



Marine Engineering



NMEA 2000  
NMEA 0183

## Hydrotab SR Installation & Operator's Manual

## **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**

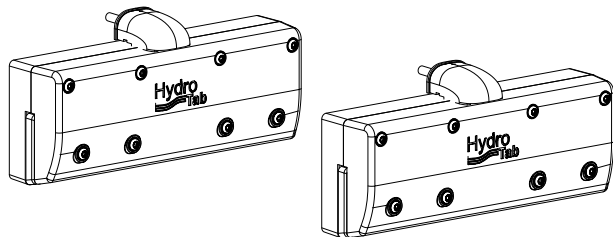
Please register your product online in order the warranty to be valid.

## Table of Contents

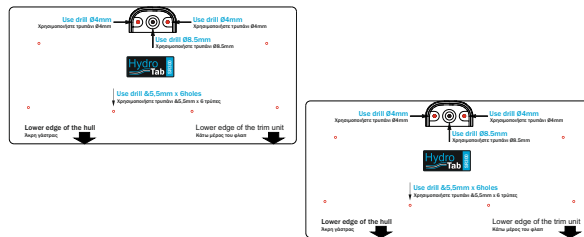
Disclaimer	2
Installation Kit	4
Required Tools for Installation	5
Before Installation	5
Safety precautions	5
Proper Interceptor Installation in Transom	6
Interceptor Installation	7
Interceptor Installation (Indirect Air Supply)	9
Air Unit Installation	9
Pneumatic Connection	10
Air Unit Fuse Replacement	10
Moby Controller Installation	11
Air Unit: Direct Installation Diagram	12
Air Unit: Installation diagram on existing NMEA Network	12
Double Speed Air Unit: Direct Installation Diagram	13
Double Speed Air Unit: Installation diagram on existing NMEA Network	13
Single Air Unit Electrical Diagram	14
Single Air Unit Pneumatic Diagram	14
Double Speed Air Unit Electrical Diagram	15
Double Speed Air Unit Pneumatic Diagram	15
Spare Parts List - Model: 300SR (ASM-01269)	16
Spare Parts List - Model: 450SR (ASM-01285)	17
Spare Parts List - Air Unit (ASM-01065)	18
Spare Parts List - Double Speed Air Unit (ASM-01174)	19
Troubleshooting	20
Warranty Conditions	21

## Installation Kit

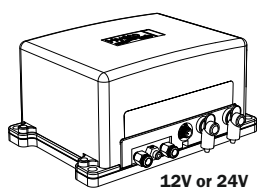
### 1. Two interceptors



### 2. Two interceptor drilling patterns



### 3. One Hydrotab AIR unit 12 OR 24VDC



### 4. Cables



Inline terminator



3m-supply cable - Female

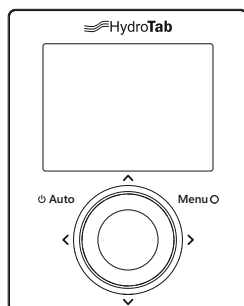


10m Female-Female

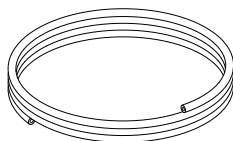


3m Male-Female

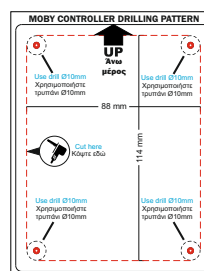
### 5. Moby Controller



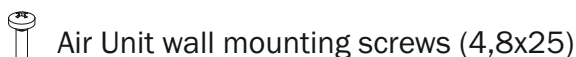
### 6. Pipe 10mm



### 7. Moby Controller Drilling Pattern



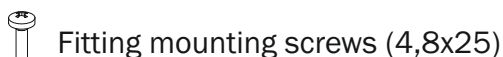
### 8. Screws



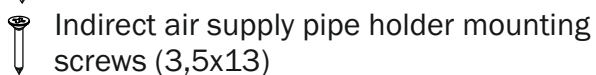
Air Unit wall mounting screws (4,8x25)



Interceptor mounting screws (6,3x32)

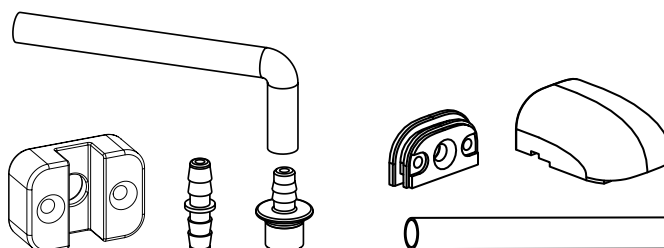


Fitting mounting screws (4,8x25)

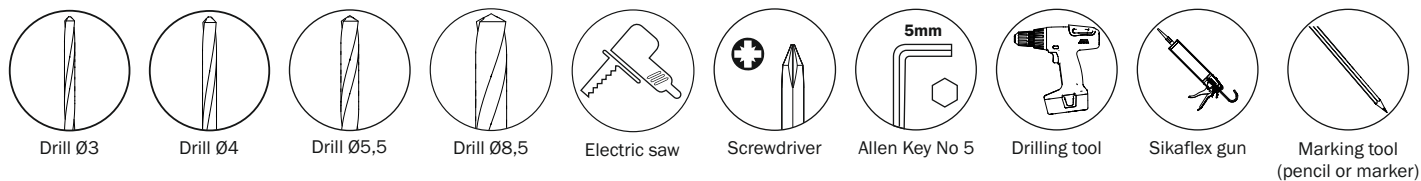


Indirect air supply pipe holder mounting screws (3,5x13)

### 9. Fittings



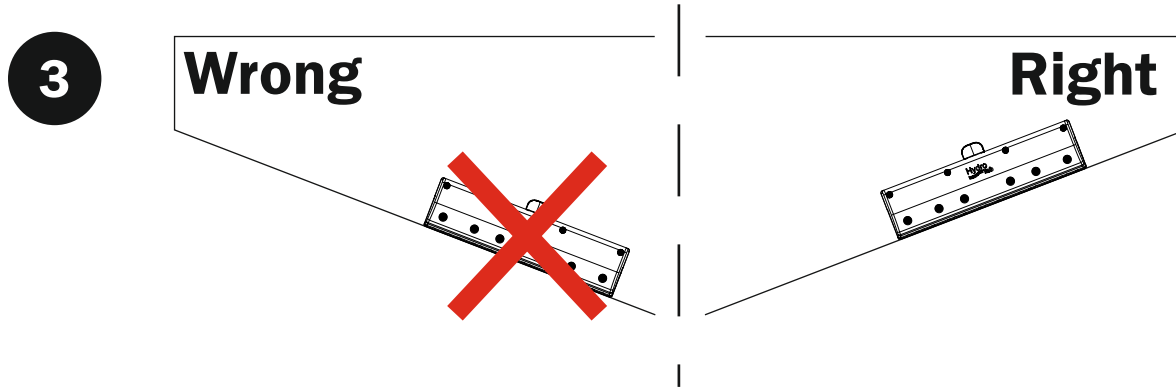
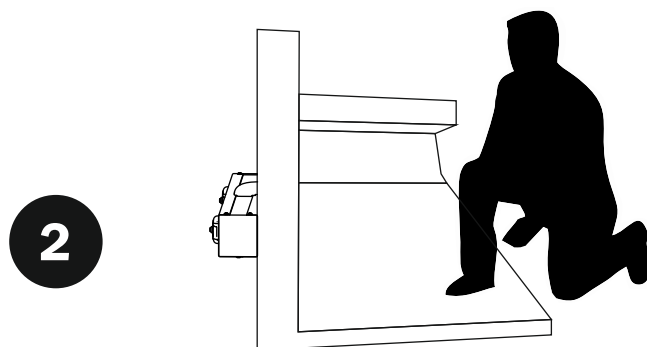
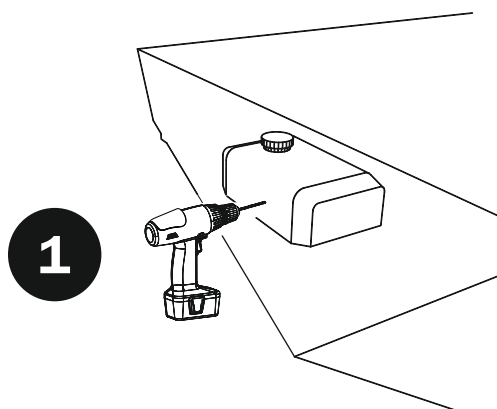
### Required Tools for Installation



### 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).

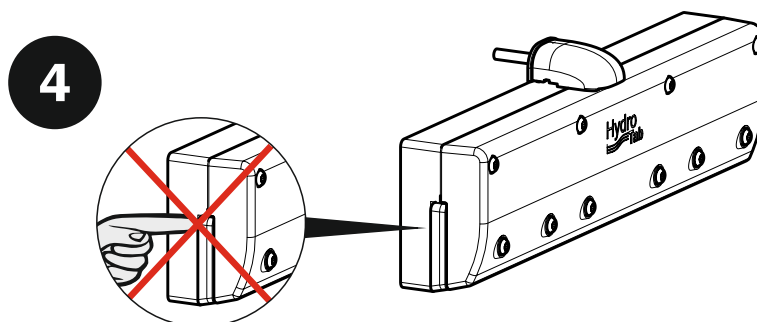


A good hint is that the closer the units are to the water line, the best the bank control of the boat will be (Figure 3).

