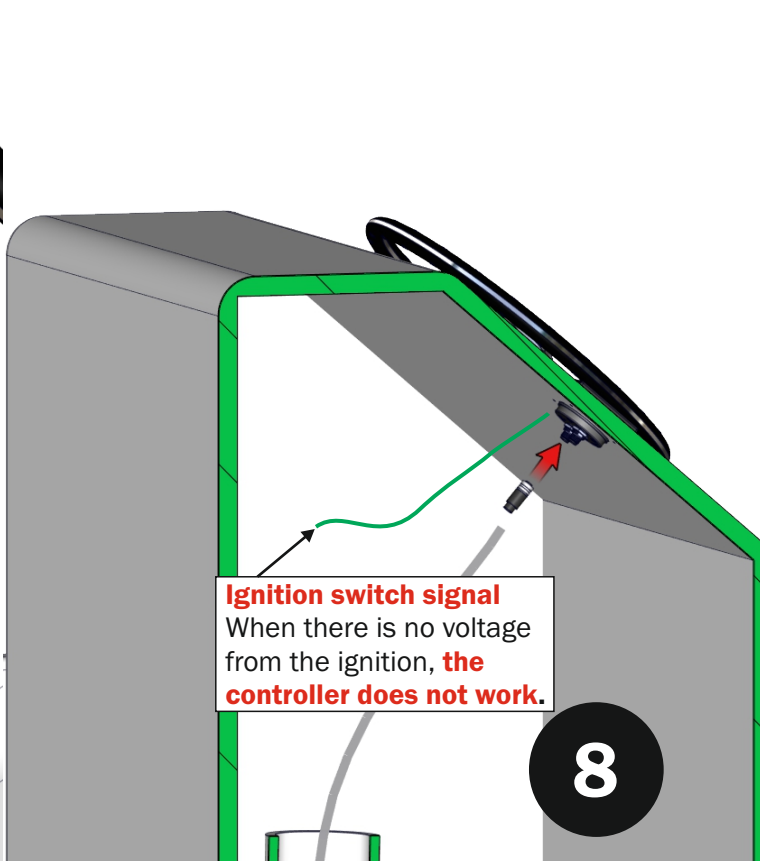
4

5

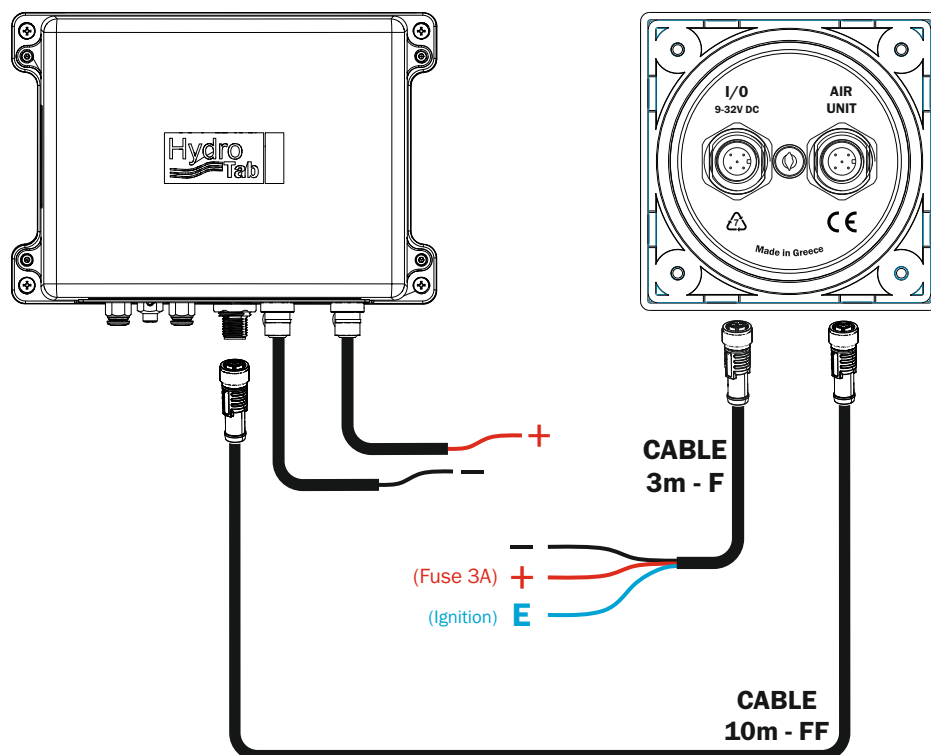
3DHC Controller Installation



3DHC Controller Installation

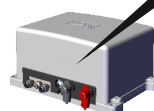


Installation Schematic overview - Single Compressor Air Unit with One 3DHC Controller

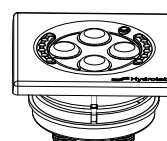


Attention!

DC	Amps	Use Fuse
12V	9A	15A
24V	16A	25A



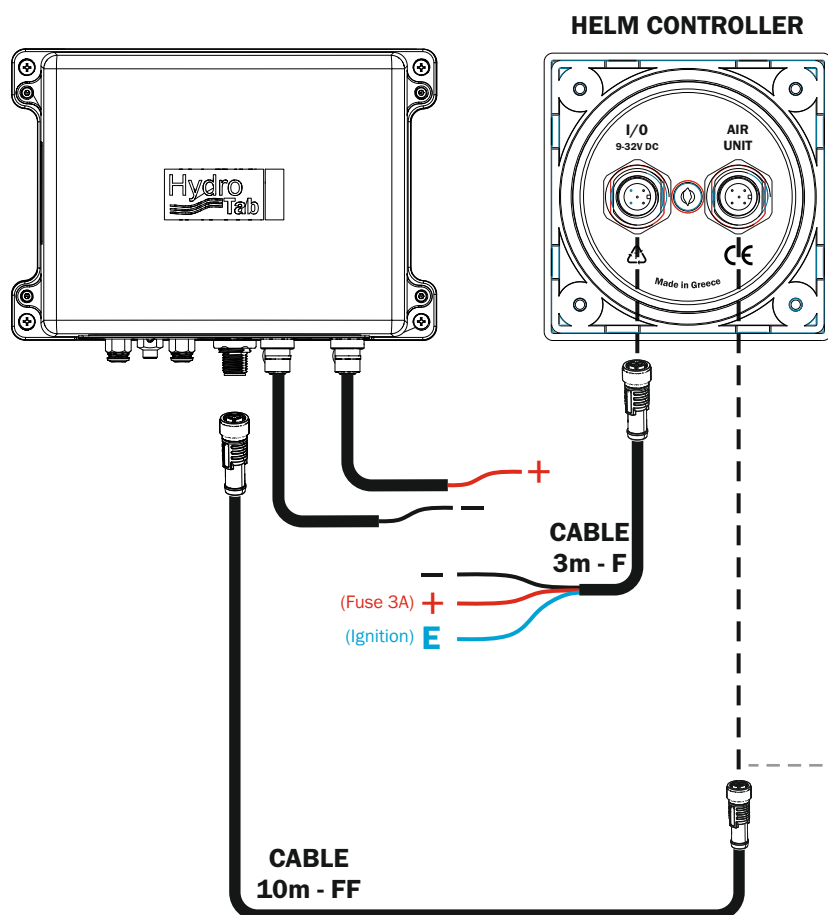
*Advise the fusing table and ensure that you apply the right fuse according to your boat's voltage.



