



NMEA-2K

MOBY Controller

Rev.: [H]



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 vessels's course, rising from malfunction of interceptors, should be dealt immediately by the operator.

Under 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 or company names referenced herein are used for identification only and are property of their respective owners.

Patent Notice

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 specs, without prior notice. Liability will not be held for any inaccuracy, considering the product and the user manual.

Fair Use Statement

This manual can be printed or copied for private 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 done, according to the Waste Electrical and Electronic Equipment (WEEE) Directive.

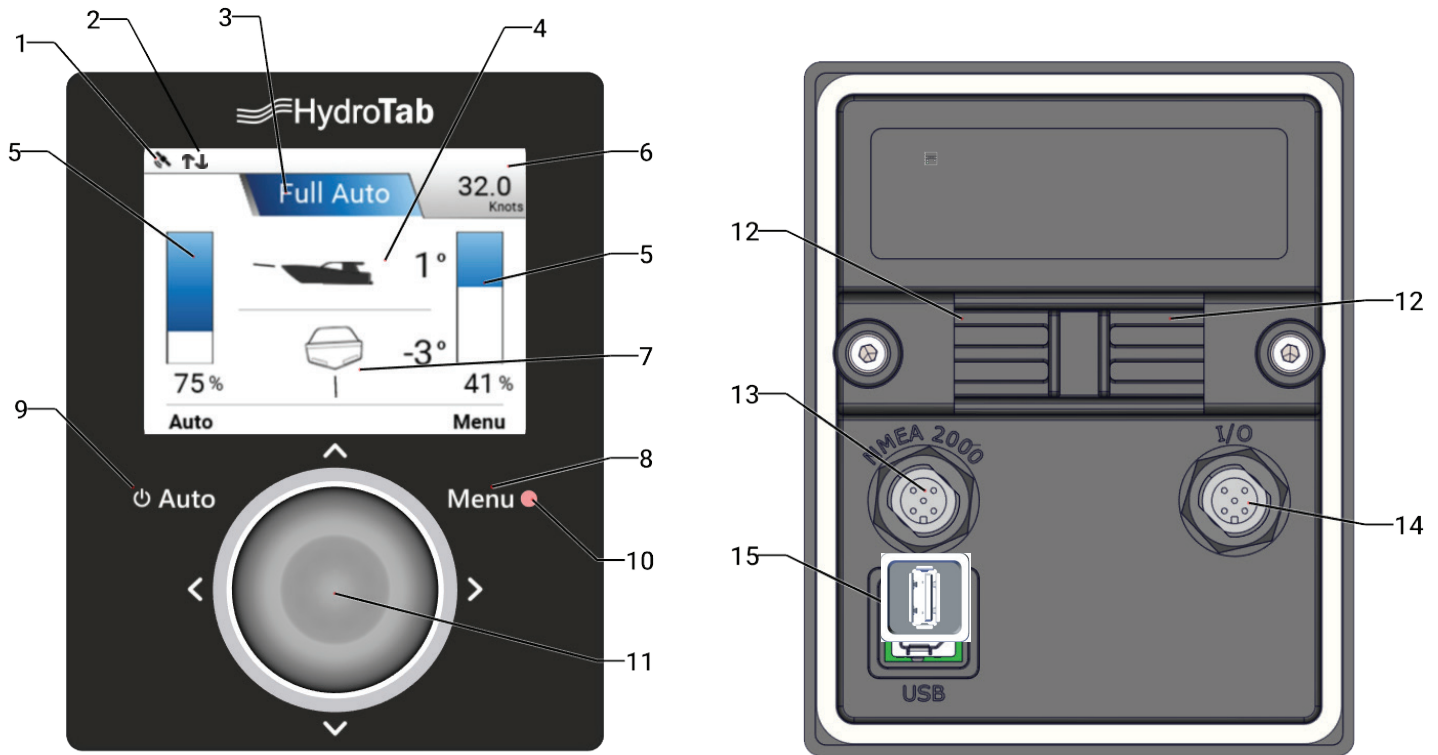
Product Registration

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

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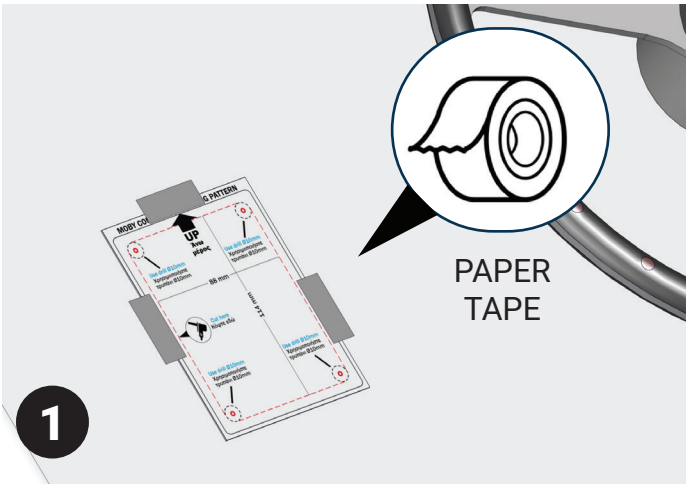
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OVERVIEW

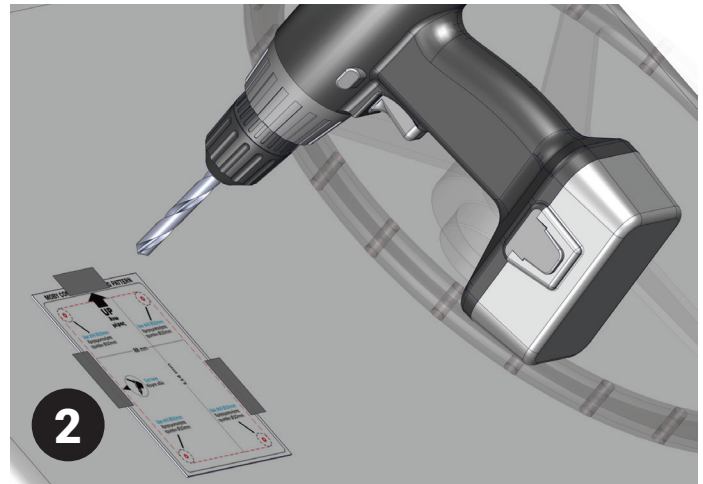


Display Icons		
1	GPS Icon	Indication, whether GPS signal is acquired or not.
2	Air Unit Connection Icon	Indication of Air Unit connection status.
3	System Operation Mode	1. Manual Mode: Manual operation of the interceptors. 2. Auto Pitch: Interceptors position adjusted, according to the current vessel speed. 3. Full Auto: Auto Pitch and Roll operation, for optimal cruising behavior.
4	Pitch Icon	Vessel pitch angle indication
5	Gauges	Interceptors position indication, in %
6	Speed	Current speed indication
7	Roll Icon	Vessel roll angle indication
Menu Navigation & Function Keys		
8	Menu Position	1. Enter System Menu 2. While in System Menu, press to return to home screen.
9	On/Off + Auto Position	1. Hold for 4 secs. to switch on / off the system 2. Press to select system operation mode 3. While in System Menu, press to return to previous screen.
10	Light Sensor	Adjusts the Day / Night mode
11	Main Button	Multi-functional Button
Mounting & Connection		
12	Sliders	Sliding parts for mounting the controller
13	NMEA 2000 Port	Connection to NMEA-2000 Network
14	I/O Port	Power Supply
15	USB Port	USB Port, used for controller firmware update

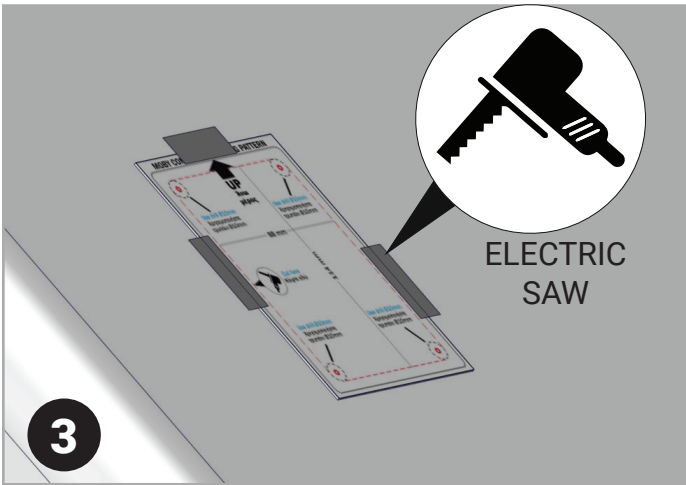
MOUNTING INSTRUCTIONS



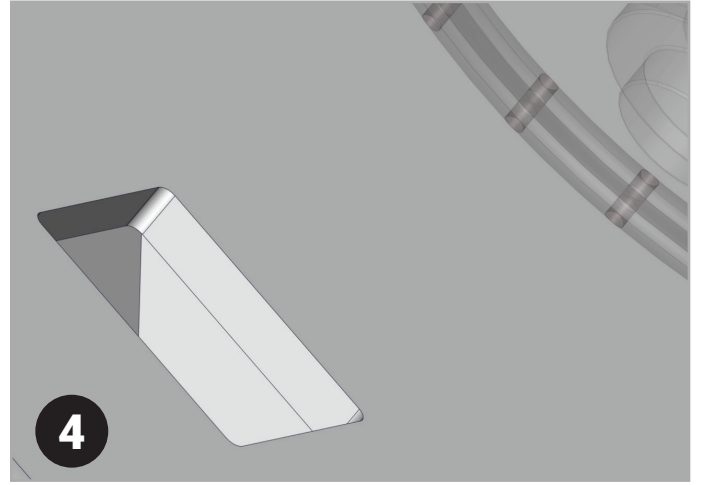
1) Place the “Moby Drilling Pattern” in the desired position, ideally a clean & easy to access area, close to the vessel’s steering wheel.