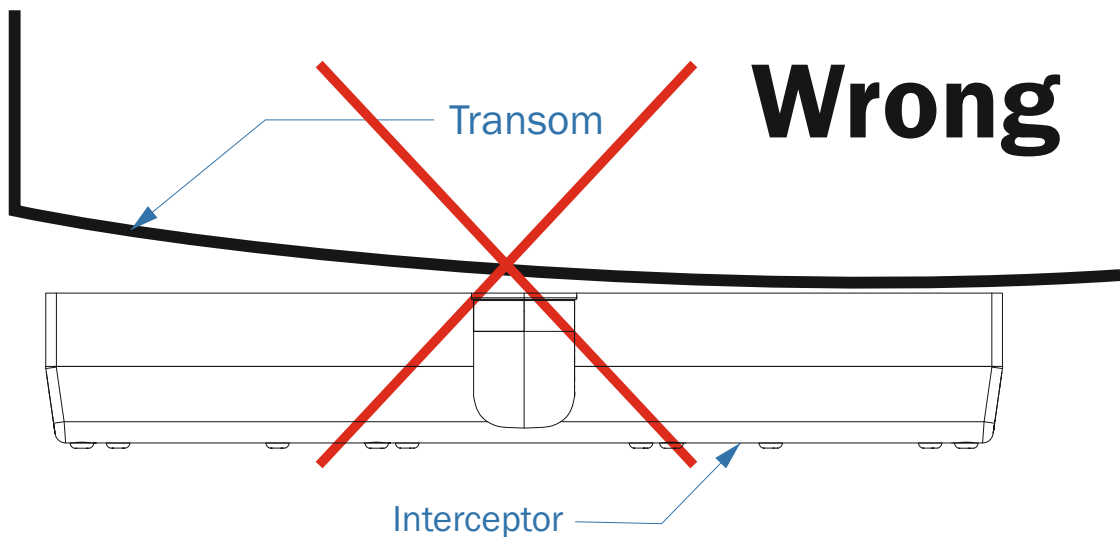
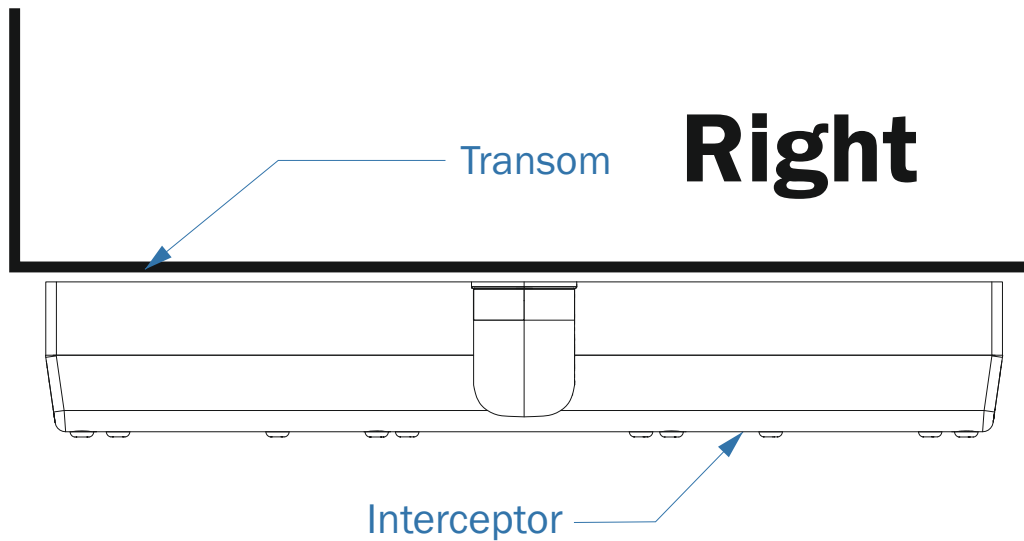
### **WARNING!**

### 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!!!**

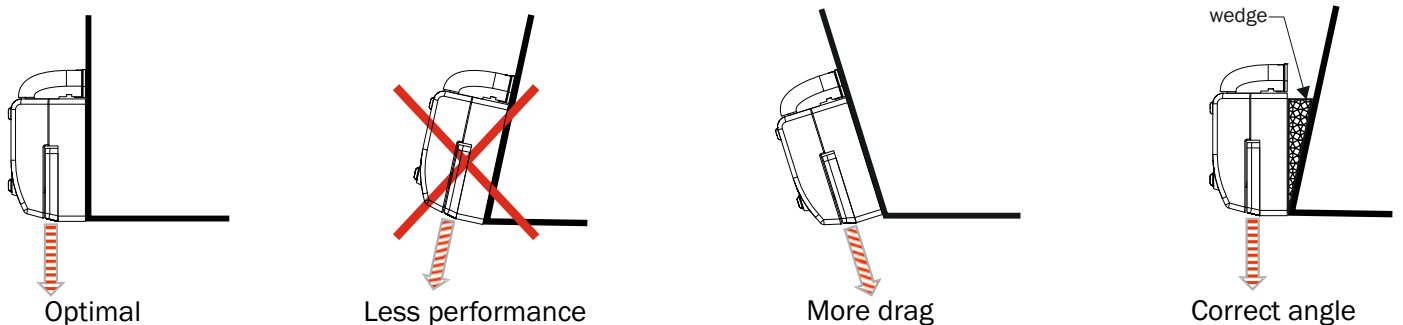


**Proper interceptor installation in transom**



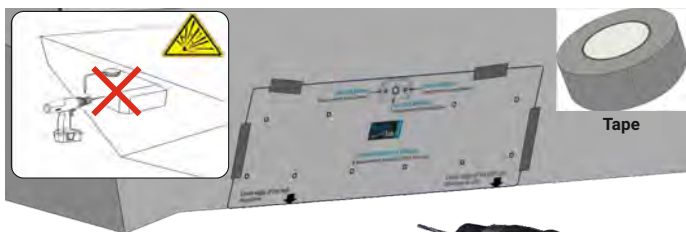
If the boat's transom has a significant curvature, it is necessary to create a flat plane for the installation (acceptable flatness tolerance: 2mm).

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.

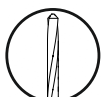


For maximum performance and less drag, install interceptors on the transom so blades deploy vertically. If transom is not vertical to water plane, correct the angle by using wedges or other means.

## Interceptor Installation



### You will need

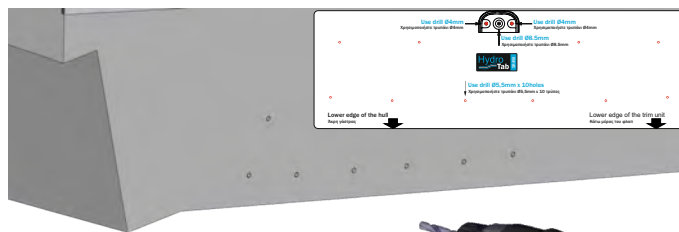


No 3

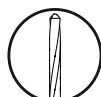
Drill all the pattern holes with a 3mm bore without removing the pattern.



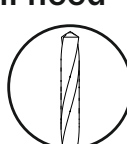
5



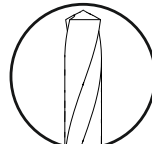
### You will need



No 4



No 5,5

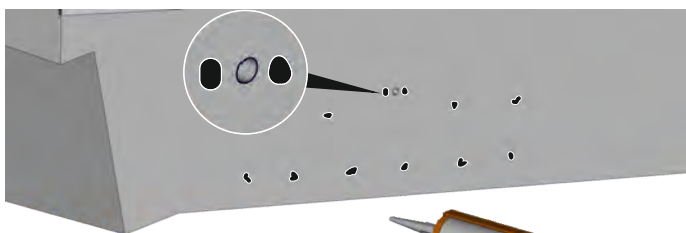


No 8,5

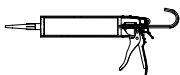
Remove the pattern and drill according to the pattern indications.



6



### You will need

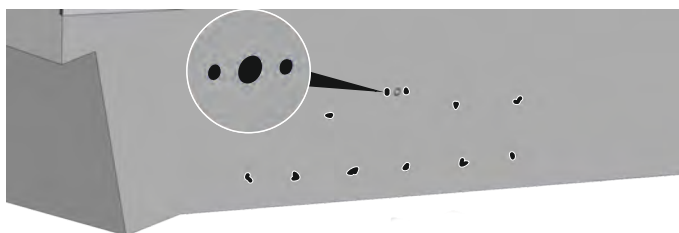


Sikaflex Gun

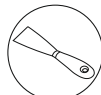
Apply sealant Sikaflex 291 to the holes.