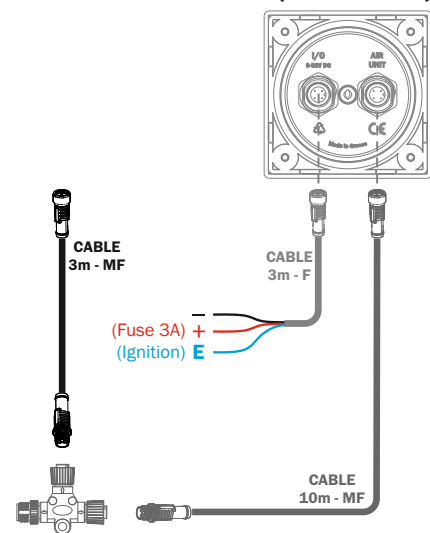
+

**In order to start the controller, the E wire must be connected to the "ON" Ignition Switch contact.

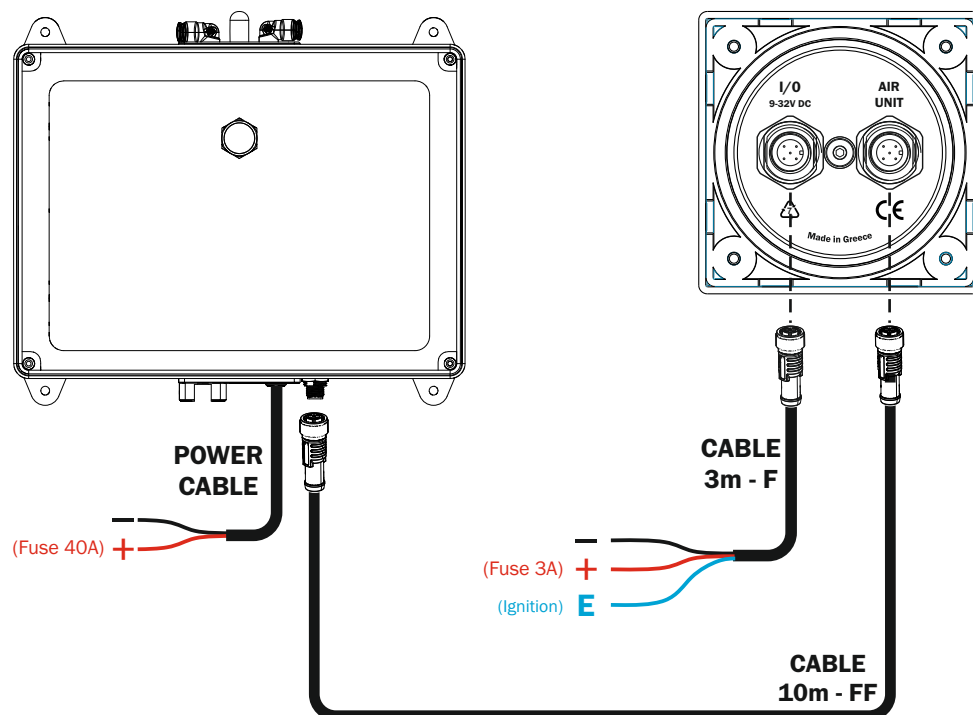
Installation Schematic overview - Single Compressor Air Unit With Two 3DHC Controllers



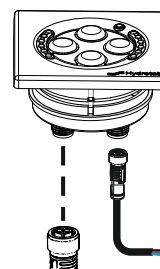
FLYBRIDGE OPTIONAL Controller Kit (ASM-01088)



Installation Schematic overview - Double Speed Air Unit with One 3DHC Controller

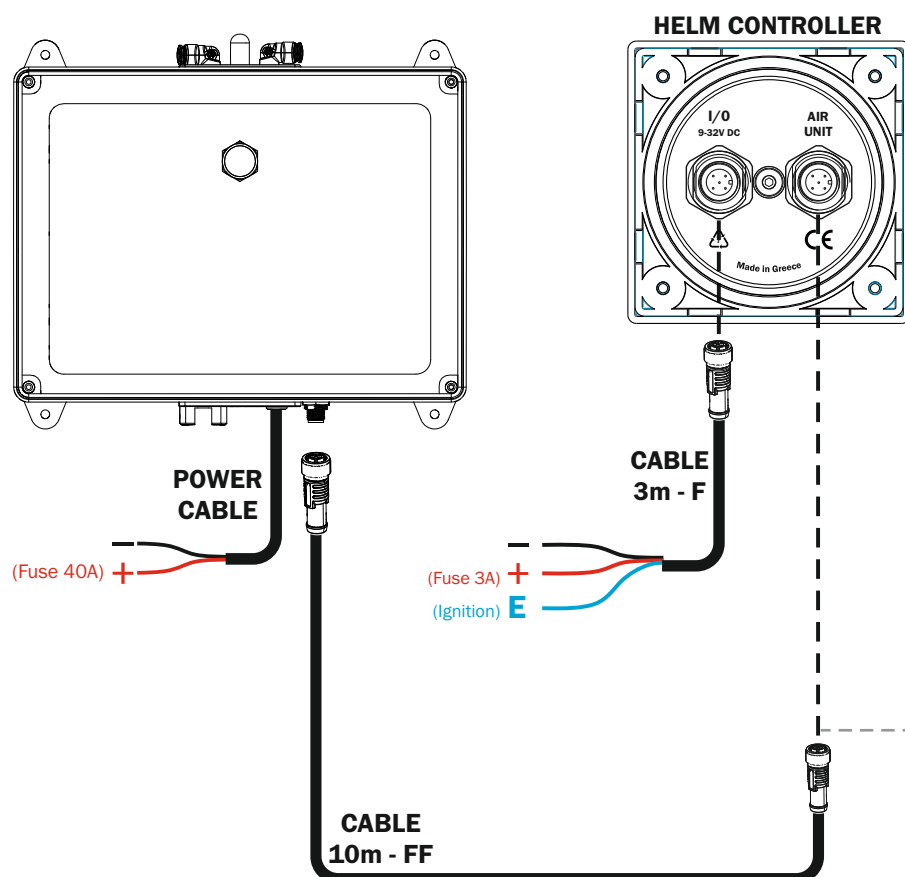


Attention!