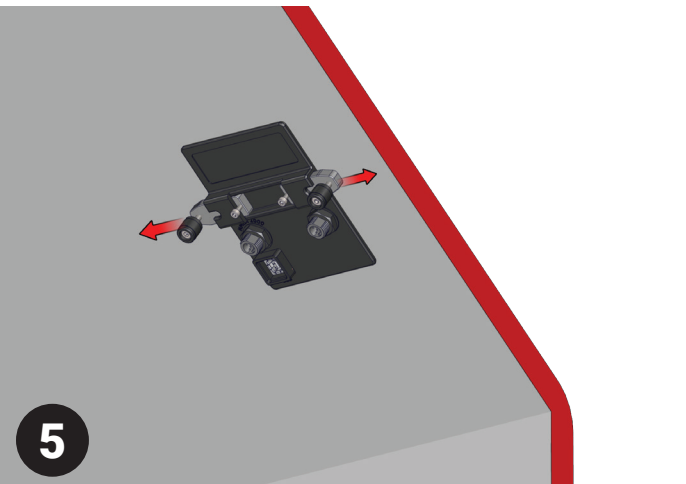
2) Drill the 4 holes, according to the provided drilling pattern, with 10mm bore.



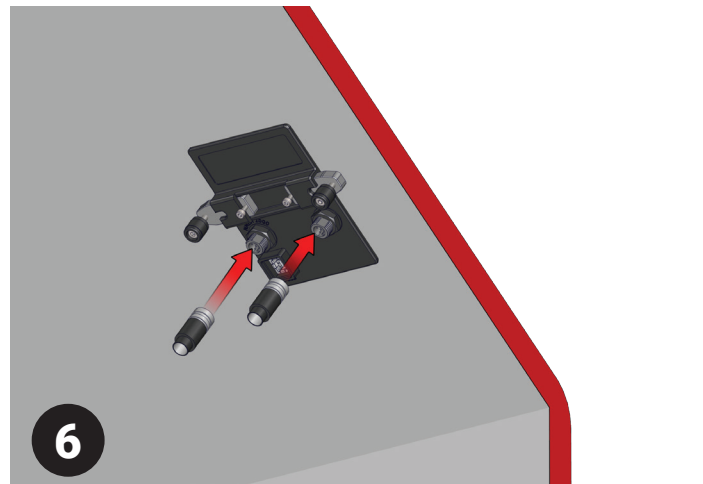
3) Cut the central hole with an electric saw, following the cutting lines in the drilling pattern.



4) Remove the drilling pattern, to reveal the central placement hole.

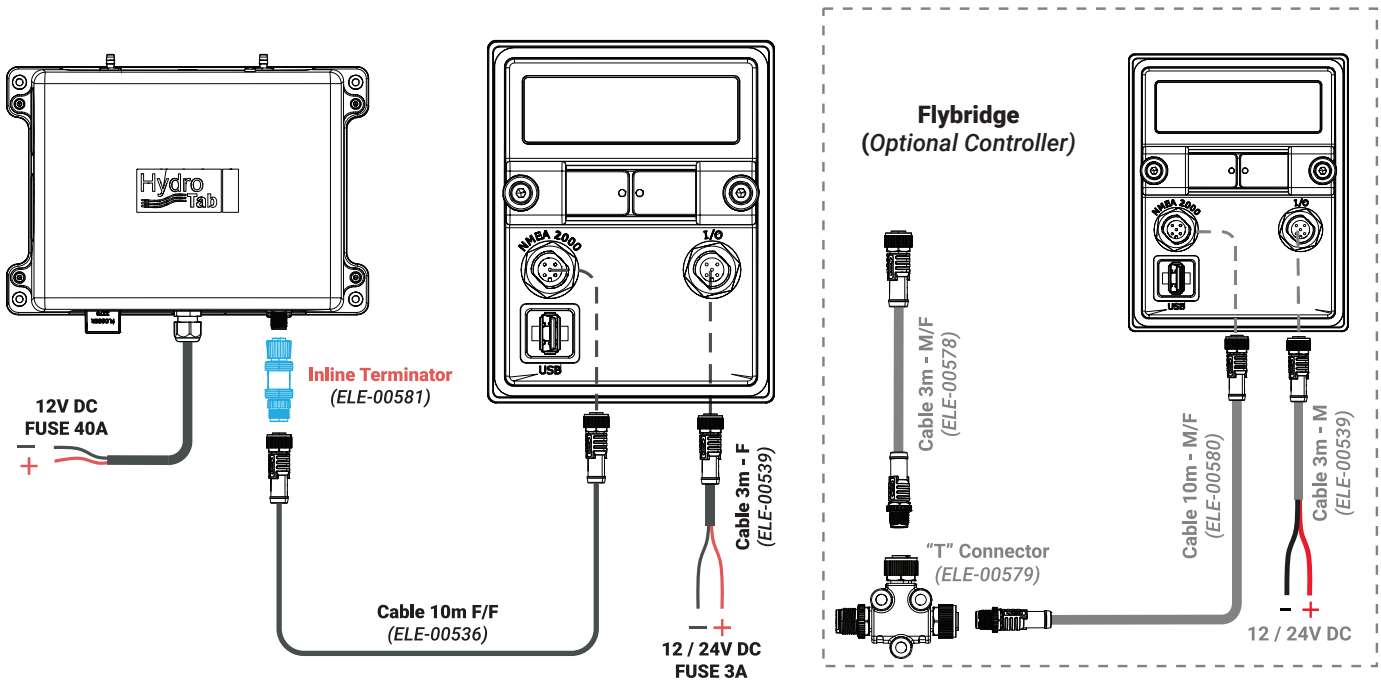


5) Place the MOBY Controller onto position, and mount it from the inside of the cockpit, with the provided screws.



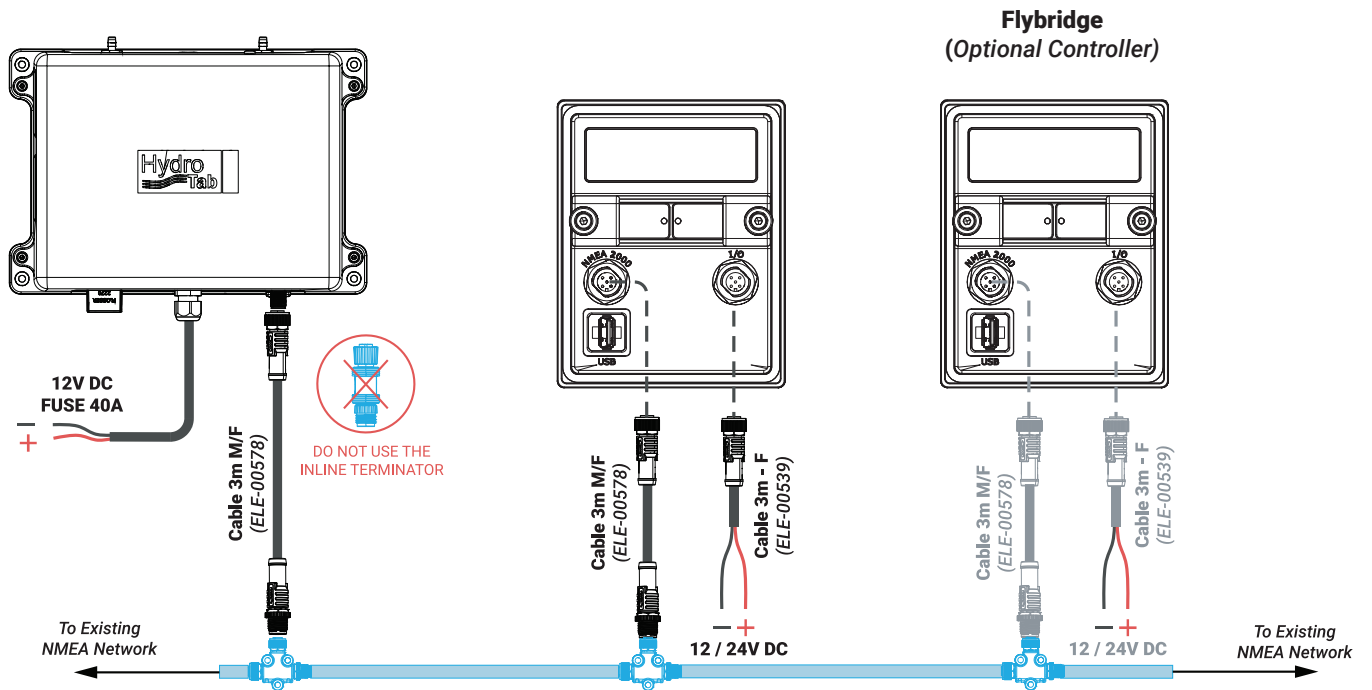
6) Connect the plugs in the 5-pole ports.

DIRECT INSTALLATION DIAGRAM



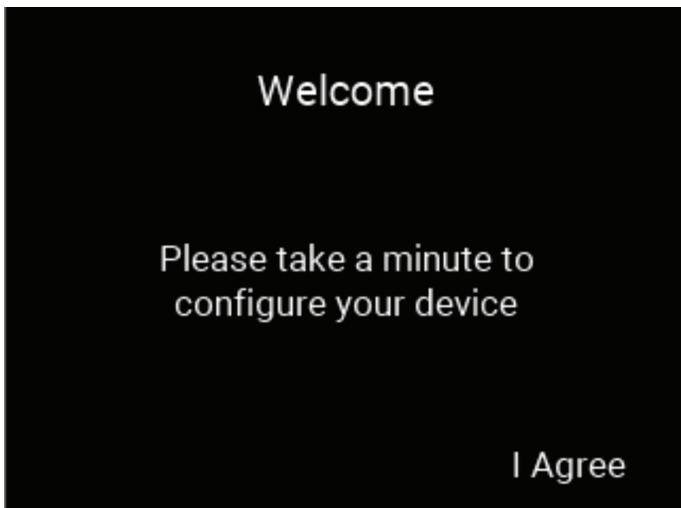
NOTE: In case a third NMEA-2K instrument needs to be added, a proper NMEA Network must be built.