7



### You will need



Spatula

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

8



9

### You will need

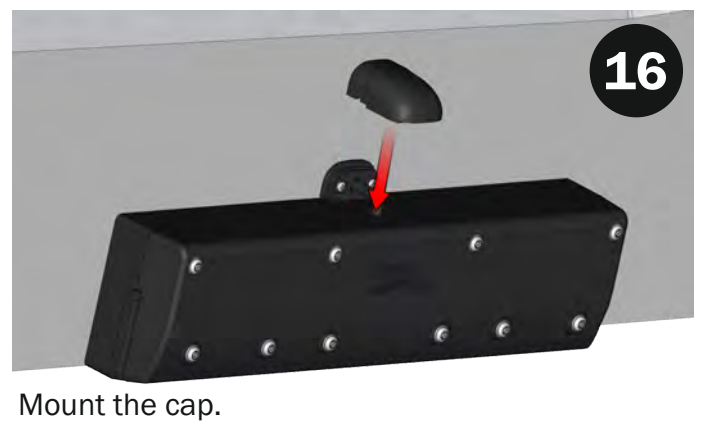
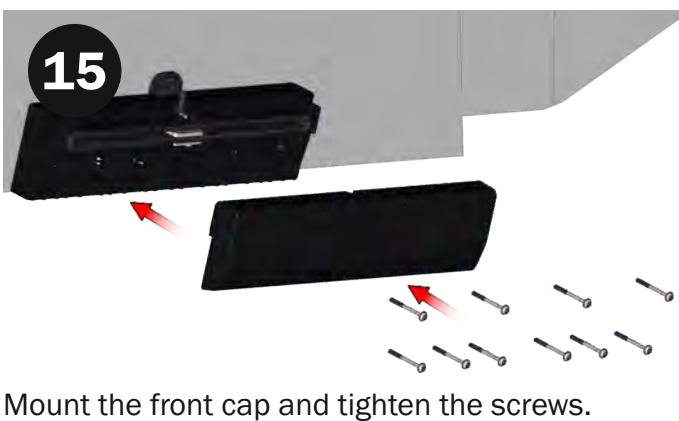
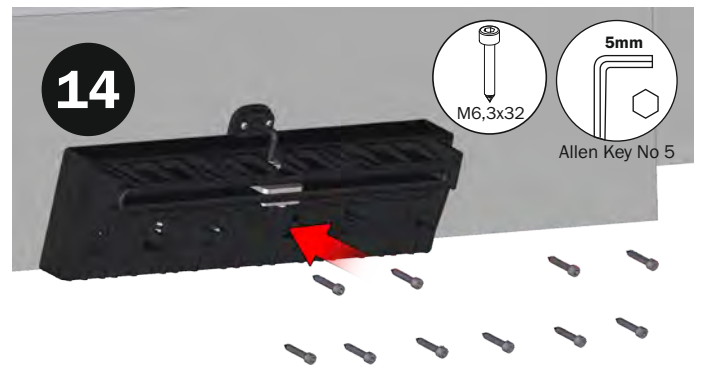
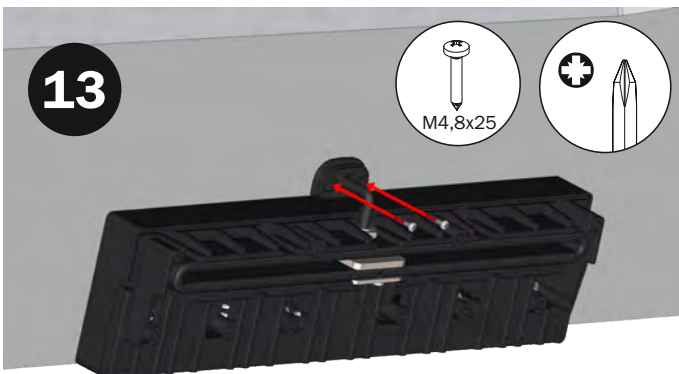
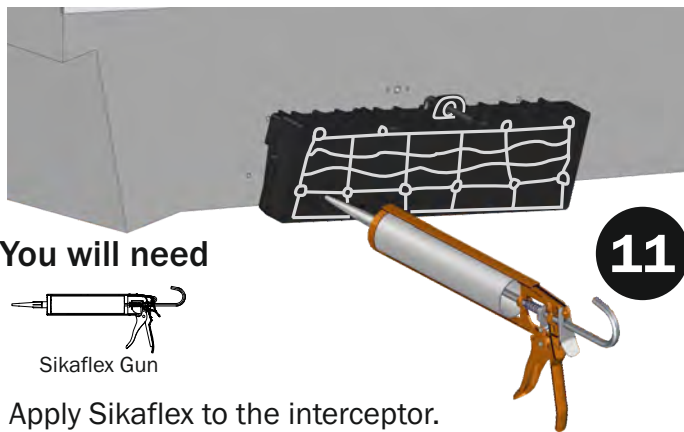
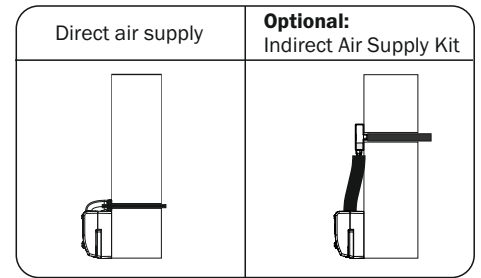


Torx T30

Remove the screws and open the interceptor.

## Interceptor Installation

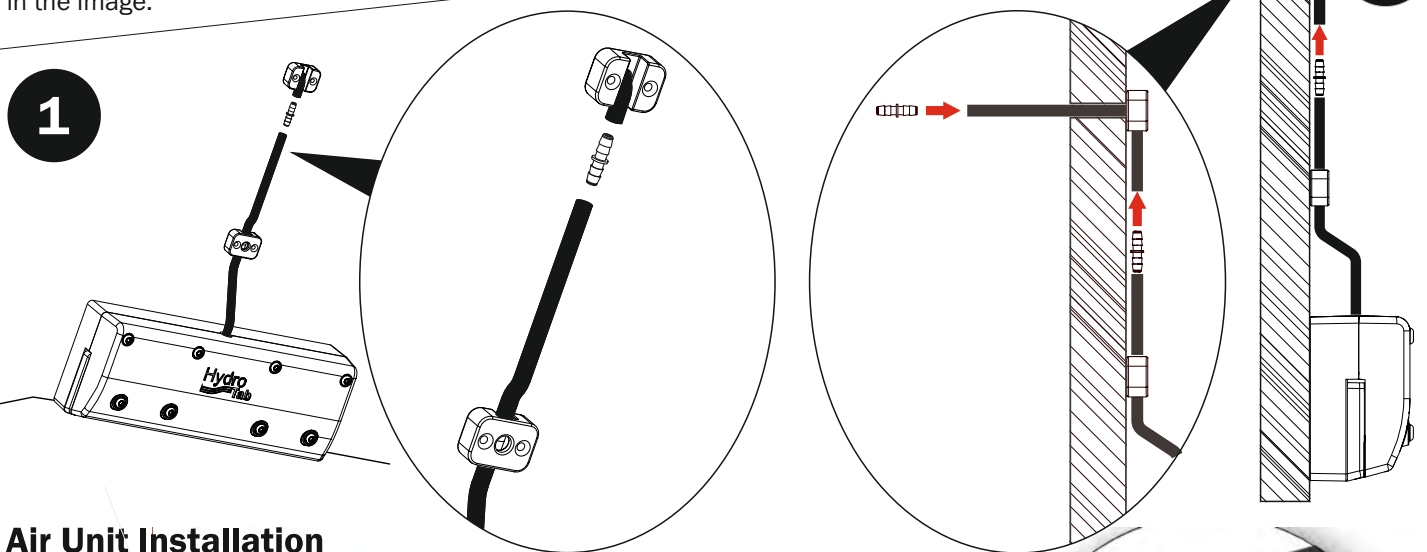
**10** For Direct Air Supply: Advise the instructions.  
For Indirect Air Supply: Use the components included in the kit.