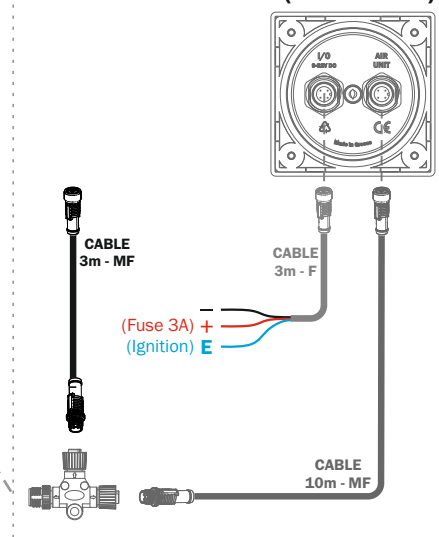


**In order to start the controller, the E wire must be connected to the "ON" Ignition Switch contact.

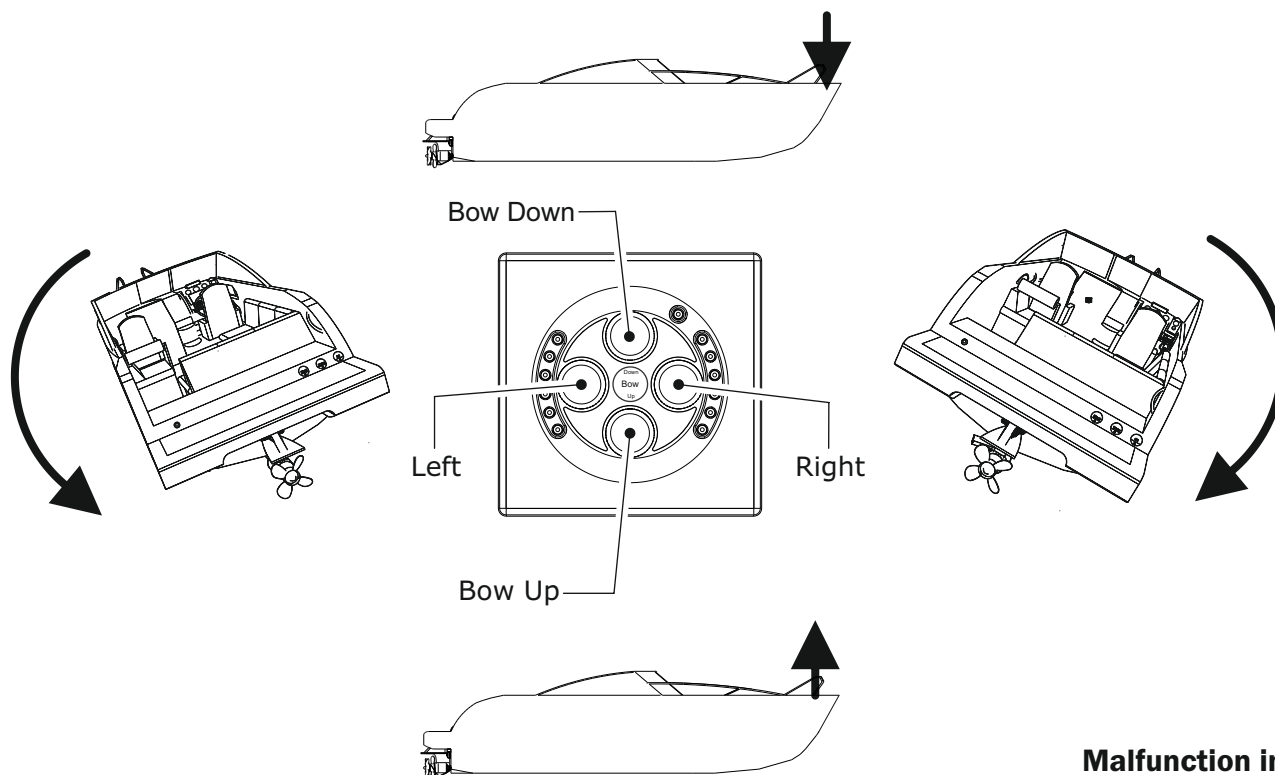
Installation Schematic overview - Double Speed Air Unit with Two 3DHC Controllers



FLYBRIDGE OPTIONAL Controller Kit (ASM-01088)



The 3DHC Controller



Malfunction indication

BLINKING LED	MALFUNCTION
1st green on the left	Left Interceptor does not return
1st green on the right	Right Interceptor does not return
2nd green on the left	Left Interceptor does not extend
2nd green on the right	Right Interceptor does not extend

The 3DHC controller operation

Interceptors operate when voltage comes from the ignition. When there is no voltage from the ignition, system does not work.

System Reset - Retracting

The system resets and interceptors retract automatically:

- On Engine start
- On Engine stop
- On simultaneously pressing the UP + DOWN buttons for 1 second.

Note: During reset process controller LEDs are flashing.

Night and day mode

The indication brightness changes by pressing simultaneously the buttons LEFT + RIGHT for 1 second.

Memory

Setting the desired trim angle

You may save the desired trim angle for the cruising speed.

Just manually adjust the position and then press simultaneously any diagonal press buttons for about 3

seconds. This position of trim tabs is stored in 3DHC memory and the power-on led is flashing to confirm the setting.

Whenever the user presses instantaneously two diagonal press buttons, the trim tabs get the preset position.

The saved position is stored even after switching off the main switch of the boat.

Maintenance

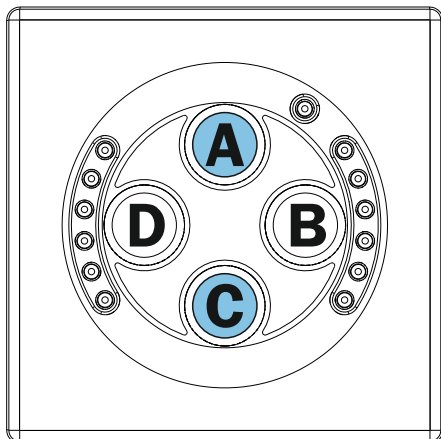
Check connectors for corrosion or liquid pollution. Check in regular intervals the condition of the sacrifice anodes. Below 50% in volume, anodes must be replaced. When the boat is out of the water (end of season):

- extend the blades
- spread the decalcifying liquid with a brush
- let it for 15-20 min
- wash out with clean water
- retract the blades

Every two years remove the cover and clean the inside of the units, using water pressure.

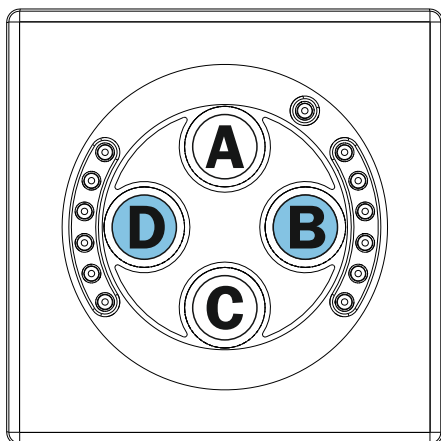
Every three years check the springs condition.

The 3DHC Controller Functions



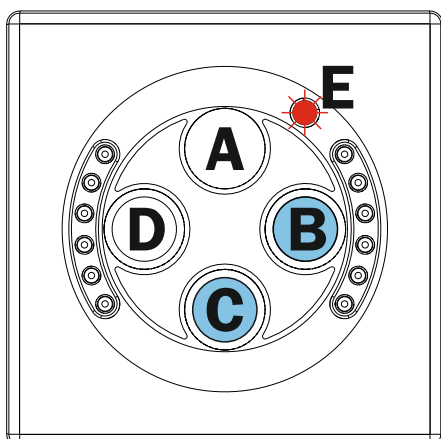
EMERGENCY RETRACTING

Press the **A + C** buttons simultaneously for 1 second.



NIGHT AND DAY MODE

The indication brightness changes by pressing simultaneously the **B + D** buttons for 1 second.



INTERCEPTOR POSITION MEMORY

Press **B + C** buttons simultaneously until the red led **E** blinks, to save the interceptor position in the memory.

Next time you press **B + C** simultaneously for 1 second, the interceptors will be extended automatically in the previous memorized position.

If you save a new position in memory, automatically the previous position is cancelled.

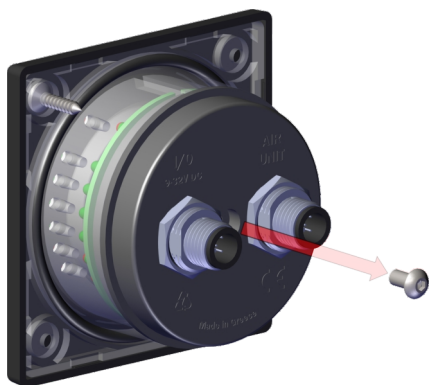
3DHC Controller Adaptation

The controllers included in packaging, are pre-adjusted.