INSTALLATION DIAGRAM ON EXISTING NMEA NETWORK



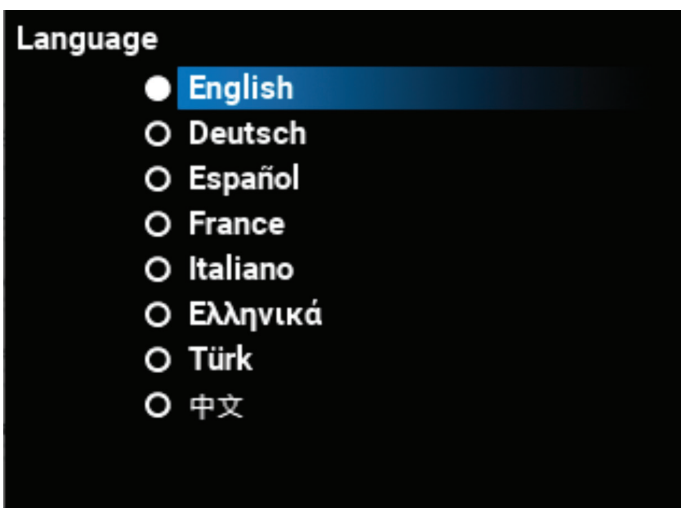
INITIAL CONTROLLER ACTIVATION

To switch on the MOBY Controller, slide the joystick UP LEFT , and hold for 8 seconds





1) Welcome Screen

Slide the joystick UP RIGHT  to proceed.



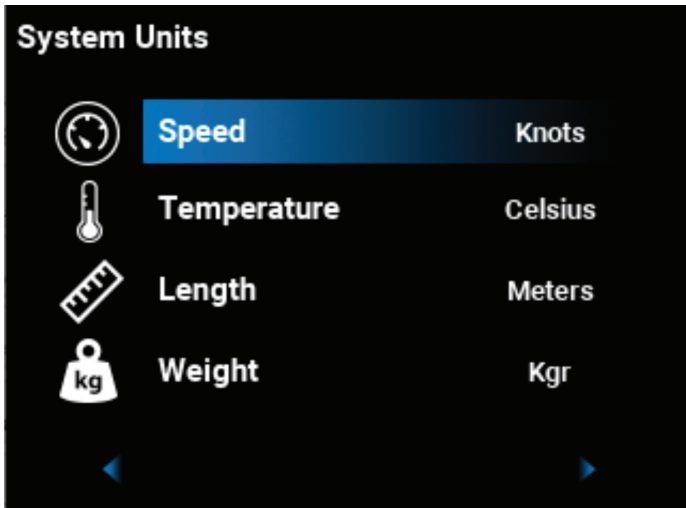
2) Language Selection

Select from 8 different languages (EN, DE, ES, FR, IT, EL, TR, 中文)

Navigate by moving the joystick UP  & DOWN .

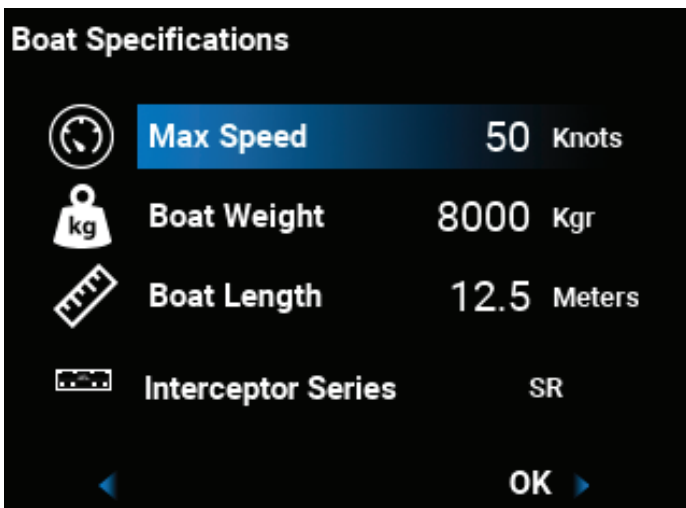
Slide the joystick UP RIGHT  to proceed.

INITIAL CONTROLLER ACTIVATION



3) System Units

Select the desired unit, by sliding the joystick RIGHT →, and confirm by sliding UP RIGHT ↗



4) Boat Specifications

Set the values, by sliding the joystick RIGHT → (increase) & LEFT ← (decrease).

The longer the joystick stays to the right/left, the faster the value changes.

Slide the joystick UP RIGHT ↗ to confirm the selections.



5) Warning Screen

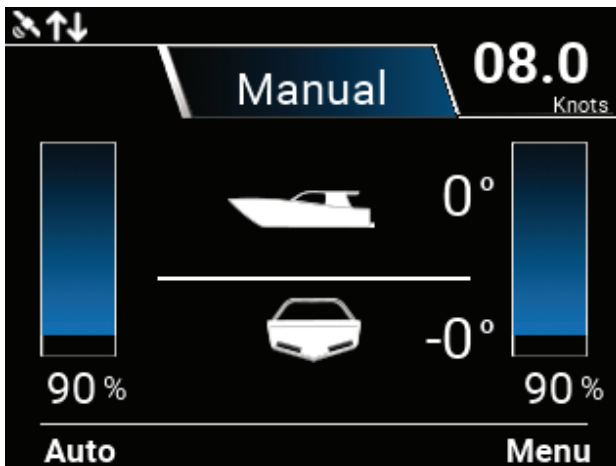
Please read carefully the warning message.

To confirm your agreement, slide the joystick UP RIGHT ↗.

OPERATION MODES

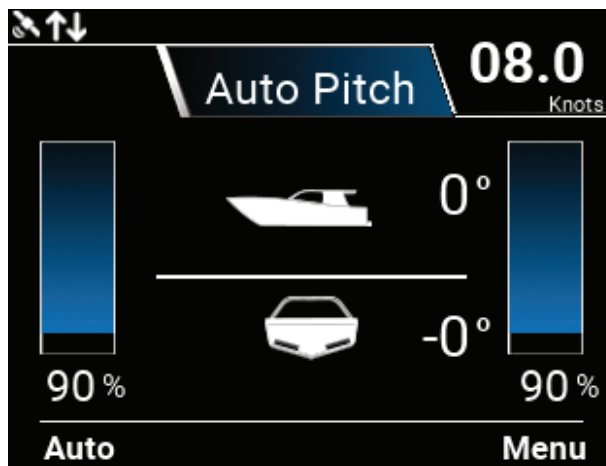
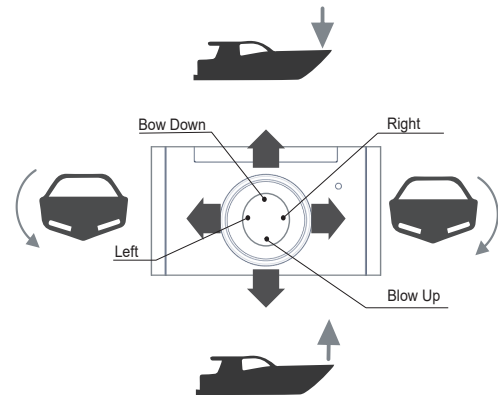
MOBY Controller provides **three (3) modes: 1) Manual - 2) Auto Pitch - 3) Full Auto**

By selecting “Auto” (slide the joystick UP LEFT ↖) you can navigate through the operation modes. By selecting “Menu” (slide the joystick UP RIGHT ↗ and hold for 3 secs.), you can navigate through the MOBY Controller Menu Screens (see Pg. 10)



Manual Mode

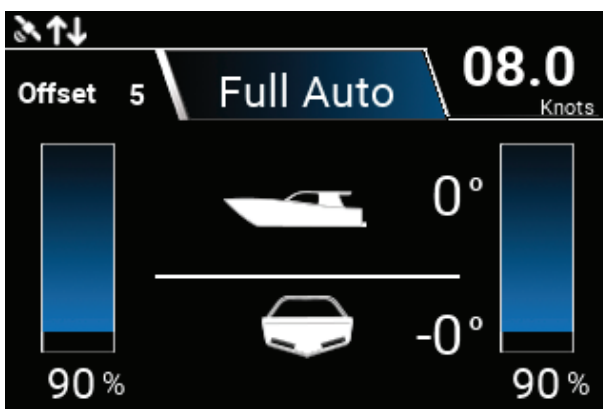
Manual operation of interceptors



Auto Pitch Mode

Corrects angle, according to a pitch profile
(See Paragraph 3.3.2)

NOTE: Auto Modes (Auto Pitch, Full Auto) are available from speed **above 7 knots**.



Full Auto Mode

Corrects the pitch & roll at the same time.
This mode follows a pitch profile, and corrects side inclinations.

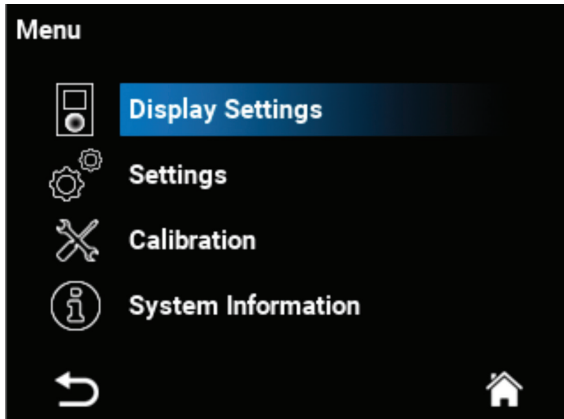
To adjust sensitivity, see Paragraph 2.2.

In Full Auto Mode, you can temporarily offset (increase/decrease) interceptors' deployment, by sliding the joystick UP ↑ or DOWN ↓.

The offset is displayed on the top of the interceptor gauges.




CAUTION!! In case of a sharp and/or urgent maneuver, auto roll mode must be disabled.