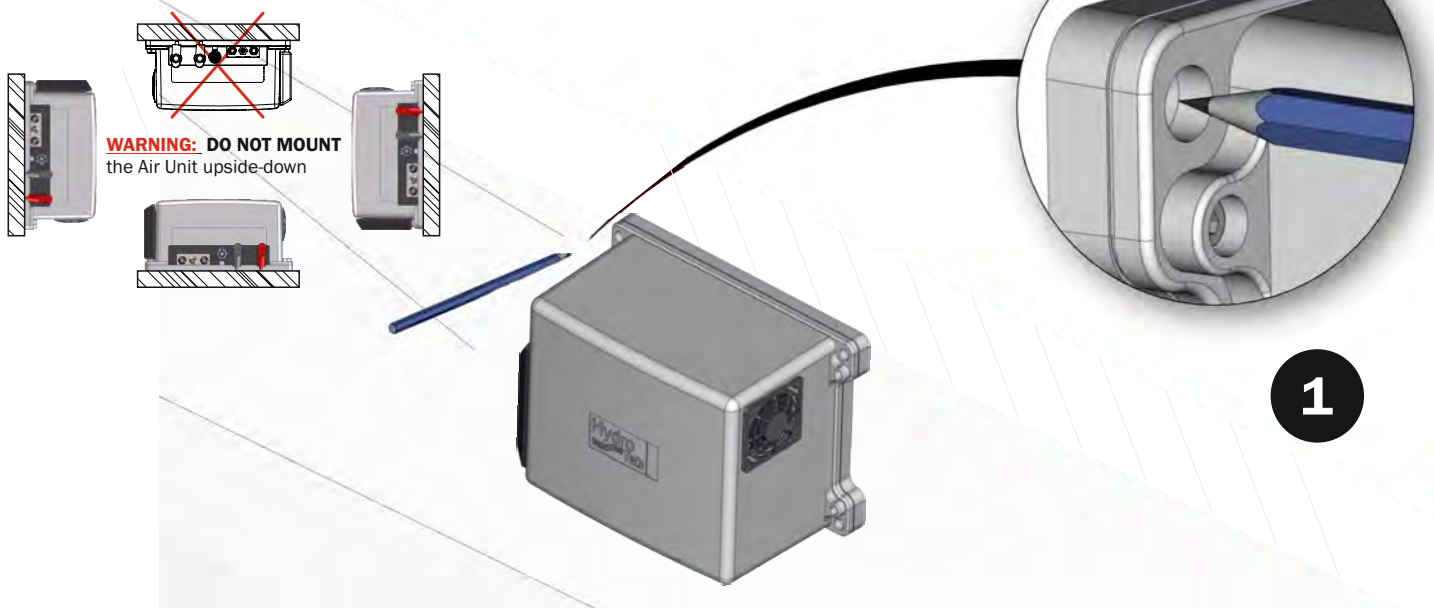


### Interceptor Installation (indirect air supply)

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



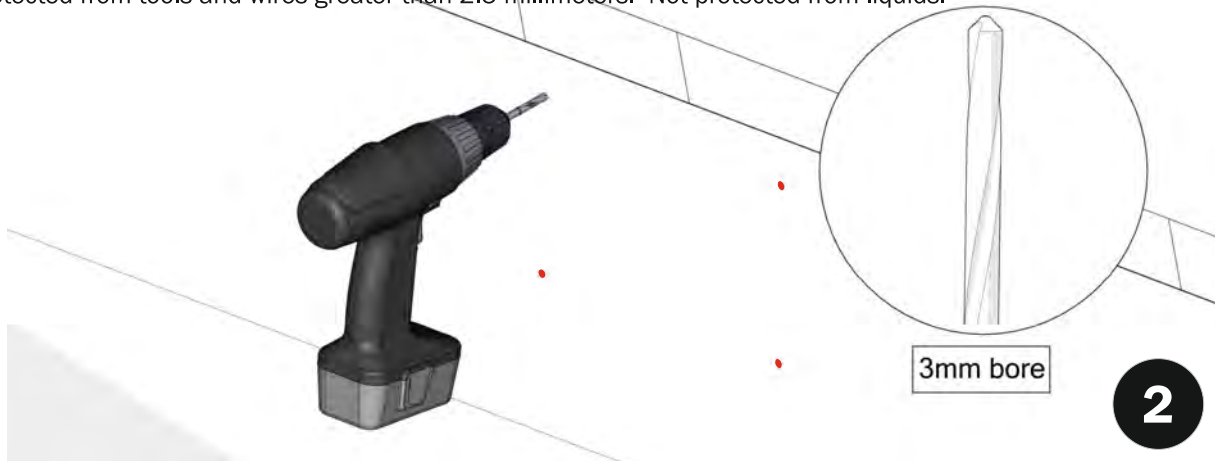
### Air Unit Installation



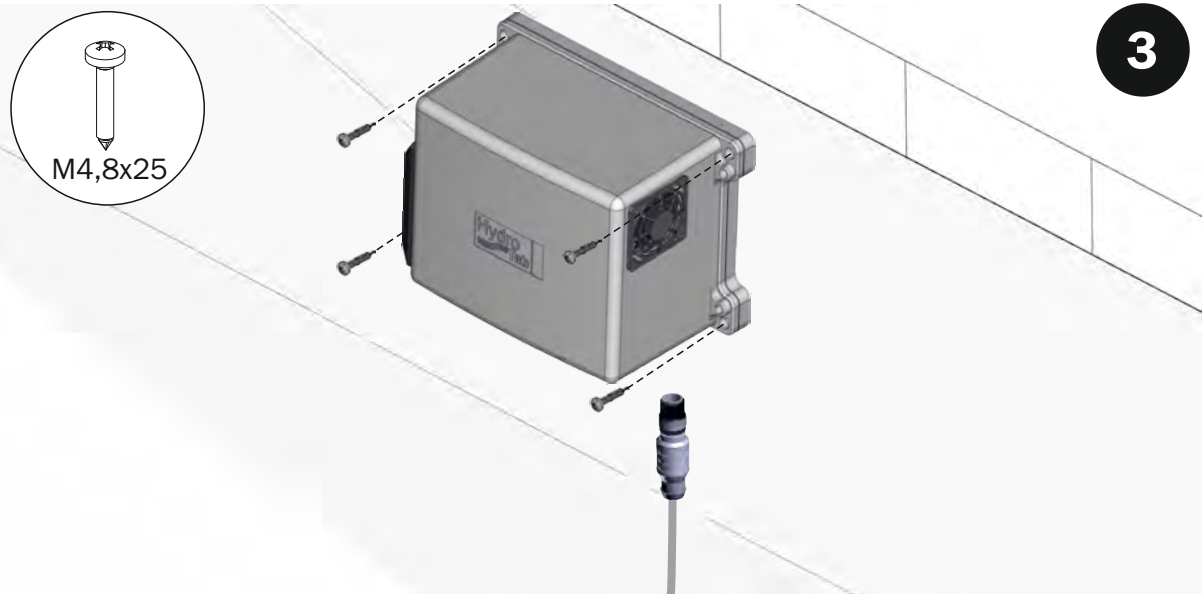
**WARNING:** THE AIR UNIT MUST BE INSTALLED IN A COMPARTMENT **FREE OF EXPLOSIVE OR FLAMMABLE GASES**

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

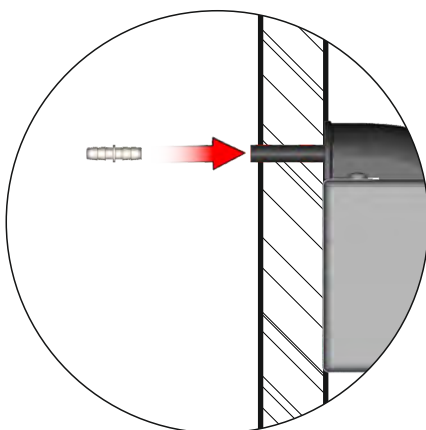
IP30: Protected from tools and wires greater than 2.5 millimeters. Not protected from liquids.



## Air Unit Installation



## Pneumatic Connection

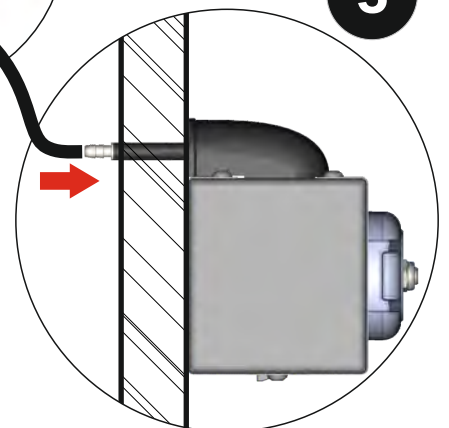


**!** After you install the hose through the transom, mount the air fitting into the hose.

4



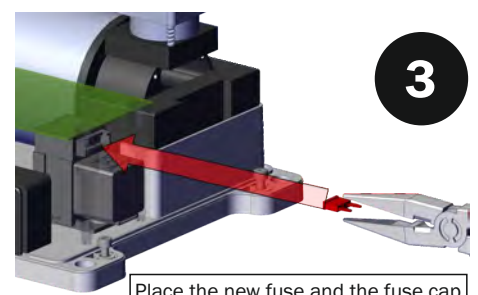
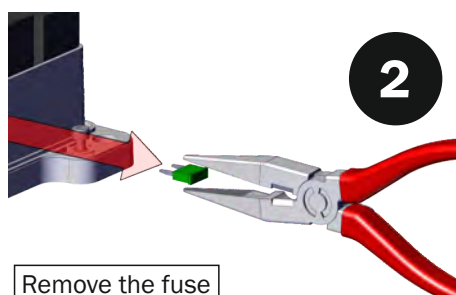
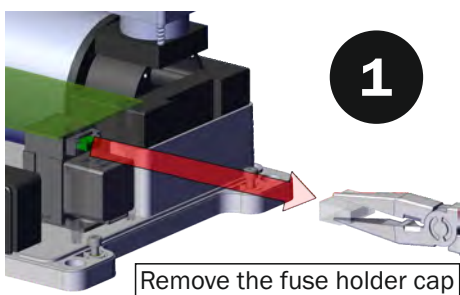
Cut the 8mm pipe at the proper length and connect it to the Air Unit



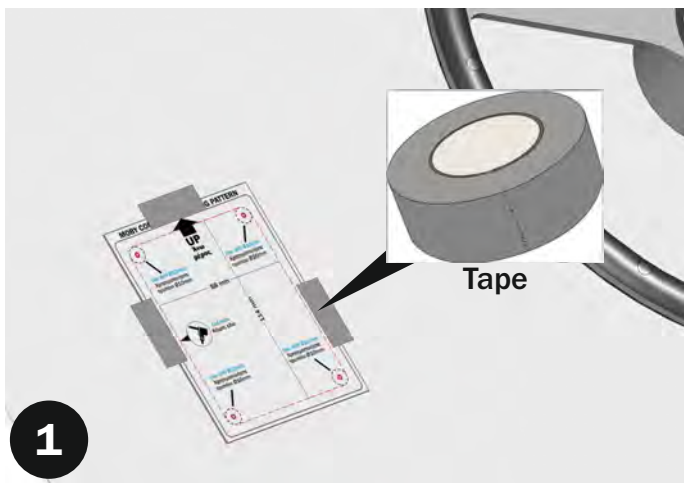
Connect the push-in fitting

## Air Unit Fuse Replacement

**WARNING:** Remove carefully the Air Unit Top Cover, and ensure that the mounted cables are not pulled out from the connector



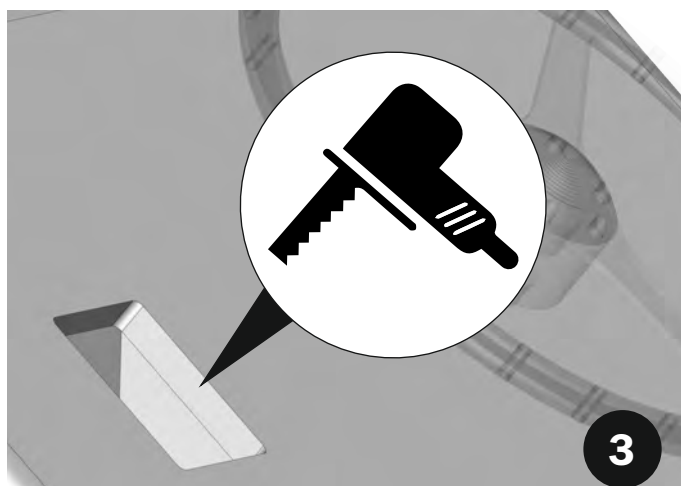
## Moby Controller Installation



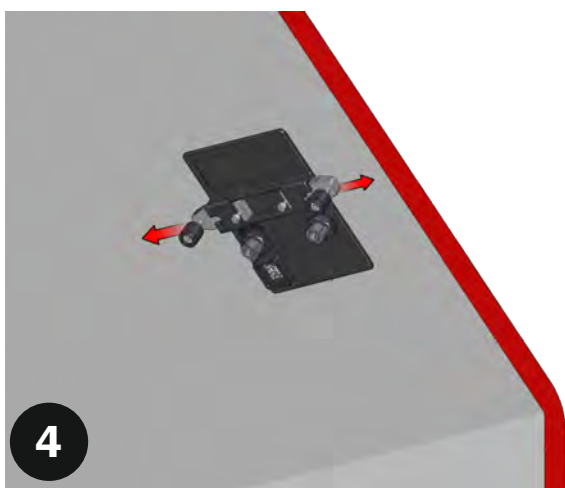
1. Place the Moby Drilling Pattern in the desired position (preferably a clean and easy-to-access area near the steering wheel of the boat).