The instructions of this page must be executed only by authorised technicians and only in case of:

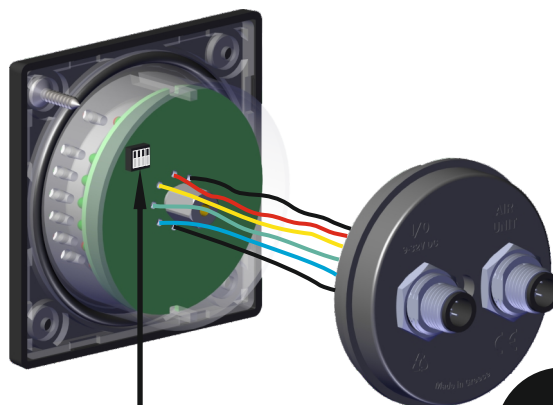
- Controller replacement with a new one after failure
- Installation of a secondary controller that **does not included in the initial set** (Flybridge)

To open the 3DHC Controller



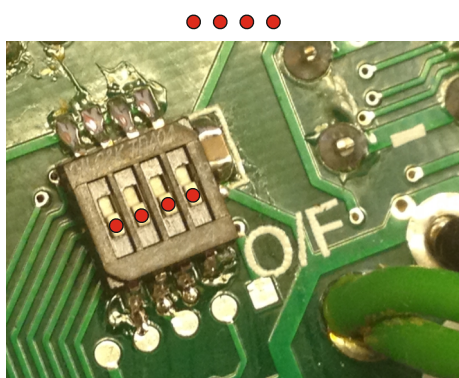
1

Remove the screw

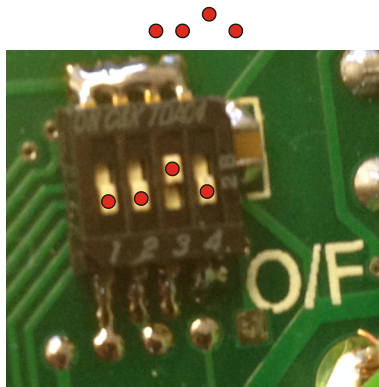


2

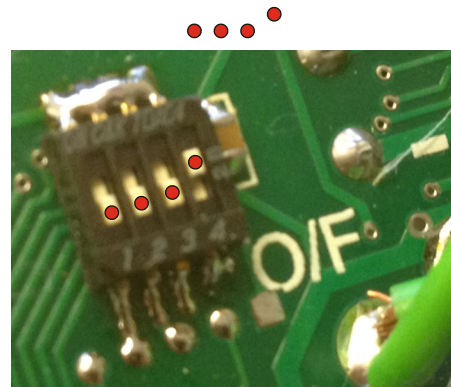
Find the switch and adjust as shown below



320BT

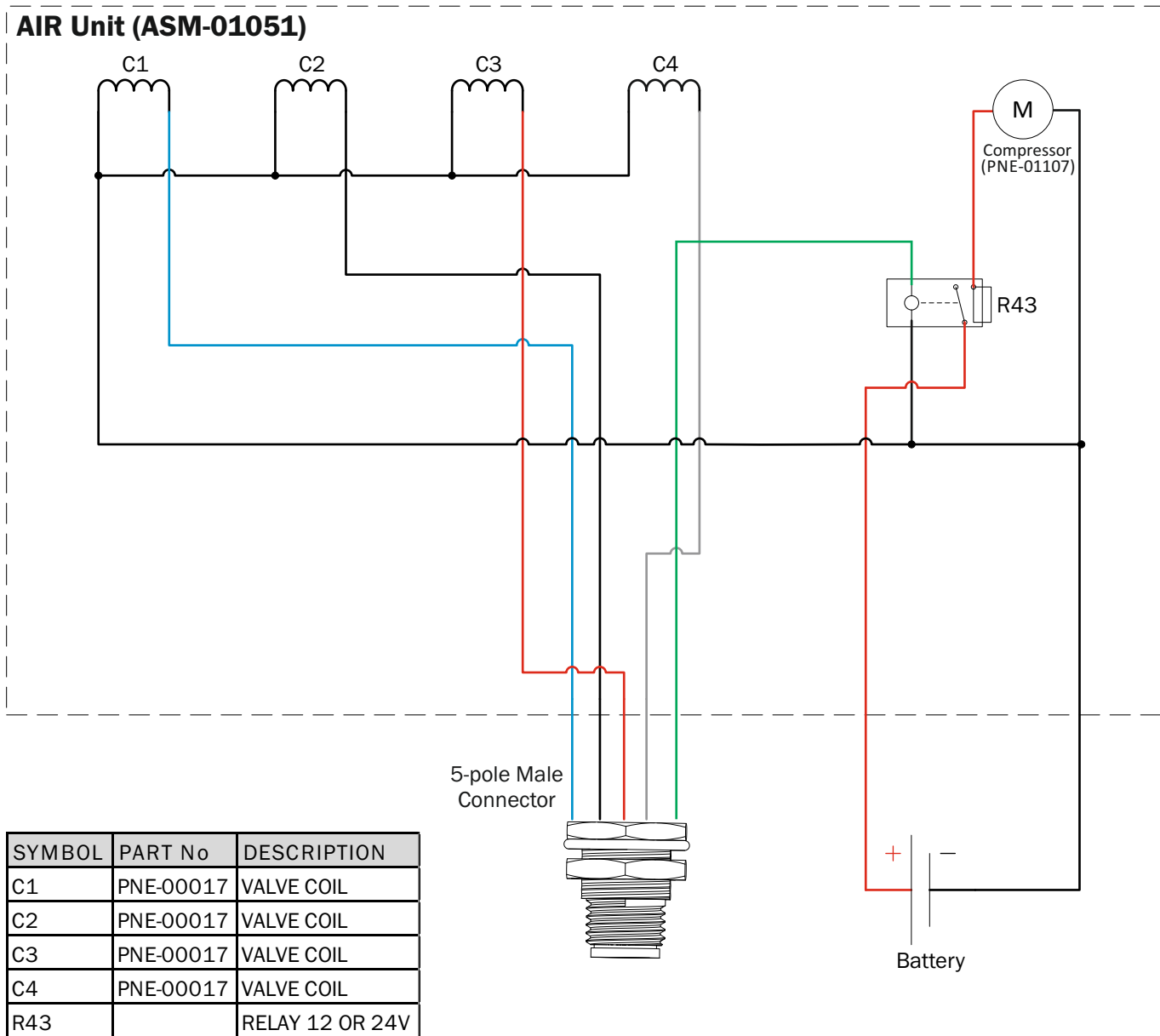


480BT



640BT - 800BT - 960BT

Electrical Diagram



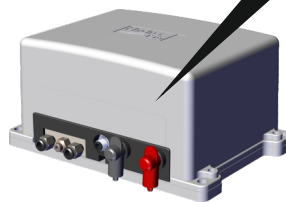
ATTENTION!

To avoid voltage drop use the right cable size.