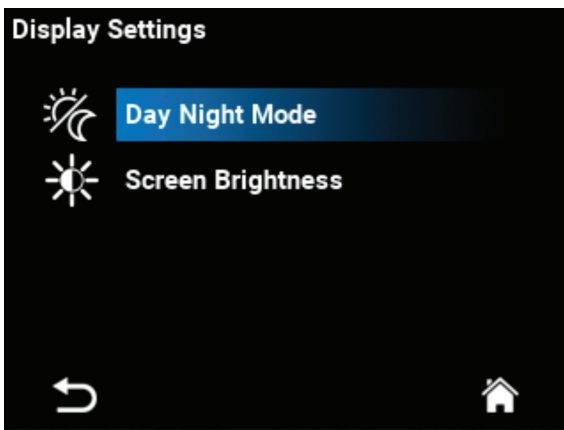
MOBY MENU SCREENS - OVERVIEW



Moby Menu - Main Screen




- 1) *Display Settings*
- 2) *Settings*
- 3) *Calibration*
- 4) *System Information*

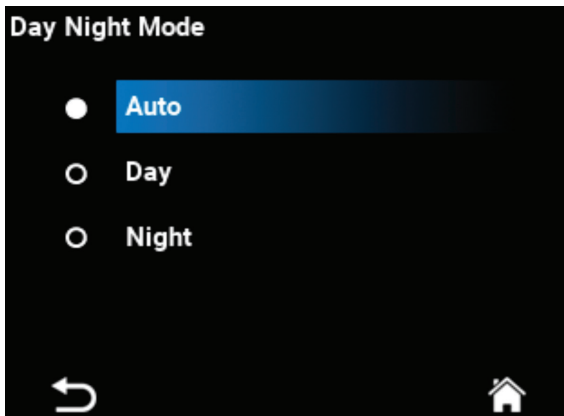
Navigate by sliding the joystick UP  or DOWN . Slide the joystick RIGHT  to enter the submenus.



1. Display Settings

Day Night Mode: Select between *Auto* or *Manual (Day/Night)* selection of the controller's theme.
Screen Brightness: Adjusts screen brightness.




Navigate by sliding the joystick UP  or DOWN . Slide the joystick UP LEFT  to go back.

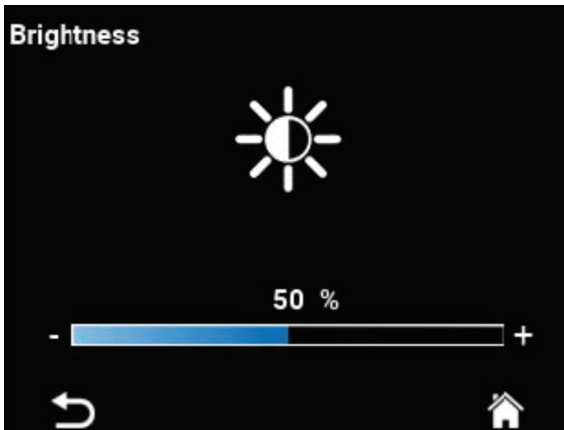


1.1 Day Night Mode



Auto: Auto-switches the mode, with brightness change, according to the photosensor input.
Day: Bright theme for day usage
Night: Dark theme for night usage



NOTE: *In Auto Mode, brightness cannot be changed manually. In Day or Night mode, brightness can be changed manually.*

Navigate by sliding the joystick UP  or DOWN , and slide RIGHT , to confirm your selection.

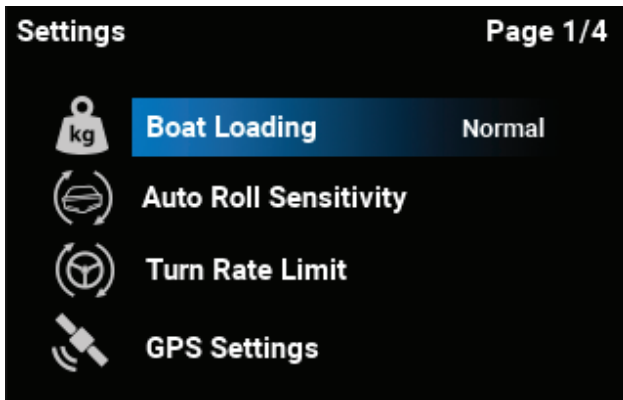


1.2 Brightness

Adjust the screen brightness, according to your preference, by sliding the joystick  or .

Slide the joystick UP LEFT  to go back, or UP RIGHT  to return to Moby Menu Main screen.

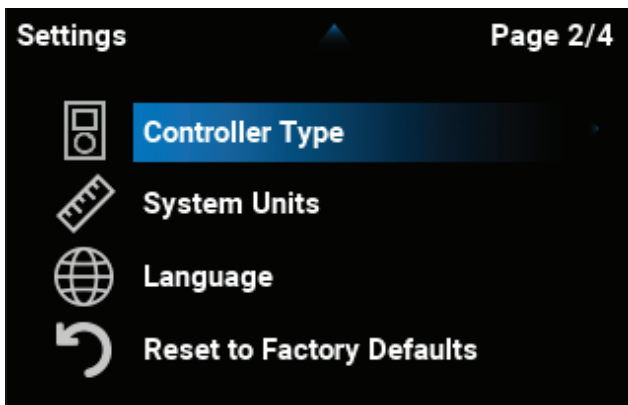
MOBY MENU SCREENS - SETTINGS



2. Settings

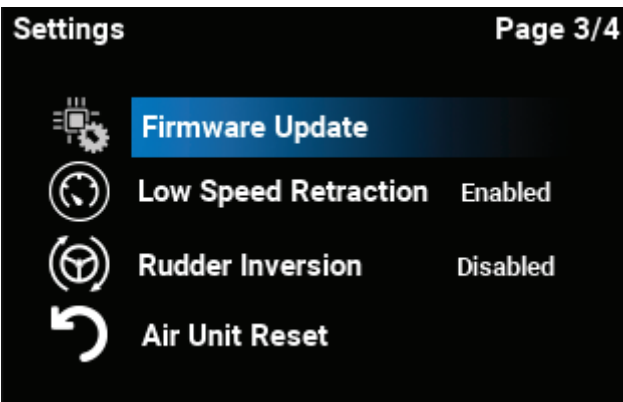
Page 1/4 contains:

- 2.1 Boat Loading
- 2.2 Auto Roll Sensitivity
- 2.3 Turn Rate Limit
- 2.4 GPS Settings



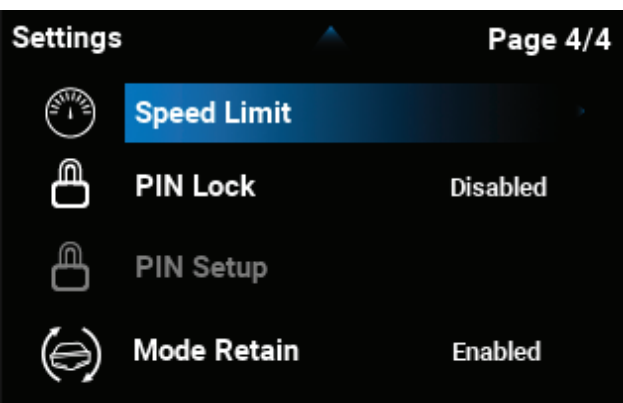
Page 2/4 contains:

- 2.5 Controller Type
- 2.6 System Units
- 2.7 Language
- 2.8 Reset to Factory Defaults



Page 3/4 contains:

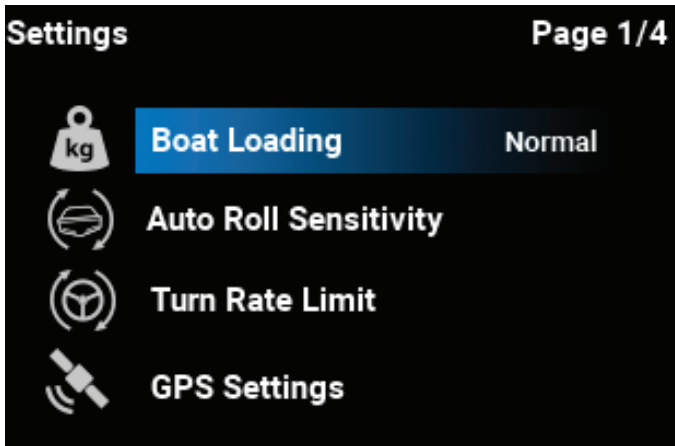
- 2.9 Firmware Update
- 2.10 Low Speed Retraction
- 2.11 Rudder Inversion
- 2.12 Air Unit Reset



Page 4/4 contains:

- 2.13 Speed Limit
- 2.14 PIN Lock
- 2.15 PIN Setup (currently unavailable)
- 2.16 Mode Retain

MOBY MENU SCREENS - SETTINGS



2.1 Boat Loading: Three available options:

Light: When load is below Normal weight

Normal: Standard vessel load

Heavy: When the vessel is fully loaded

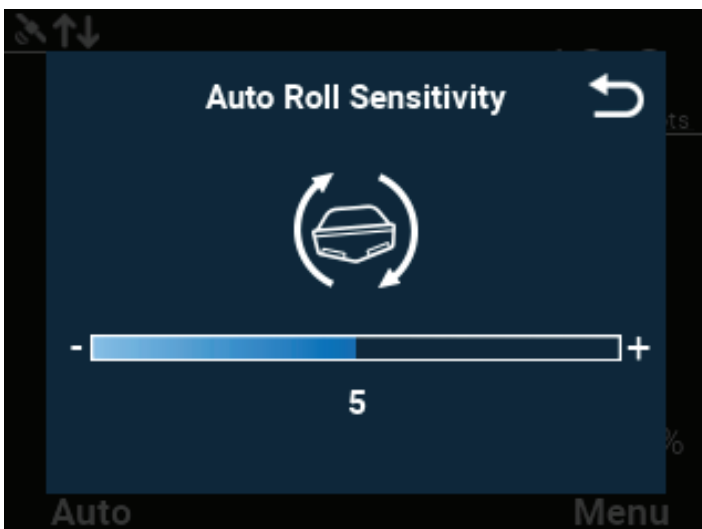
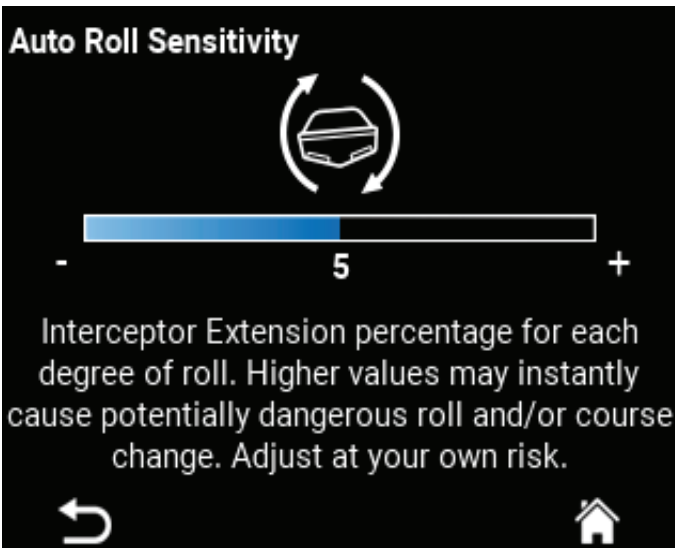
2.2 Auto Roll Sensitivity

Adjusts the interceptors' deployment percentage for each degree of side inclination. The higher the sensitivity, the higher the deployment of the interceptors, for every degree of side inclination.