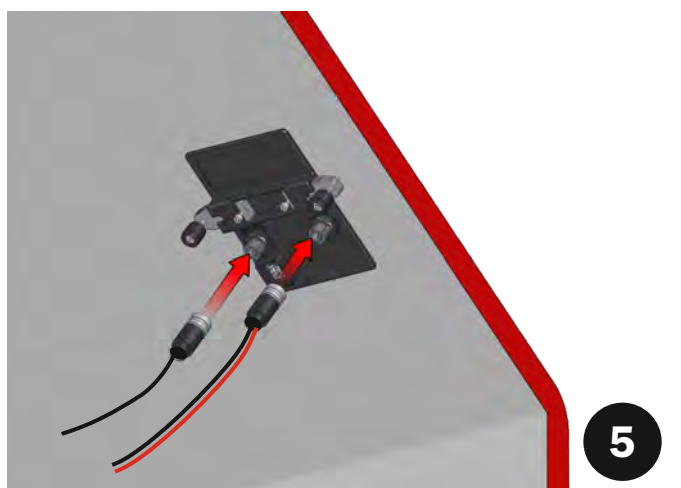
3. Drill the 4 holes according to the provided drilling pattern with a 10mm bore.



4. Create the central hole with an electric handsaw.

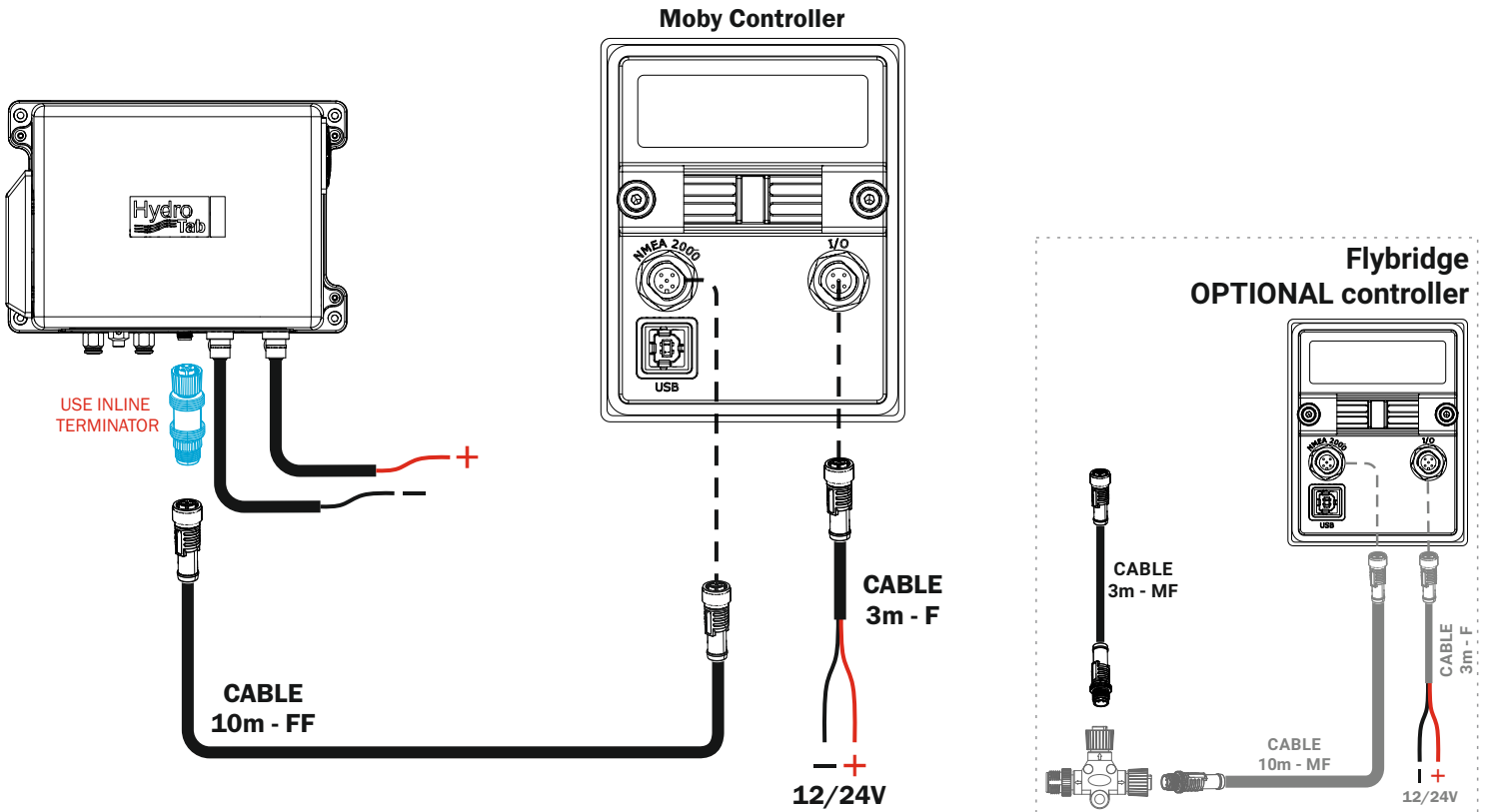


4. Place the Moby Controller in its position, and mount it from the internal of the cockpit, with the given screws.



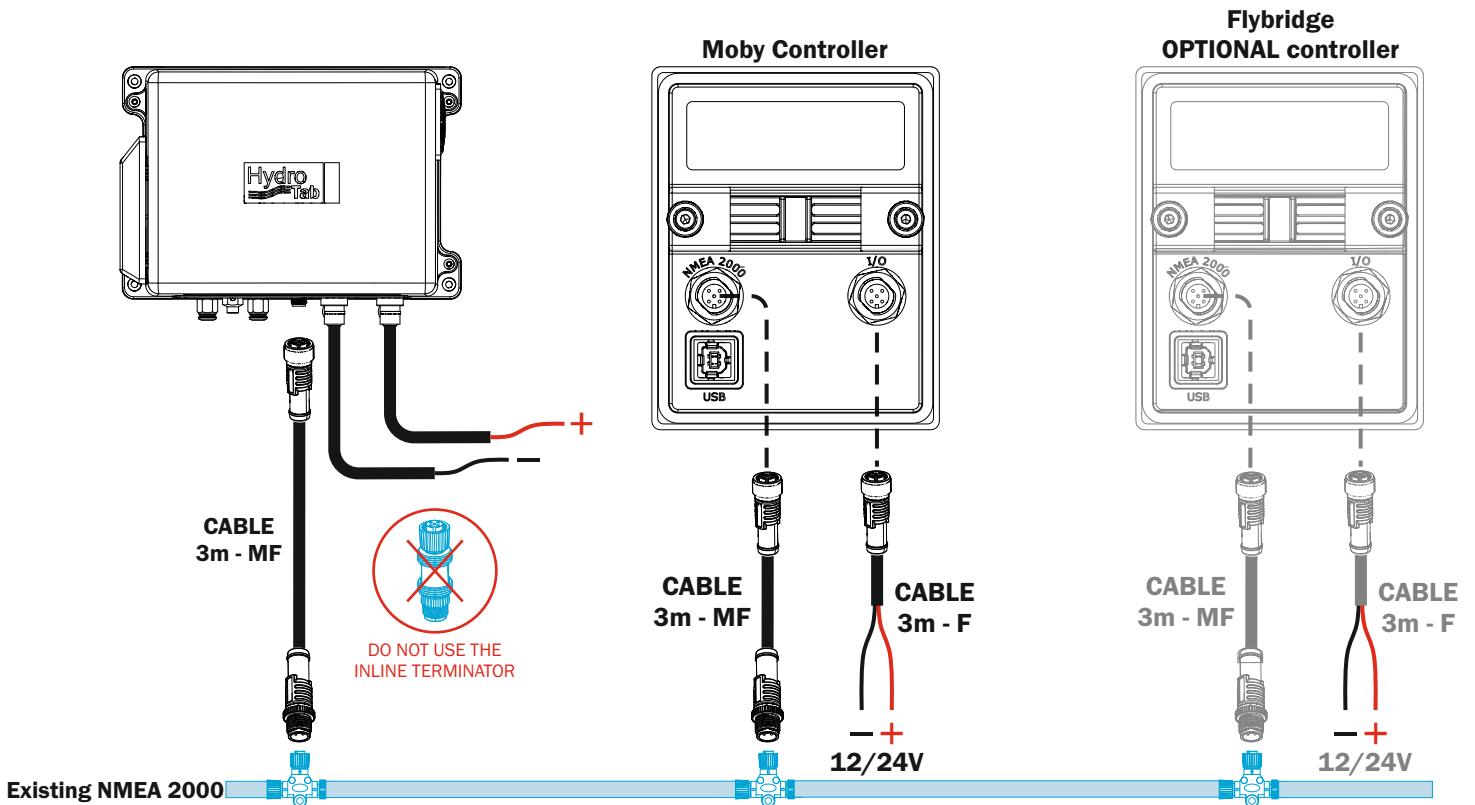
5. Mount the connection plugs in the 5-pole ports.