AIR UNIT POWER CABLE SIZE	
DISTANCE FROM BATTERY	CABLE SIZE
up to 2.5m	2 x 2.5mm
up to 4m	2 x 4mm
up to 6m	2 x 6mm
up to 10m	2 x 10mm

DC	Amps	Use Fuse
12V	9A	15A
24V	16A	25A

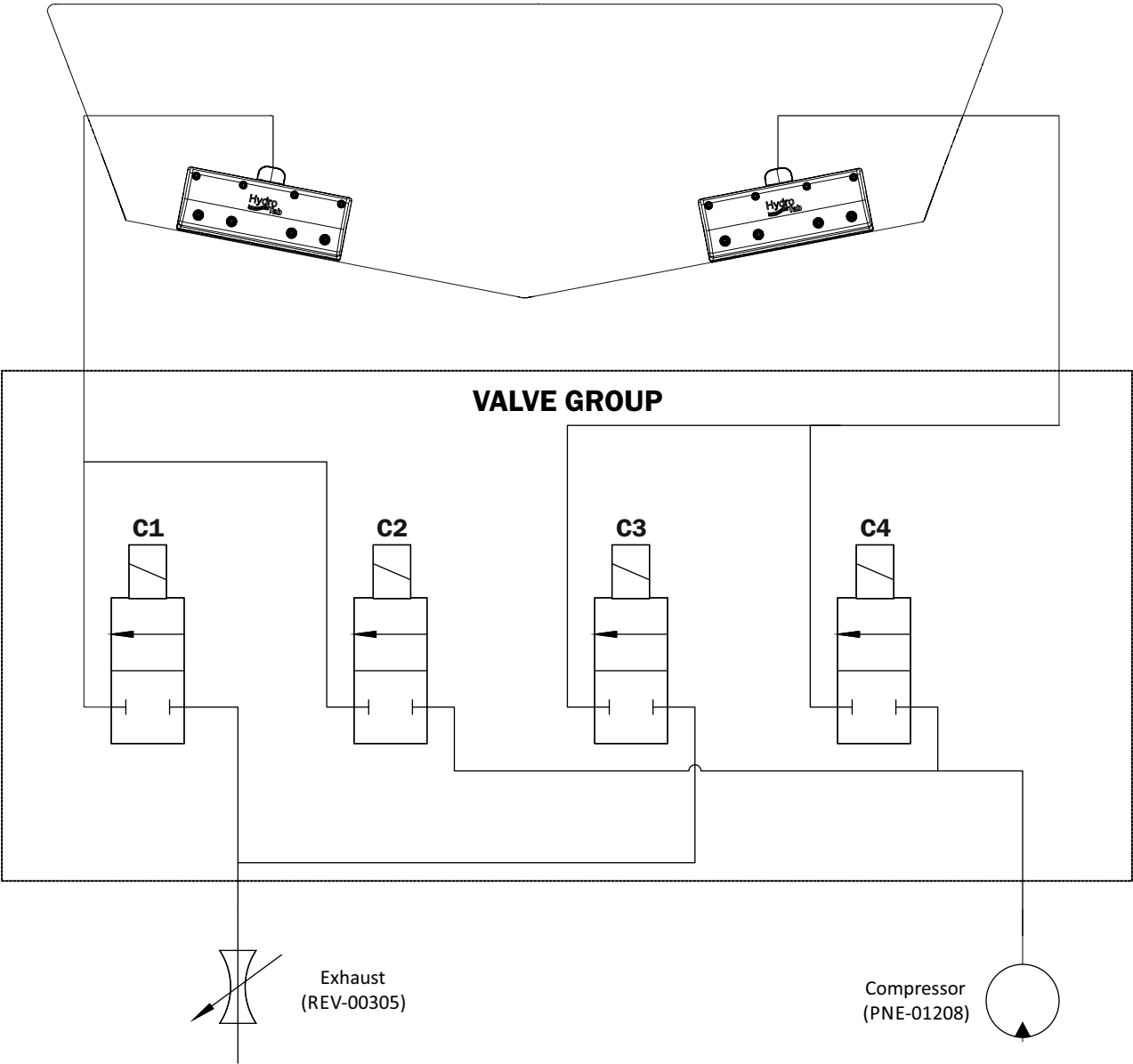
Supply 12/24V



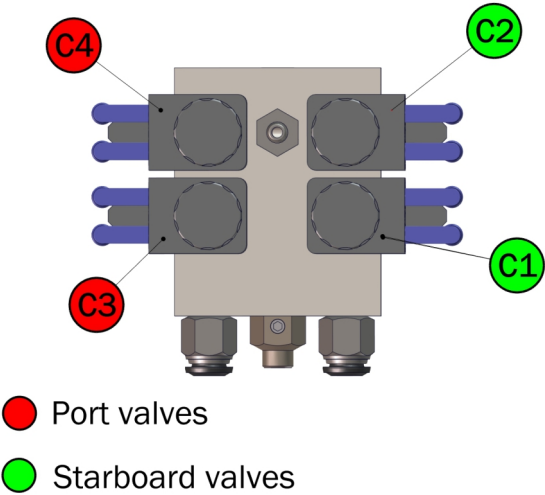
WARNING!

Advice the fusing table and ensure that you apply the right fuse according to your boat's voltage.