Adjust the value by sliding the joystick LEFT ← or RIGHT →. Slide UP LEFT ↖ to go back, or UP RIGHT ↗, to go to the main menu screen.

CAUTION!! High Roll Sensitivity may abruptly affect the vessel's course and stability, especially in higher speeds.

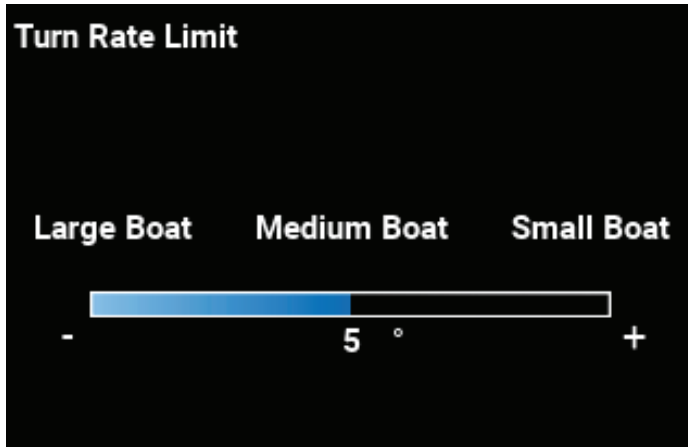
CAUTION!! If you set the sensitivity at Max Value, it may cause overheating of the Air Unit, which will disable the Auto-Roll function, until the system cools down.



NOTE: When in Full Auto Mode (Pg. 9), you can access the Auto Roll Sensitivity setting, by sliding the joystick RIGHT → and holding it for 2 secs, until the pop-up window appears.

Adjust the value by sliding the joystick LEFT ← or RIGHT →. Slide UP RIGHT ↗, to return to the main menu screen.

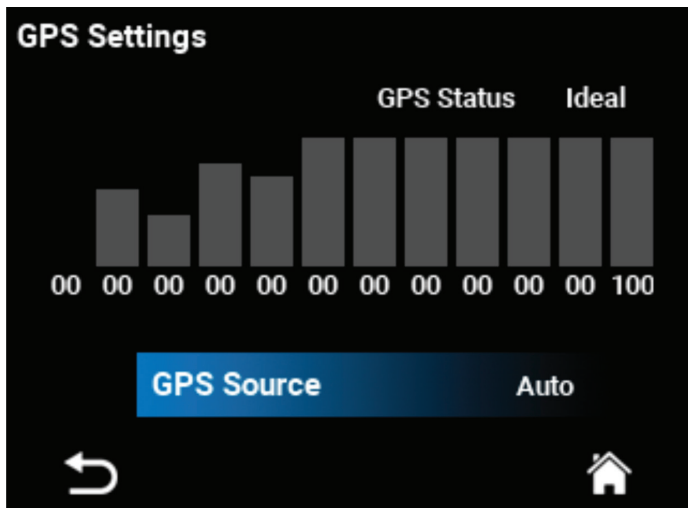
MOBY MENU SCREENS - SETTINGS



2.3 Turn Rate Limit

This is the turn rate, in degrees per second, after which the system will stop using the full auto function, and balance the interceptors, in order not to affect the turn radius of the vessel.

Adjust the value by sliding the joystick LEFT or RIGHT . Slide UP LEFT to go back, or UP RIGHT , to go to the main menu screen.



2.4 GPS Settings

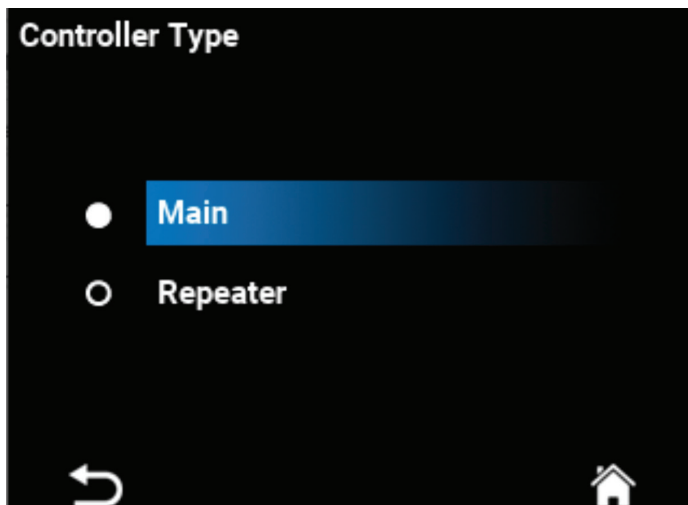
GPS Status: The bars indicate satellite status

GPS Source: Selects GPS source for your interceptor system.

Auto: Automatic selection of the first GPS source from the NMEA-2000 Network.

Internal: Select this option, in order to use the internal receiver with a passive (optionally external) GPS antenna connected.

External: Select this option to use GPS data provided by an external GPS device, through NMEA-2000 network.



2.5 Controller Type

Main: The controller is placed at the helm.

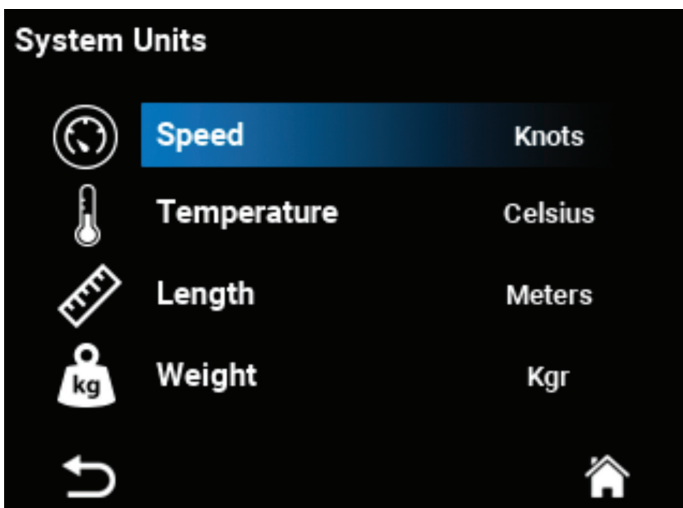
Repeater: The controller is placed at the flybridge station.

PLEASE NOTE: All system settings must be assigned ONLY from Main controller. You cannot use Repeater device to assign or change settings.

MOBY MENU SCREENS - SETTINGS



CAUTION!! If you wish to change the Controller Type from Main to Repeater Mode, all stored settings will be lost.



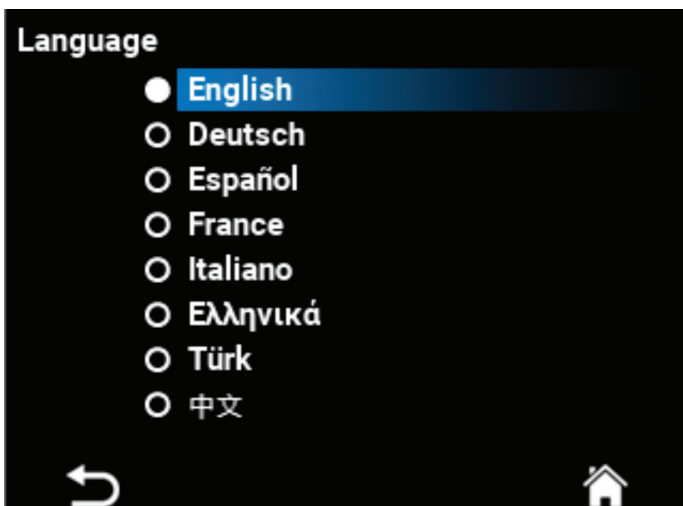
2.6 System Units

Speed: Select between knots, mph, kmh

Temperature: Select between °F & °C

Length: Select between ft & meters

Weight: Select between pounds & kgs



2.7 Language

Select from 8 different languages (EN, DE, ES, FR, IT, EL, TR, 中文).

Navigate by sliding the joystick UP  or DOWN .

Slide the joystick RIGHT , to confirm your selection.

MOBY MENU SCREENS - SETTINGS



2.8 Reset to Factory Defaults

CAUTION: This option will erase all your stored settings!!





2.9 Firmware Update

Initializes Firmware Update Process
(See Pg.23, Paragraph 4)



CAUTION!! Do not start Firmware Update, without having the USB Drive with the firmware file already plugged in the USB Port.



2.9.1 If you wish to proceed to the firmware update, agree by sliding the joystick UP RIGHT , or return, by sliding UP LEFT .