## Direct Installation Diagram

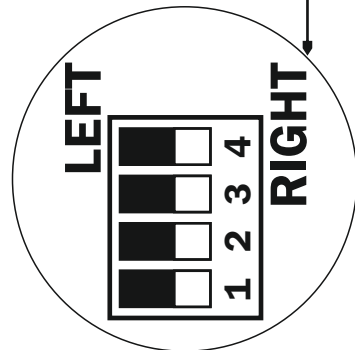
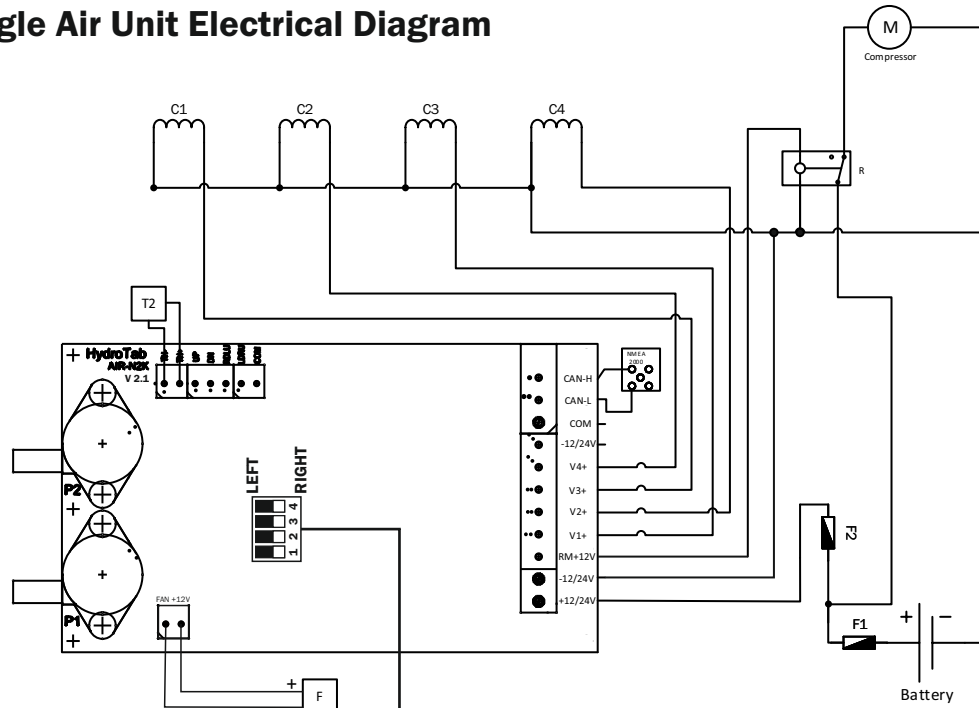


In case a new NMEA 2000 instrument to be added, a proper NMEA Network must be built.

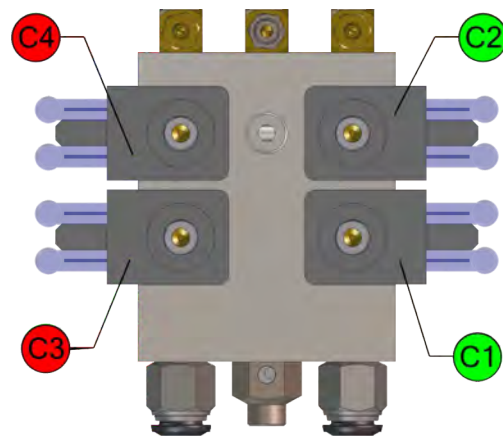
## Installation diagram on existing NMEA Network



## Single Air Unit Electrical Diagram

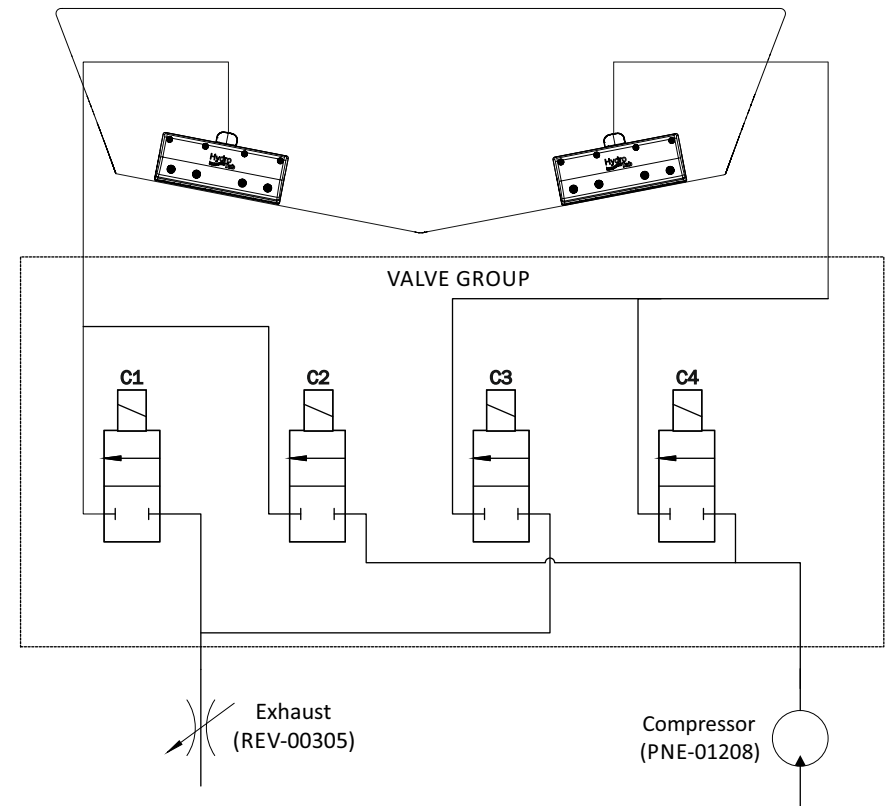


**IMPORTANT:**  
THE SWITCHES MUST BE STRICTLY SET  
AS SHOWN (DIP1, DIP2, DIP3, DIP4 RIGHT)



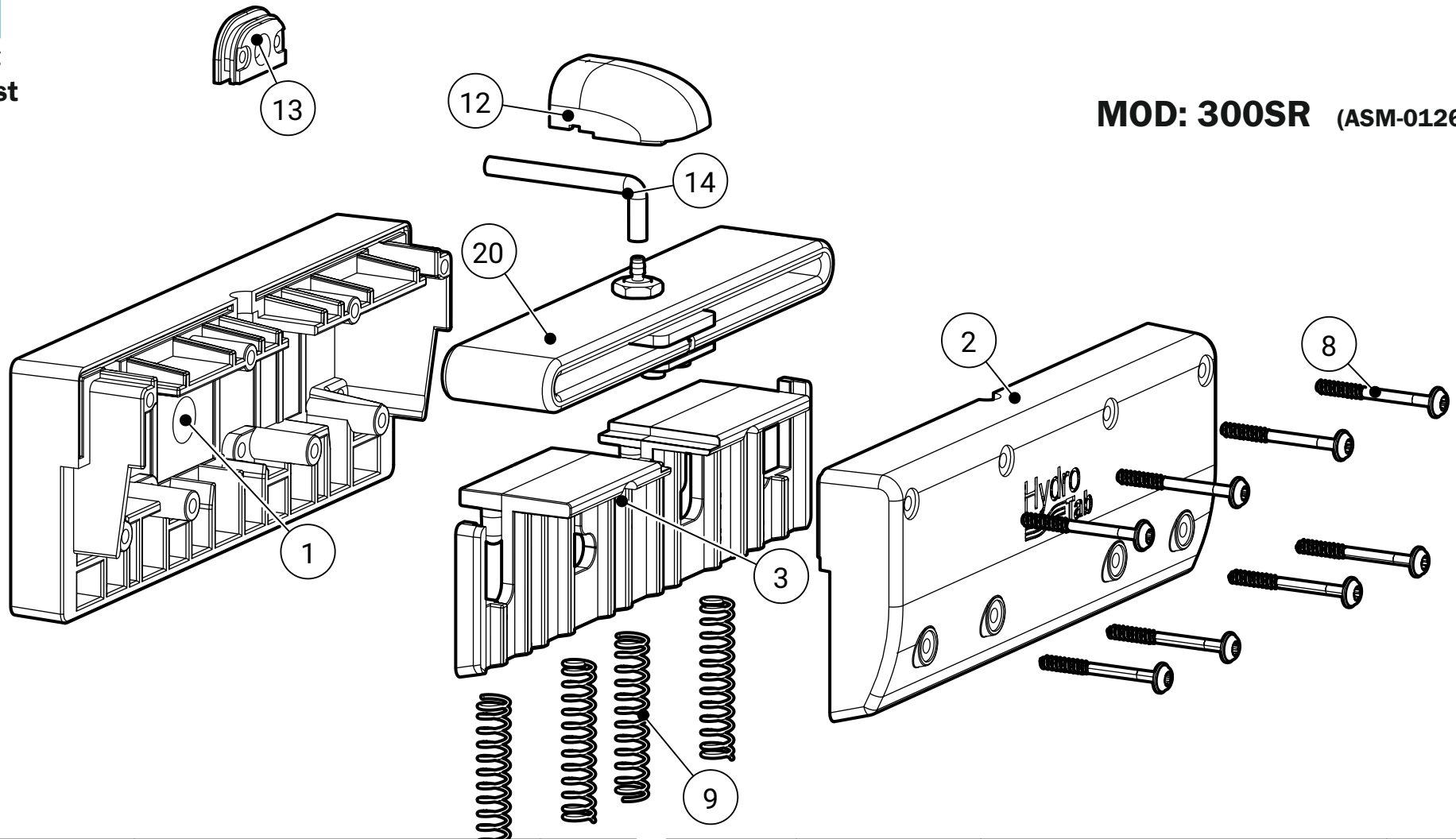
- Port Valves
- Starboard Valves

## Single Air Unit Pneumatic Diagram



SYMBOL	PART No	DESCRIPTION	NOTES
C1	PNE-00924	VALVE COIL	STARBOARD RETRACT
C2	PNE-00924	VALVE COIL	STARBOARD EXTEND
C3	PNE-00924	VALVE COIL	PORT RETRACT
C4	PNE-00924	VALVE COIL	PORT EXTEND
F1		MAIN SUPPLY FUSE 25A	NOT PROVIDED
F2	ELE-00380	ELECTRONICS FUSE 3A	
M	PNE-01208	COMPRESSOR MOTOR	
F	ELE-00591	COOLING FAN	
T2	ELE-00550	TEMPERATURE SENSOR	