Pneumatic Diagram

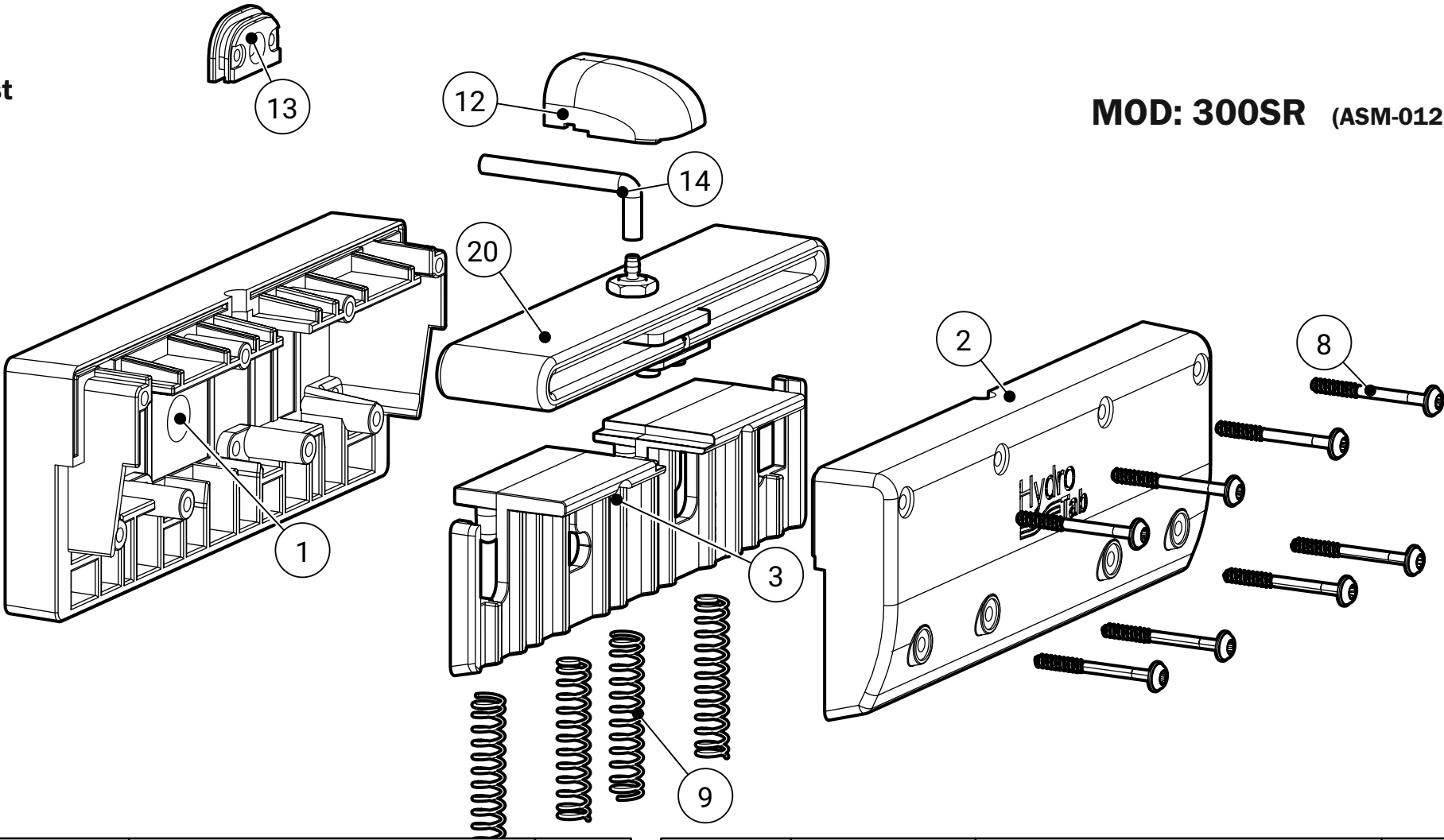


SYMBOL	PART No	DESCRIPTION	NOTES
C1	PNE-00017	COIL	STARBOARD RETRACT
C2	PNE-00017	COIL	STARBOARD EXTEND
C3	PNE-00017	COIL	PORT RETRACT
C4	PNE-00017	COIL	PORT EXTEND



Spare parts list

MOD: 300SR (ASM-01269)



BOM ID	PartNo	Description	QTY.
1	GEN-00506	SR300 BACK BODY	1
2	GEN-00508	SR300 FRONT COVER	1
3	GEN-00507	SR300 BLADE	1
8	FAS-02549	SCREW 6,1x48(23)	8
9	SPR-00037	SPRING	4

BOM ID	PartNo	Description	QTY.
12	GEN-00305	FITTING COVER	1
13	GEN-00306	FITTING COVER FLANGE	1
14	PNE-01215	DIRECT AIR SUPPLY PIPE	1
20	ASM-01268	SR300 TUBULAR ASSEMBLY	1



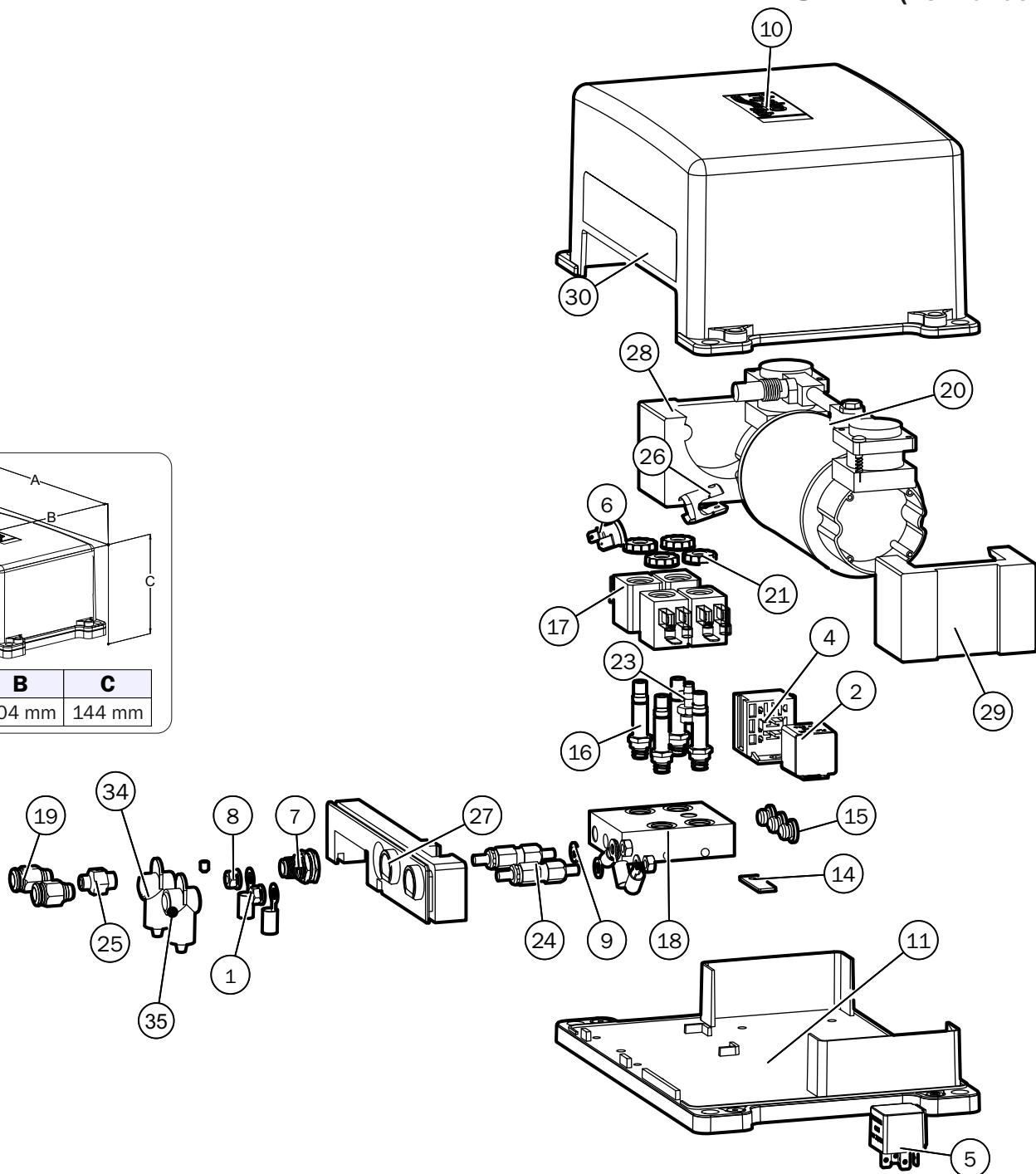
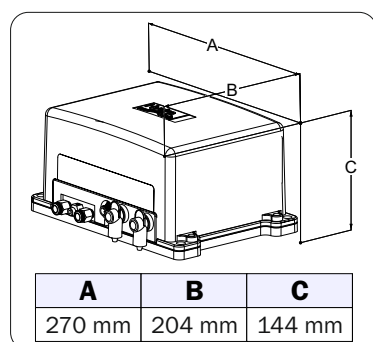
MOD: 450SR (ASM-01285)

BOM ID	PartNo	Description	Qty
1	GEN-00520	SR450 BACK BODY	1
2	GEN-00522	SR450 FRONT COVER	1
3	GEN-00521	SR450 BLADE	1
8	FAS-02549	SCREW 6,1x48(23)	10
9	SPR-00037	SPRING	6

BOM ID	PartNo	Description	Qty
12	GEN-00305	FITTING COVER	1
13	GEN-00306	FITTING COVER FLANGE	1
14	PNE-01215	DIRECT AIR SUPPLY PIPE	1
20	ASM-01284	SR450 TUBULAR ASSEMBLY	1

Spare parts list

AIR UNIT (ASM-01051-RE)