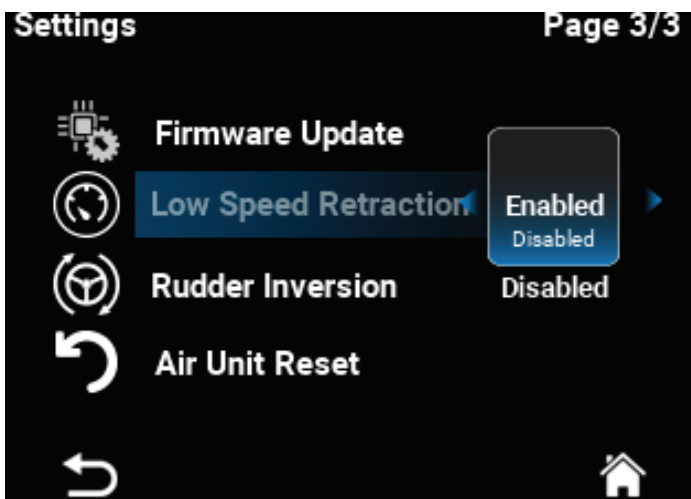
MOBY MENU SCREENS - SETTINGS



2.9.2 Follow the instructions on the screen. Proceed by sliding the joystick UP RIGHT , or else, slide UP LEFT  to return.

For detailed instructions, please refer to the "Update Firmware" section in this manual.

Pg. 23, Paragraph 4

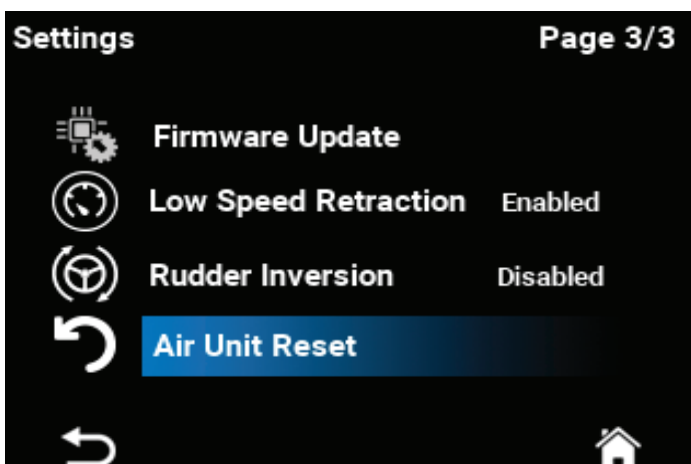


2.10 Low Speed Retraction

Enabled (Default): Retracts interceptors, when speed is lower than 6 knots.

Disabled: Interceptors are retracted manually.

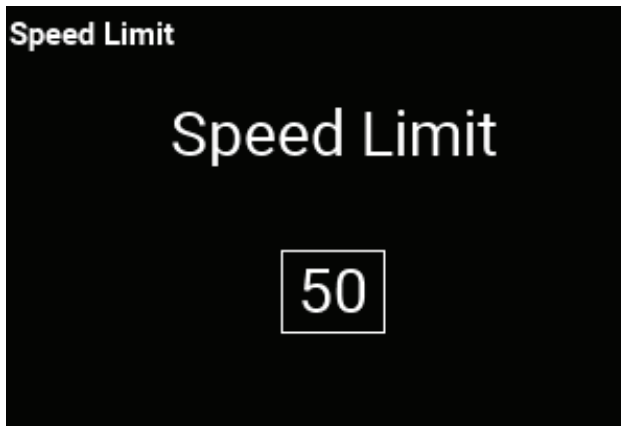
CAUTION!! By selecting "Disabled", the interceptors will remain extended, and they can brake during haul out.



2.11 Air Unit Reset

Resets the Air Unit

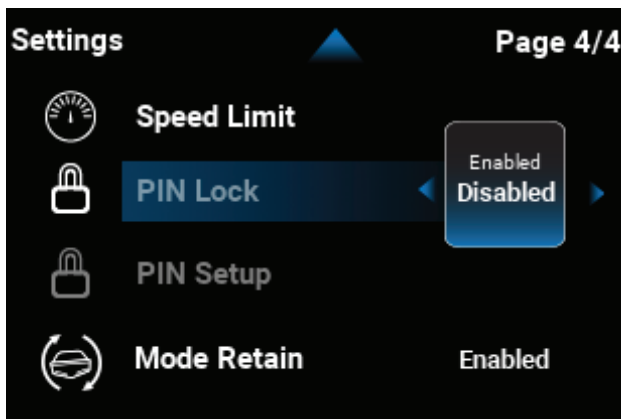
MOBY MENU SCREENS - SETTINGS



2.12 Speed Limit

Defines the maximum speed limit, in which the interceptors will retract.

NOTE: Speed Limit is applied in ALL MODES.



2.13 PIN Lock

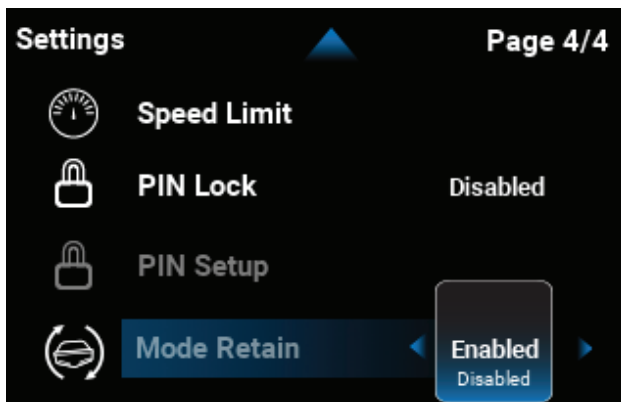
When enabled, it locks the Moby Main Screen.

This feature is useful, in cases that the vessel's operator changes frequently, *i.e. rental boats, military boats, pilot boats etc.*

! PLEASE NOTE: The Moby Controller comes with a default 4-digit PIN Code: 0000

If you wish to *change the PIN Code*, navigate to the **PIN Setup** window on your Moby Controller, and follow the instructions, to set your own personal PIN Code. **Please keep your PIN codes in a safe and accessible place.**

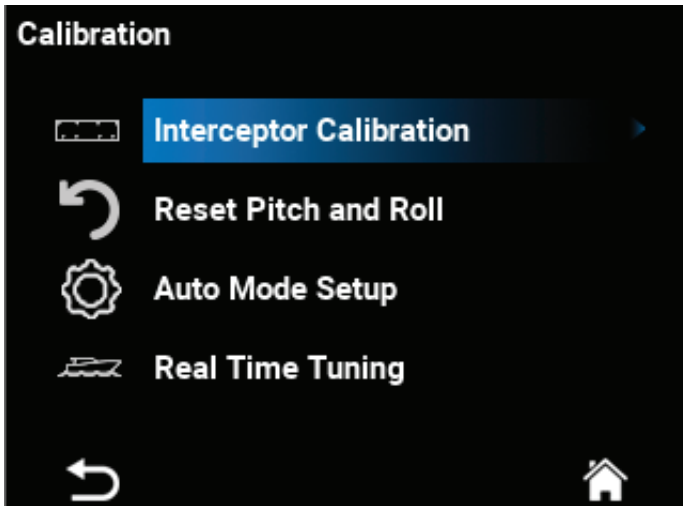
CAUTION: Please be aware that you can set your own personal PIN Code **ONLY ONCE!!**



2.14 Mode Retain

It retains the operation mode, in which the device was set, during its most recent use.

MOBY MENU SCREENS - CALIBRATION

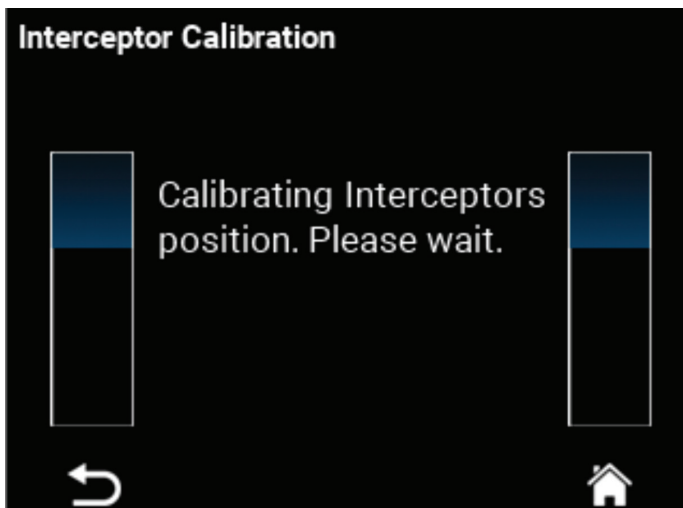


3. Calibration

Main Calibration Screen:

- 3.1 Interceptor Calibration
- 3.2 Reset Pitch and Roll
- 3.3 Auto Mode Setup
- 3.4 Real Time Tuning

Navigate by sliding the joystick UP or DOWN , and select by sliding UP RIGHT .



3.1 Interceptor Calibration

It counterbalances & calibrates the air pressure from both interceptors. It should be executed after the initial installation, or after service works, when any of the interceptors is disconnected from the air grid.

Calibration starts automatically. A pop-up screen appears, when the calibration is finished.

Slide the joystick UP RIGHT to proceed. Slide the joystick UP LEFT to go back, or UP RIGHT , to return to Moby Main Screen.



3.2 Reset Pitch and Roll

It sets roll value to zero, according to the desired vessel position, defined by the user.

Reset must be done, when the boat is in calm sea, with load evenly distributed onboard, so the plane defined by waterline is parallel to the sea plane. A pop-up screen appears, when the reset is complete.

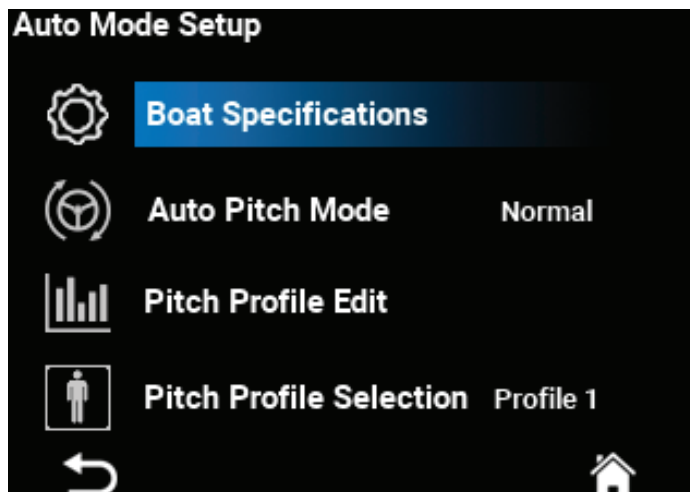
Slide the joystick UP LEFT to go back, or select "Reset" by sliding UP RIGHT .