**MOD: 300SR (ASM-01269)**

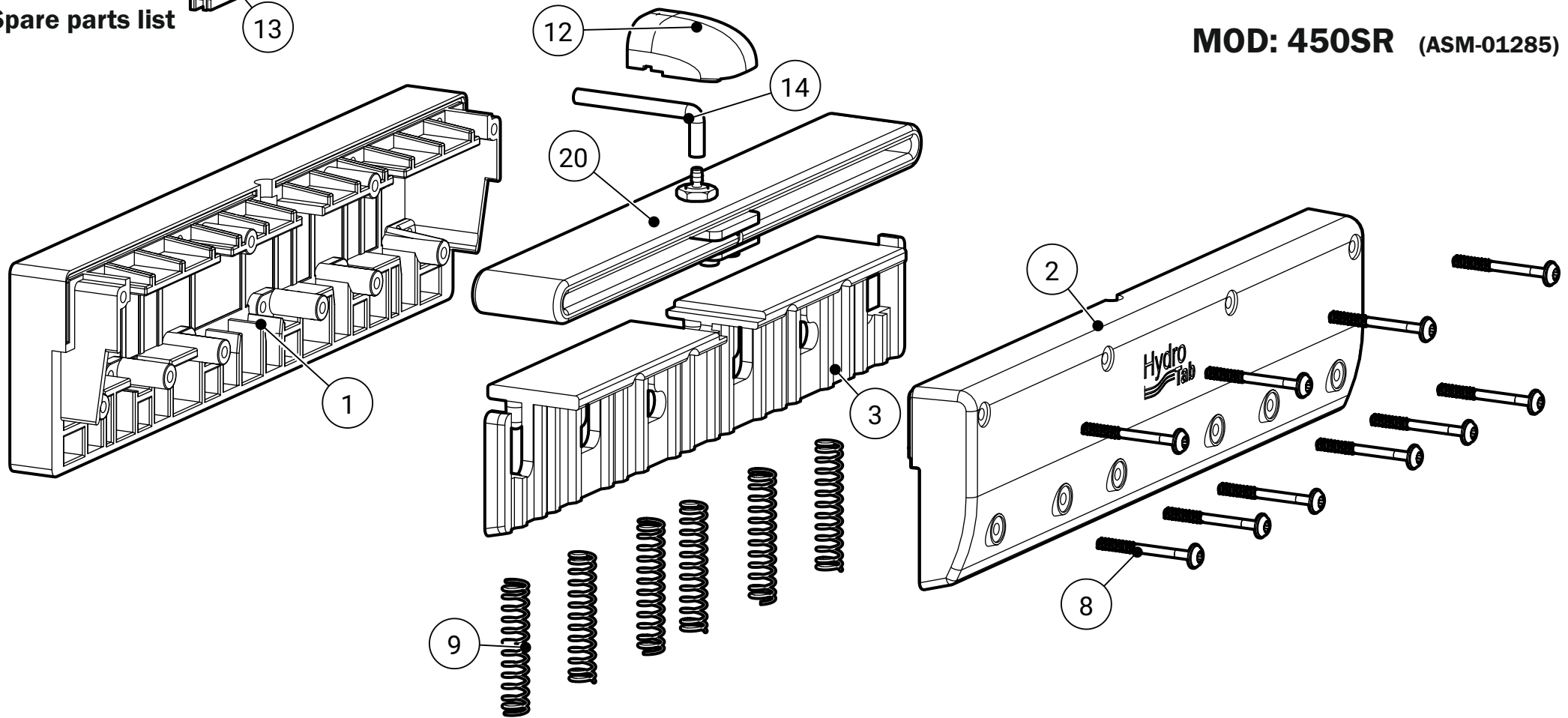


BOM ID	PartNo	Description	QTY.
1	GEN-00506	SR300 BACK BODY	1
2	GEN-00508	SR300 FRONT COVER	1
3	GEN-00507	SR300 BLADE	1
8	FAS-02549	SCREW 6,1x48(23)	8
9	SPR-00037	SPRING	4

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)**



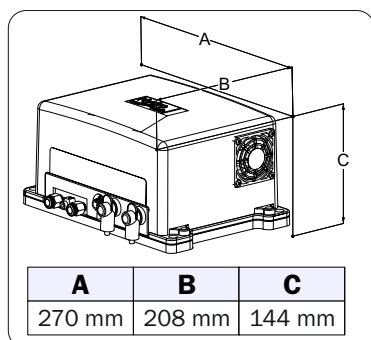
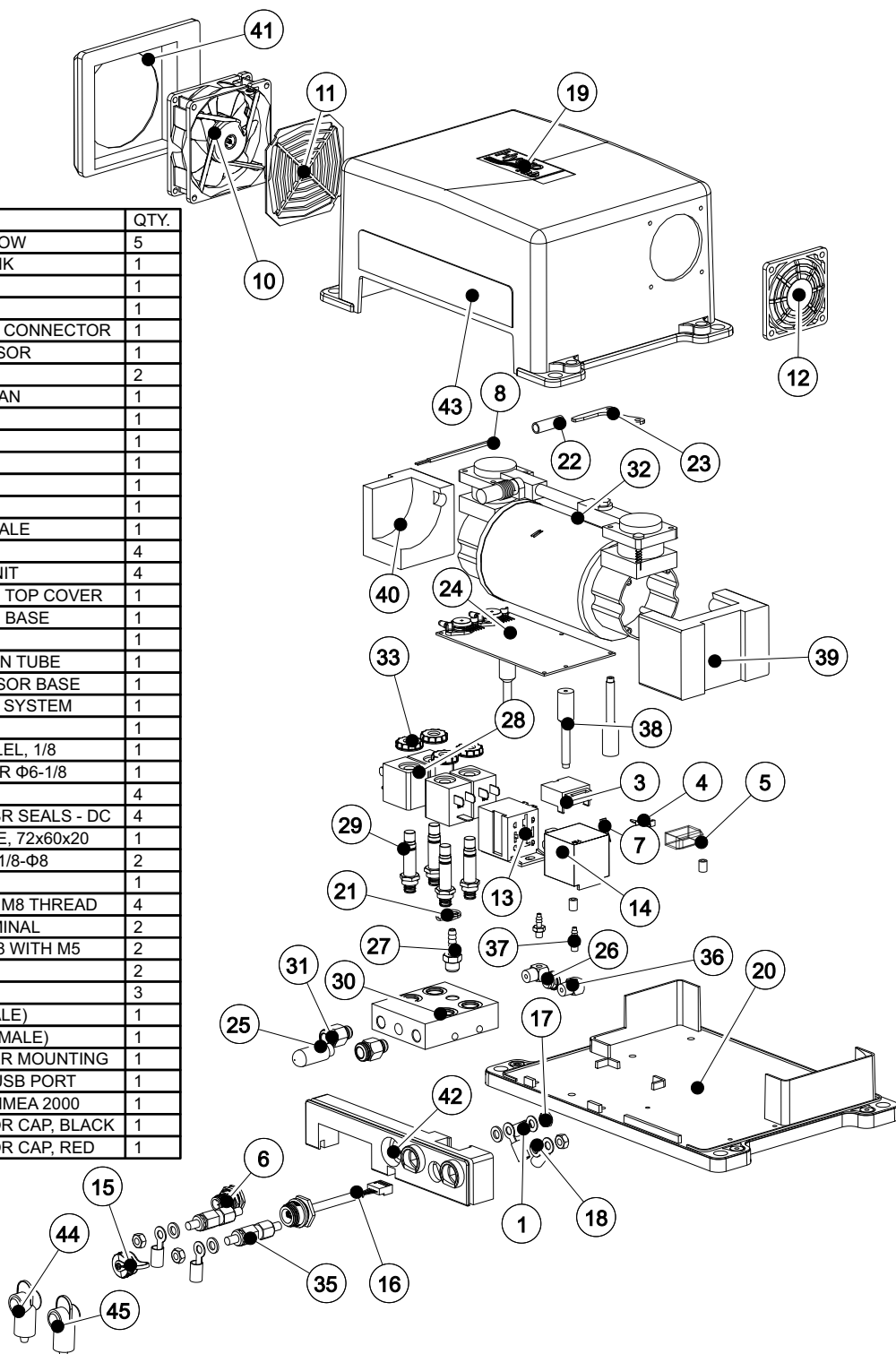
BOM ID	PartNo	Description	Qty
1	GEN-00520	SR450 BACK BODY	1
2	GEN-00522	SR450 FRONT COVER	1
3	GEN-00521	SR450 BLADE	1
8	FAS-02549	SCREW 6,1x48(23)	10
9	SPR-00037	SPRING	6