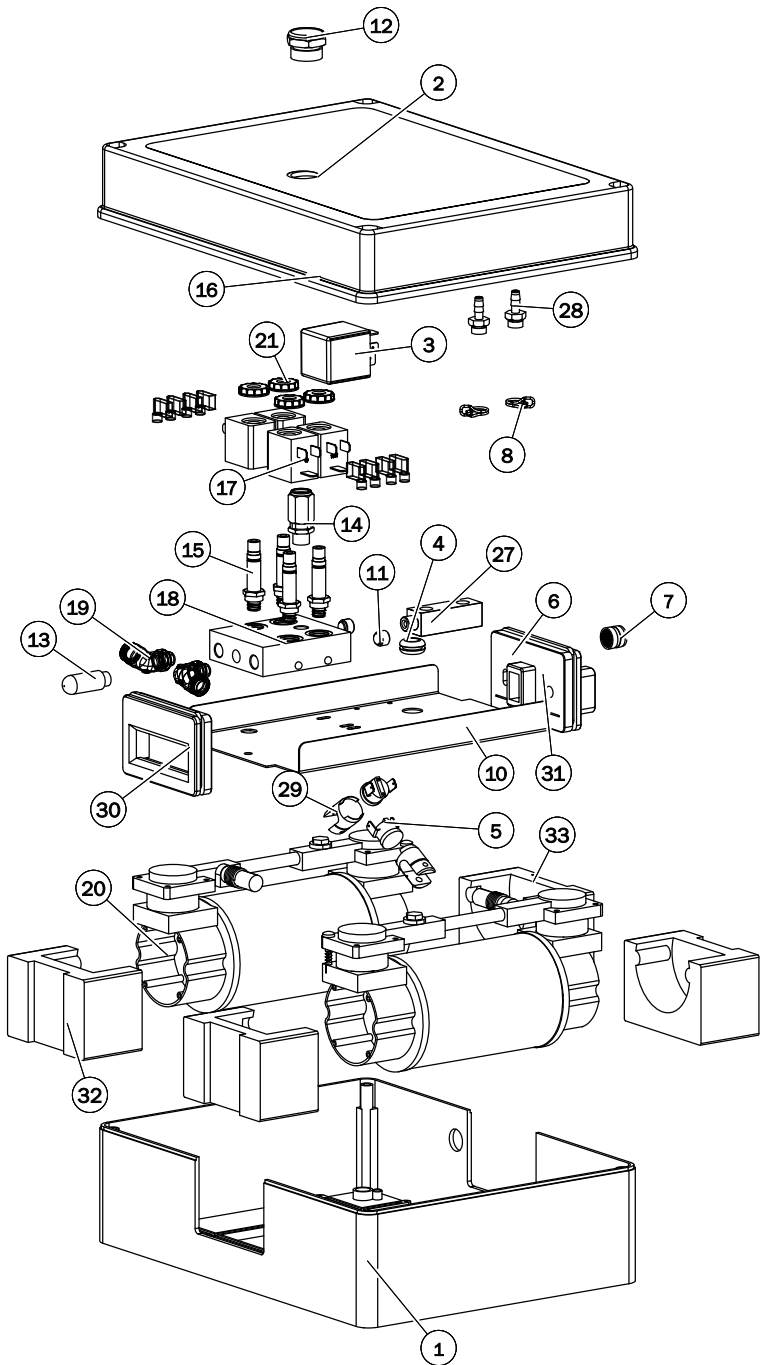
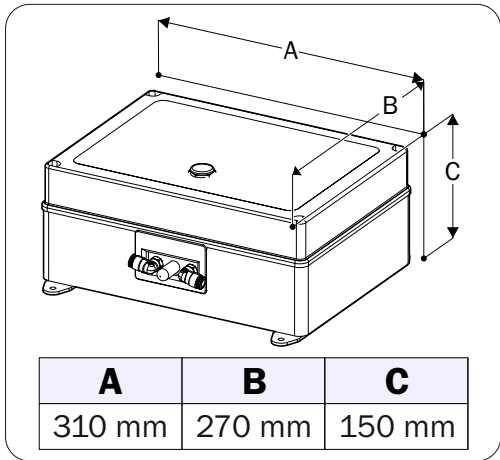


BOM ID	PartNo	Description	Qty
1	ELE-00106	TERMINAL, Φ6, YELLOW	5
2	ELE-00337	MINIRELAY FLOSSER 2262 12V 30A	1
4	ELE-00372	RELAY BASE	1
5	ELE-00374	MINIRELAY FLOSSER 4268 24V 20/30A	1
6	ELE-00533	THERMOSTAT	1
7	ELE-00535	M12, 5PIN PCB MALE CONNECTOR, PLASTIC MATERIAL	1
8	FAS-02323	NUT FOR AIR UNIT	4
9	FAS-02324	WASHER FOR AIR UNIT	4
10	GEN-00156	HYDROTAB AIR UNIT, TOP COVER	1
11	GEN-00157	HYDROTAB AIR UNIT, FS, BASE	1
14	LAS-00542	RELAY HOLDING FLANGE	1
15	PNE-00072	PLUG, MALE, PARALLEL, 1/8	3
16	PNE-00552	CANNOTTO NO Φ9 3/2 6W 09F07401A30NN	4
17	PNE-00924	COIL EVI 7/9 10W	4
18	PNE-00926	AIR UNIT VALVE BASE, 72x60x20	1

BOM ID	PartNo	Description	Qty
19	PNE-01001	FITTING, STRAIGHT, 1/8-Φ8, FOR AIR UNIT	2
20	PNE-01208	COMPRESSOR, 20VDC	1
21	PNE-01113	KNURLED NUT WITH M8 THREAD	4
23	REV-00184	FITTING, CUSTOM, 1/8, HOLE: 3.2	1
24	REV-00304	COMPRESSOR TERMINAL	2
25	REV-00305	FITTING, CUSTOM, FOR AIR UNIT	1
26	REV-00422	THERMAL RELAY RECEPTACLE	1
27	RUB-00102	HYDROTAB AIR UNIT FRONT COVER	1
28	RUB-00132	RUBBER MOUNT FOR COMPRESSOR (MALE)	1
29	RUB-00133	RUBBER MOUNT FOR COMPRESSOR (FEMALE)	1
30	STK-00086	STICKER, FRONT, AIR UNIT	1
34	ELE-00369	TERMINAL INSULATOR CAP, BLACK	1
35	ELE-00368	TERMINAL INSULATOR CAP, RED	1