MOBY MENU SCREENS - CALIBRATION

IMPORTANT TIPS FOR “Reset Pitch And Roll”

If the vessel is slightly unbalanced (due to uneven weight distribution), follow the procedure below, for more accurate stability during **Full Auto Mode**:

In calm sea, go to Manual Mode, adjust your vessel’s position, in order to be aligned with the horizon, and then select **Reset Pitch and Roll**. This procedure will make your interceptors extend in an uneven position, in order to maintain the vessel’s balance during **Full Auto Mode**.



3.3 Auto Mode Setup

3.3.1 Boat Specifications

Imports vessel specifications (*Max Speed, Weight, Length*) or resets to default specs.

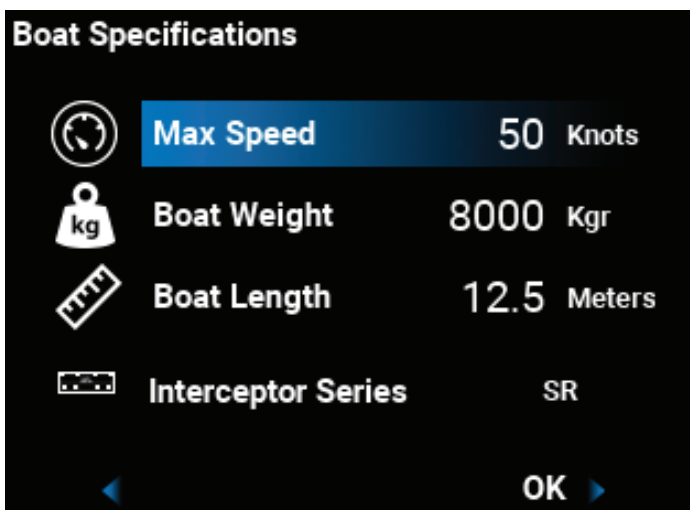
3.3.2 Auto Pitch Mode

3.3.3 Pitch Profile Edit

3.3.4 Pitch Profile Selection

Navigate by sliding the joystick UP or DOWN , and select by sliding UP RIGHT .

Go back by sliding UP LEFT or return to main screen by sliding UP RIGHT .

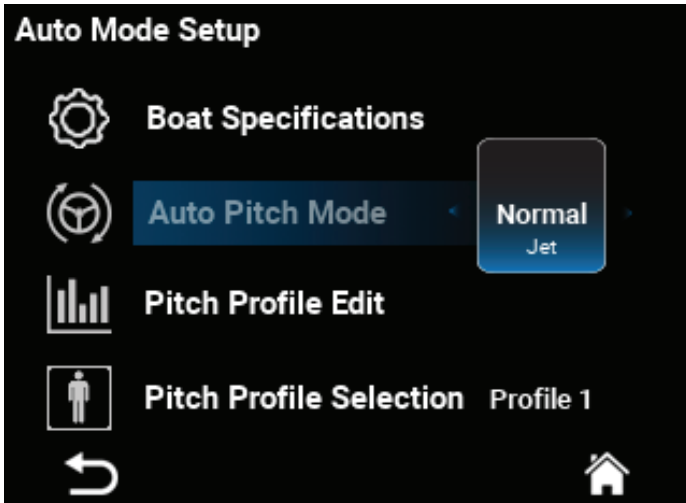


3.3.1 Boat Specifications

Set the values, by sliding the joystick RIGHT (*increase*) & LEFT (*decrease*).

The longer the joystick stays to the right/left, the faster the value changes.

MOBY MENU SCREENS - CALIBRATION

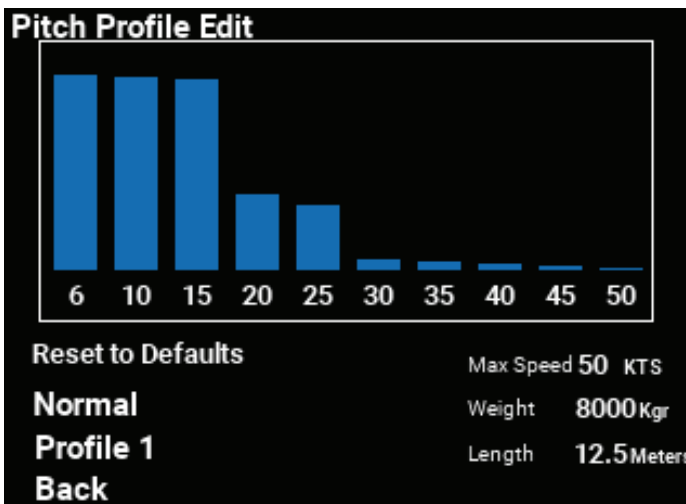


3.3.2 Auto Pitch Mode

Normal (Default): The interceptor will be automatically adjusted, according to the pitch profile.

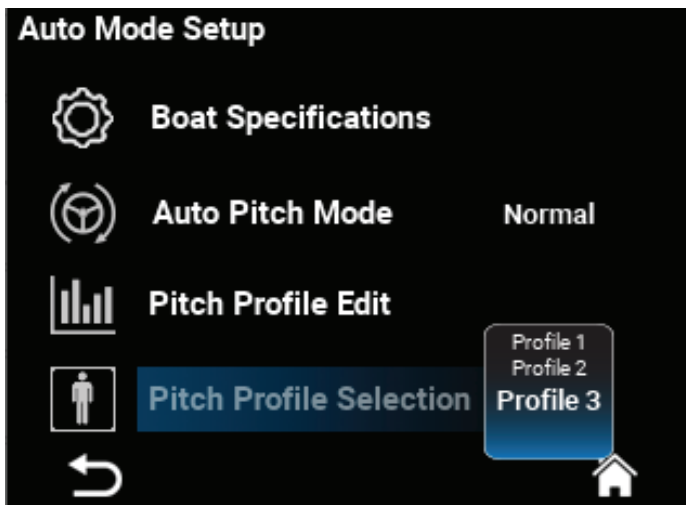
Jet Mode: Instantly affects the boat course, by sliding the joystick RIGHT ← or LEFT →. When not, the interceptors will return to the closest pitch profile stored value.

Recommended for test boats.



3.3.3 Pitch Profile Edit

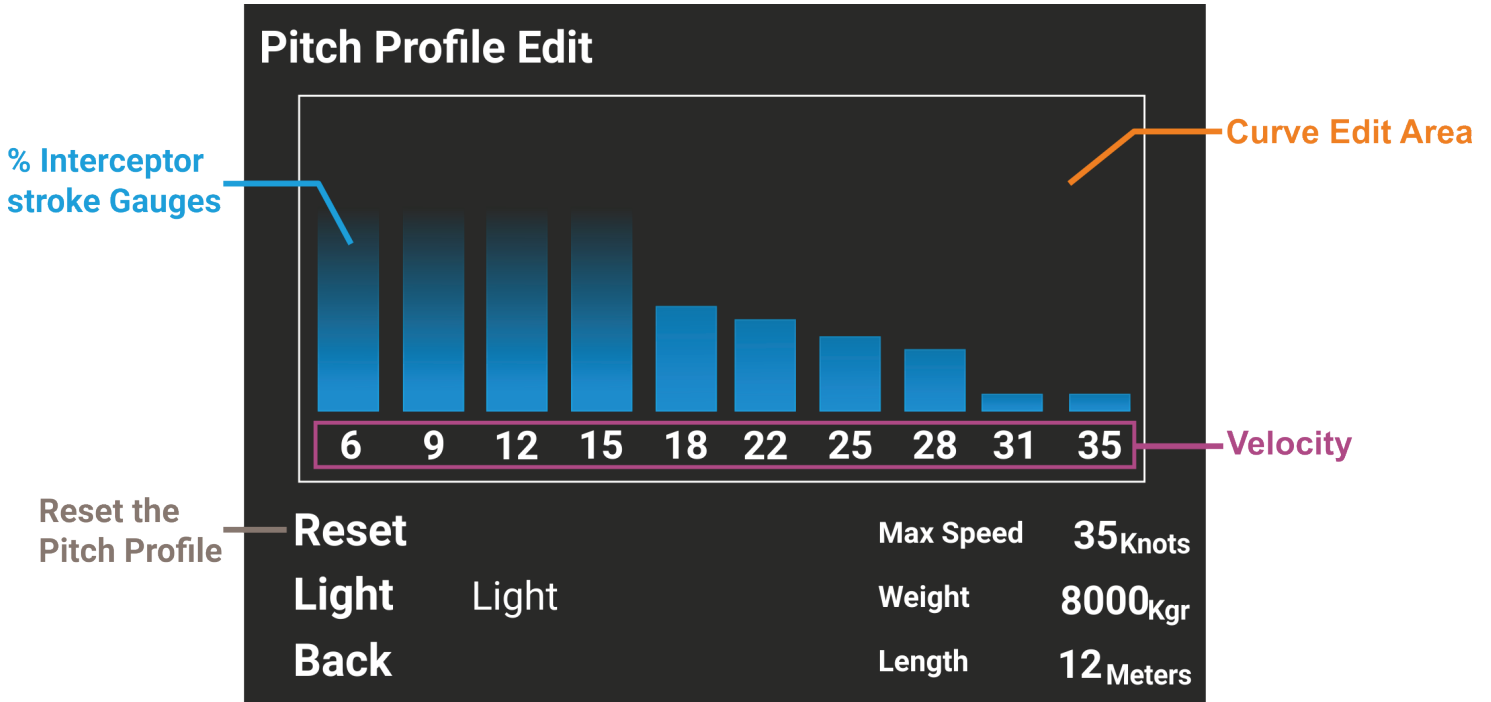
Please Refer to Pg. 21



3.3.4 Pitch Profile Selection:

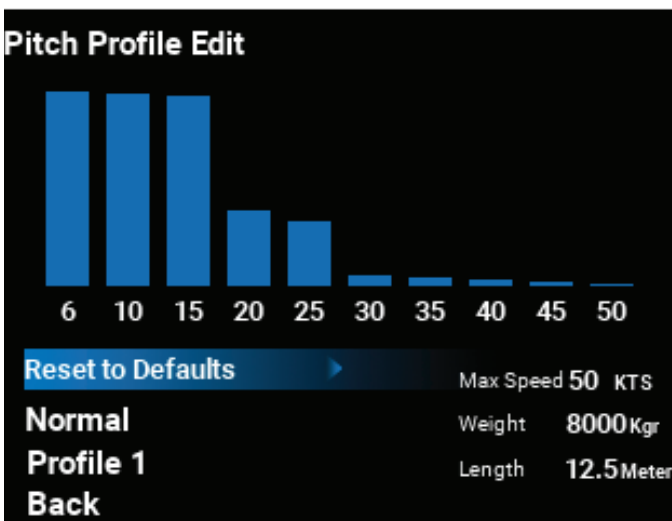
Select your desired profile.