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

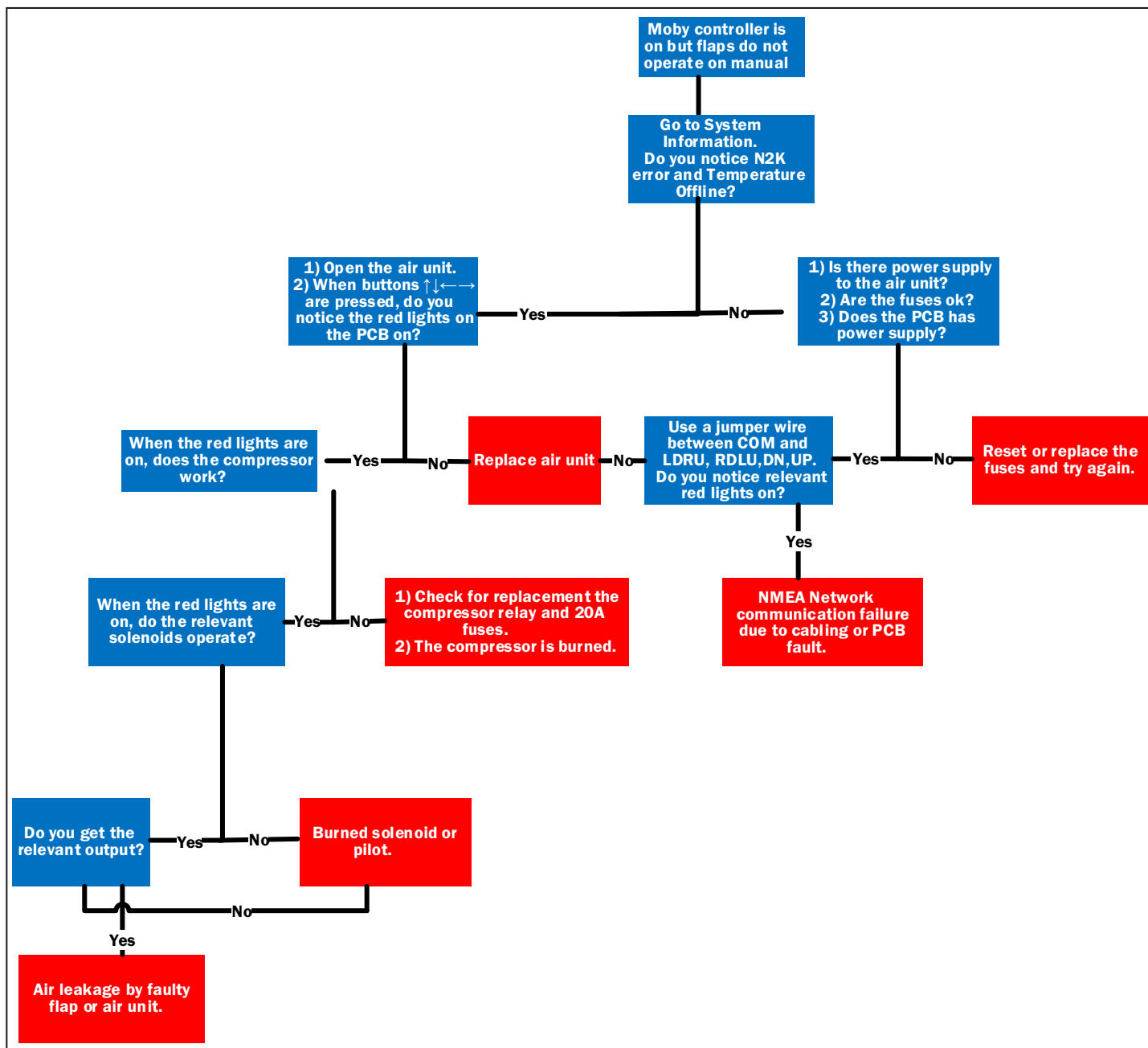
### AIR UNIT (ASM-01065-RH)

BOM ID	PART NUMBER	DESCRIPTION	QTY.
1	ELE-00106	TERMINAL, Φ6, YELLOW	5
3	ELE-00376	ENCLOSED FUSE LINK	1
4	ELE-00380	FUSE 3A	1
5	ELE-00381	FUSE HOLDER CAP	1
6	ELE-00535	M12, 5PIN PCB MALE CONNECTOR	1
7	ELE-00550	TEMPERATURE SENSOR	1
8	ELE-00562	SILICON CABLE	2
10	ELE-00591	AIR UNIT COOLING FAN	1
11	ELE-00592	GRID	1
12	ELE-00593	GRID 60x60	1
13	ELE-00634	RELAY BASE, BIG	1
14	ELE-00637	RELAY 12V 60A 4PIN	1
15	ELE-00646	USB SEALING CAP	1
16	ELE-00647	MINI USB PORT, FEMALE	1
17	FAS-02323	NUT FOR AIR UNIT	4
18	FAS-02324	WASHER FOR AIR UNIT	4
19	GEN-00156	HYDROTAB AIR UNIT, TOP COVER	1
20	GEN-00157	HYDROTAB AIR UNIT, BASE	1
21	GEN-00168	SPRING CLAMP	1
22	GEN-00505	SILICON PROTECTION TUBE	1
23	LAS-01170	TEMPERATURE SENSOR BASE	1
24	PCB-00029	PCB FOR NMEA 2000 SYSTEM	1
25	PNE-00050	SILENCER, 1/8, PA	1
26	PNE-00072	PLUG, MALE, PARALLEL, 1/8	1
27	PNE-00198	MALE HOSE ADAPTER Φ6-1/8	1
28	PNE-00924	COIL EVI 7/9 10W	4
29	PNE-00925	KANOTTO 2/2NC - NBR SEALS - DC	4
30	PNE-00926	AIR UNIT VALVE BASE, 72x60x20	1
31	PNE-01001	FITTING, STRAIGHT, 1/8-Φ8	2
32	PNE-01208	COMPRESSOR, 20V	1
33	PNE-01113	KNURLED NUT WITH M8 THREAD	4
35	REV-00304	COMPRESSOR TERMINAL	2
36	REV-00362	CUSTOM FITTING, 1/8 WITH M5	2
37	REV-00419	FITTING	2
38	REV-00443	LONG PCB SPACER	3
39	RUB-00132	RUBBER MOUNT (MALE)	1
40	RUB-00133	RUBBER MOUNT (FEMALE)	1
41	RUB-00134B	COOLER FAN RUBBER MOUNTING	1
42	RUB-00149	FRONT COVER with USB PORT	1
43	STK-00155	STICKER, AIR UNIT, NMEA 2000	1
44	ELE-00369	TERMINAL INSULATOR CAP, BLACK	1
45	ELE-00368	TERMINAL INSULATOR CAP, RED	1





## Troubleshooting



### **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.

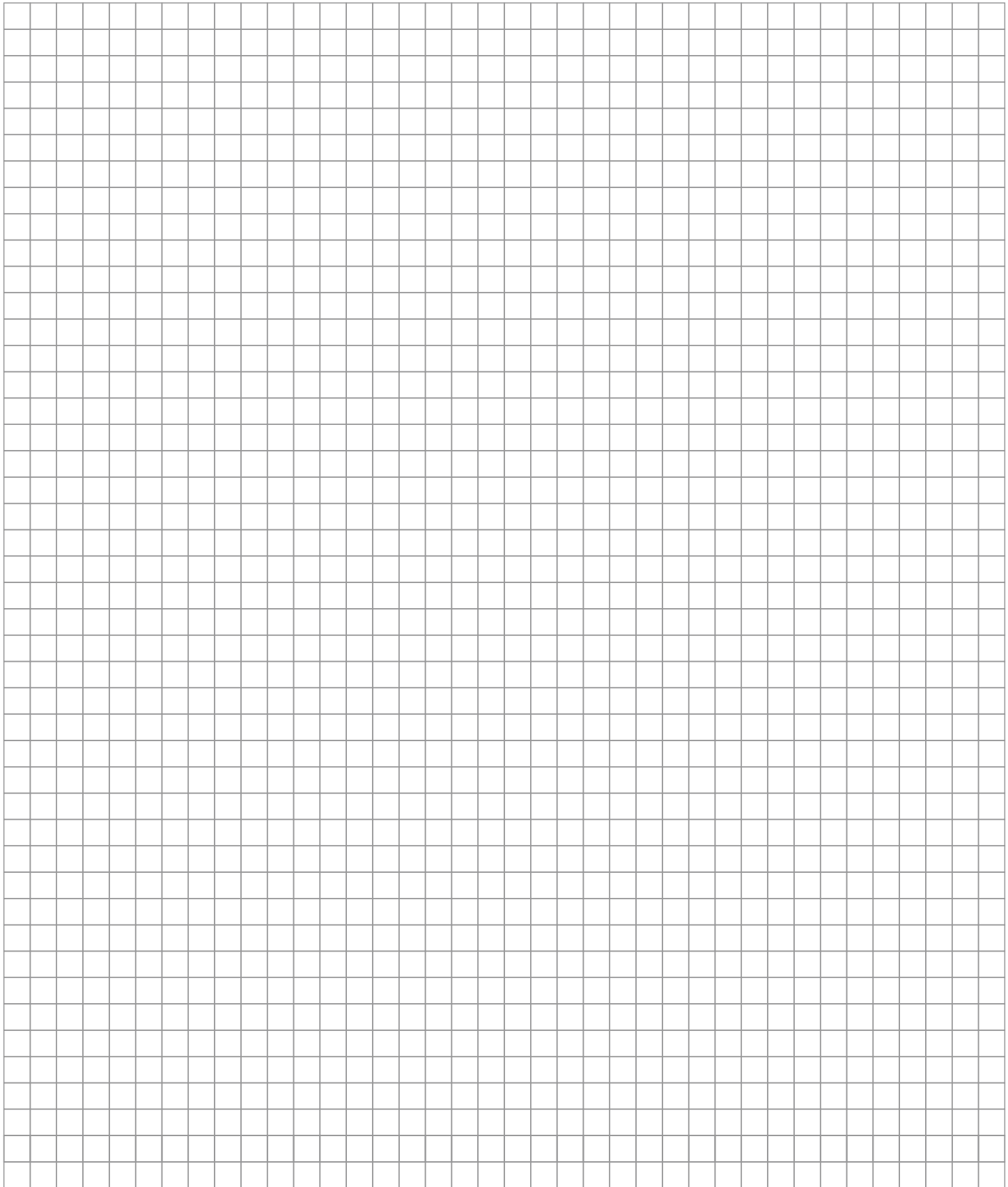
Damage to any component caused during transportation, installation or repair from non-authorized personnel.

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**





4, Papazoglou str.  
GR-17778 Athens  
Greece  
email: [info@hydrotab.gr](mailto:info@hydrotab.gr)  
website: [www.hydrotab.gr](http://www.hydrotab.gr)