Spare parts list

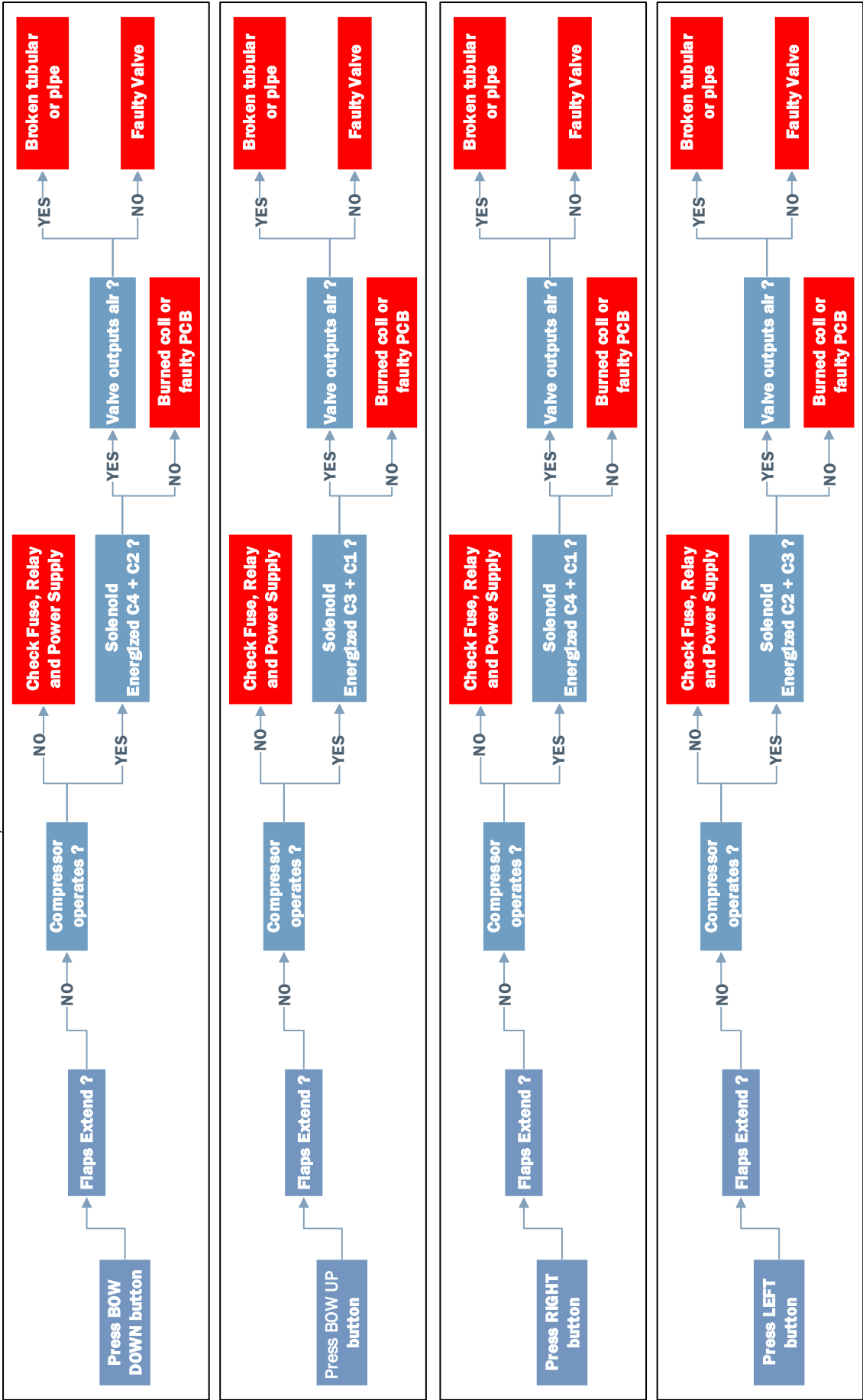
Double Speed Air Unit (ASM-01086-RD)



BOM ID	PartNo	Description	Qty	BOM ID	PartNo	Description	Qty
1	ELE-00034	AIR UNIT BOX BASE	1	15	PNE-00552	PILOT NO Φ9 3/2	4
2	ELE-00035	AIR UNIT BOTTOM CAP	1	16	PNE-00681	NUT 1/2	1
3	ELE-00181	MINIRELAY 24V 70A	1	17	PNE-00924	COIL EVI 7/9 10W	4
4	ELE-00361	ELASTIC HOLDER Φ9	1	18	PNE-00926	AIR UNIT VALVE BASE	1
5	ELE-00533	THERMOSTAT	2	19	PNE-01064	ADAPTOR, ELBOW MALE 1/8-Φ8	2
6	ELE-00535	M12, 5PIN MALE CONNECTOR	1	20	PNE-01208	COMPRESSOR, 20V	2
7	ELE-00540	PROTECTION CAP	1	21	PNE-01113	NUT	4
8	GEN-00168	SPRING CLAMP	2	27	REV-00111	MANIFOLD 1/8, 2 OUTPUTS	1
10	LAS-00114	MOUNTING BASE	1	28	REV-00184	FITTING, CUSTOM, 1/8	2
11	PNE-00009	CAP 1/8	2	29	REV-00422	THERMAL RELAY RECEPTACLE	2
12	PNE-00047	SILENCER 1/2	1	30	RUB-00023	VALVE RUBBER FRAME	1
13	PNE-00050	SILENCER, 1/8, PA	1	31	RUB-00024	CABLE RUBBER FRAME	1
14	PNE-00092	SAFETY VALVE, 1/8	1	32	RUB-00132	RUBBER MOUNT (MALE)	2
				33	RUB-00133	RUBBER MOUNT (FEMALE)	2

Troubleshooting

Before attempting any fault finding, check all fuses and that there is electric power to all connections



Warranty conditions

FW, TS and BT Series Interceptor units (and not complete systems) are covered by a 5-year Warranty.

SR Series Interceptor units (and not complete systems) are covered by a 2-year Warranty.

Recoil springs, electrical/electronic parts and devices come with a 2-year warranty.

Anodes (consumables) are not included in the warranty (for BT, FW, TS Series).

Hydrotab's warranty only covers the repair or replacement of spare parts.

System selections

It is the sole responsibility of the buyer to choose the correct system and even with Hydrotab's suggestion for a system, the overall responsibility is with the buyer.

Limited warranty

Provided that the system has been installed in accordance with the installation manual we provide, and no damage has been caused due to improper handling or practices, Hydrotab will replace any defective parts or parts that failed due to improper manufacturing within the applicable warranty period.

Hydrotab only covers the parts' replacement. Fitting or shipping costs are not covered by warranty.

Hydrotab will select if we will repair or replace any given part.

Repaired or replaced products will assume the remainder of the warranty time and under no conditions will the full time of warranty be renewed.

Limited warranty periods

Limited warranty period is two years (2 years) from the product shipment from our premises.

Extended limited warranty period

It is provided in case:

- a) Hydrotab trim system is included as equipment of a newly purchased boat directly by from the boat-builder or his reseller.
- b) Hydrotab trim system has been purchased through a Hydrotab dealer.

The extended limited warranty period is valid for three (3) years from the shipping date, provided that the customer has downloaded, completed and submitted the online registration form within one month (30) days from the purchase in the following url.

<https://www.hydrotab.gr/product-registration>

In case the dealer sells separate units of Interceptors, Air Units and Controllers that constitute a full system that is not initially sold (as a complete system) by Hydrotab, the dealer has the responsibility to provide the separate Serial Numbers for the Interceptors, Air Units and Controllers and guide the end user for the proper registration of his serial numbers for the extended warranty to be valid.

The authorized dealer is responsible for the product's service.

For any services or spare parts requirements and replacements during warranty period, the original invoice is necessary to be presented.

For the replacement of any part of the system (interceptors, Air Unit, any controller etc.) under warranty, the replaced parts must be returned to Hydrotab Marine Engineering for inspection, otherwise warranty is not valid.

Cost of dismantling - assembly and spare parts transportation is borne by the user.

The warranty does not foresee, under any circumstances, replacement of the whole Hydrotab system.

What is not covered by the warranty:

Damage caused by the lack or non-replacement of worn anodes (for BT, FW, TS Series).

Damage caused by improper installation and use not consistent with the manual.

Damage with external visible deformation of the product caused by misuse of the user or other external causes.

Damage to any component caused during transportation, installation or repair from non-authorized personnel.

Conversions or modifications made after the initial sale.

N. Triantafyllis Ltd (Hydrotab Marine Engineering) is not liable for any incidental, indirect or consequential damages or losses, including, without limitation: travel expenses, transport, lifting and hauling, costs, loss of income, loss of time, loss of property, loss of profits, personal injury or damage of any products, different from those that the company distributes. Any further (except the above mentioned) commitment of the intermediate dealer regarding the sale terms or servicing of Hydrotab products does not create any liability of our company.

Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