MOBY MENU SCREENS - PITCH PROFILE



3.3.3 (continued): Each column in the **Curve Edit Area** shows the percentage of the **Interceptor Stroke (Deployment)** according to different **Speeds (Velocity)**. There are 10 segments of total speed range, where the operator can set different amount of interceptors' deployment.

Slide the joystick UP RIGHT to enter or leave the curve edit area.



3.3.3 Reset Profile

Reset to Defaults: (for all Profiles): Initializes the values, according to a selected vessel's specs.

Save Temporary Values: Stores the temporary (*Offset*) values as default values.

Reset Offset: Deletes the temporary (*offset*) values.

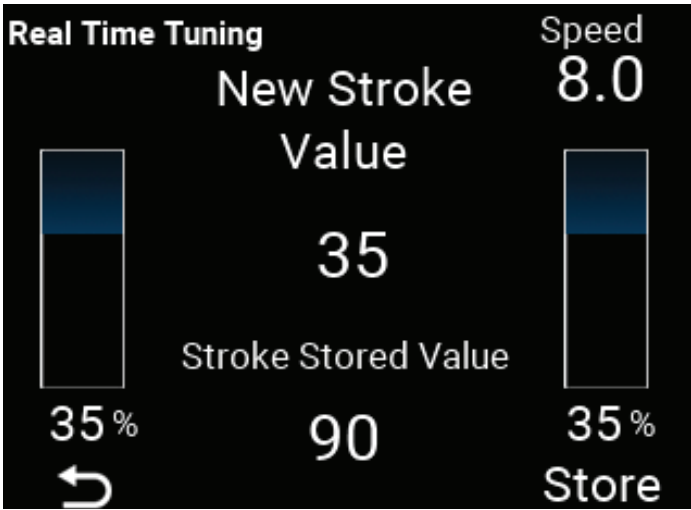
Slide joystick RIGHT to select, and UP RIGHT to confirm your choice.

Heavy / Light / Normal: Slide UP RIGHT to select between three modes, according to the vessel's load.

Profile 1 / 2 / 3: Slide UP RIGHT to choose, between three profiles

Back: Slide UP RIGHT to return to Calibration menu.

MOBY MENU SCREENS - PITCH PROFILE



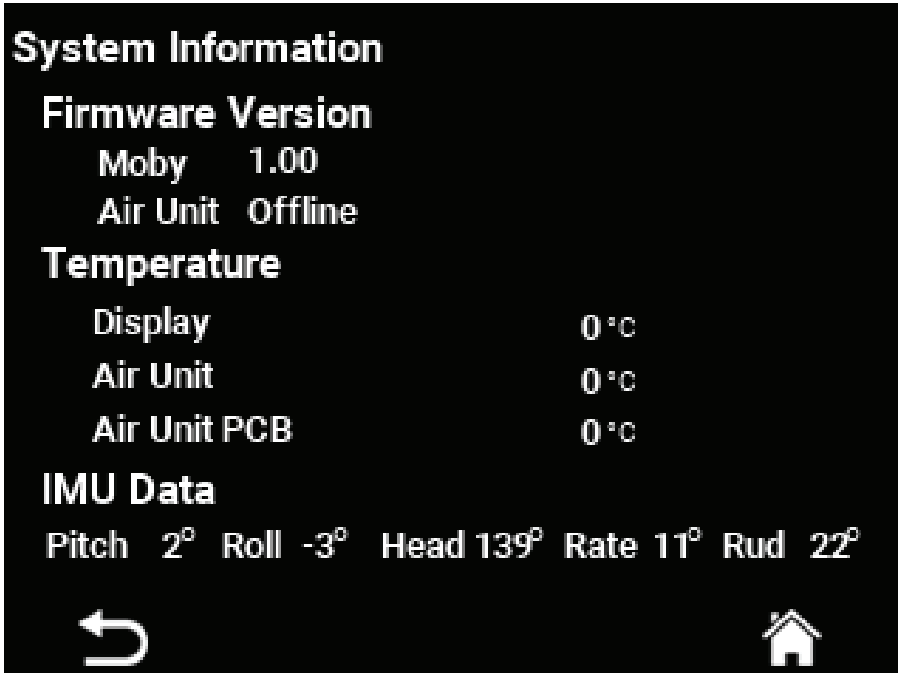
3.4 Real Time Tuning

Use realtime tuning to fine tune your pitch.

During sea trial, you can choose this function, which allows to fine tune interceptors' position, in real time with different speeds.

The selected values are stored in the nearest speed value of pitch profile curve.

MOBY MENU SCREENS - SYSTEM INFORMATION



Displays useful information about the Moby Controller & the Air Unit.

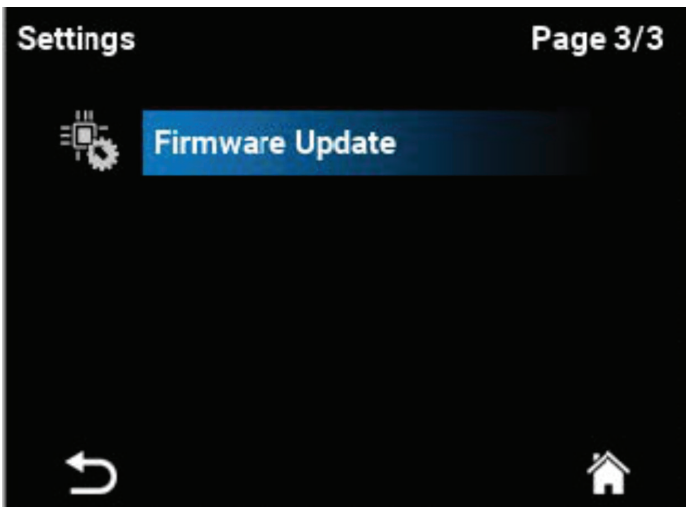
MOBY FIRMWARE UPDATE

To update the firmware on your MOBY Controller, you will need:

- 1) Latest Firmware. You can find & download the latest firmware from the following link:
<https://www.hydrotab.gr/downloads/#firmwareMoby>
- 2) A USB Drive. HydroTab strongly recommends formatting the USB Drive, before installing the new drivers.
- 3) The provided USB-A (Female) to USB-B (Male) Adapter.

BEFORE THE UPDATE



1. Do NOT disconnect the power cable, during the update process.
2. The USB Drive must contain the correct firmware version & it should be THE ONLY FILE inside it.
3. Do NOT disconnect the USB Drive, during the update process.
4. If there are Main & Repeater Controllers, they both need to be updated separately.



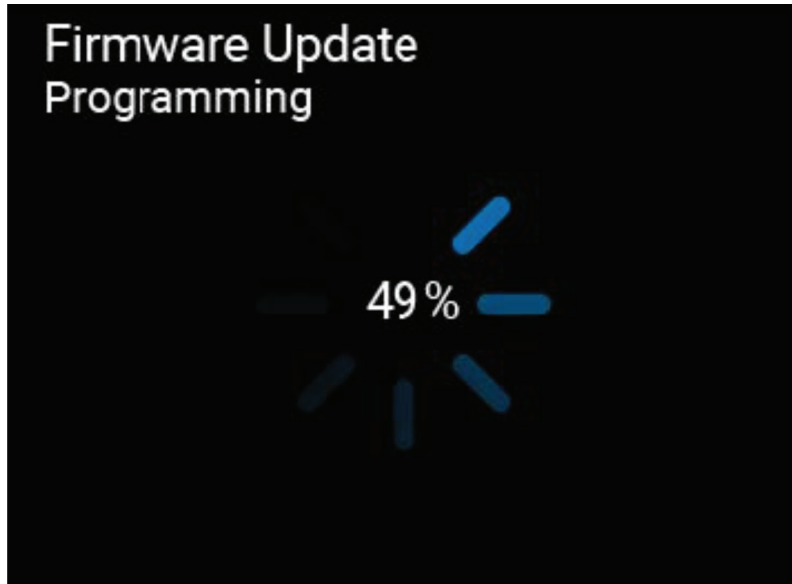
4.1 Go to the Settings Page 3 & select Firmware Update.



4.2 Read the instructions on the screen carefully.

Slide the joystick UP RIGHT  to proceed, or else slide UP LEFT  to go back to the menu screen.

MOBY FIRMWARE UPDATE



4.3 Wait until the update process is completed.

After the end of update process, your device will restart, and the new firmware will be installed.

IMPORTANT NOTES

- 1) If the message "**Verify Error**" appears, something went wrong. Restart your controller, by turning the power off and on again, and repeat the whole process.
- 2) If the message "**Flash Config. Error**" or "**Disk Error**" appears, please use a different USB drive.
- 3) If the message "**File Not Found**" appears, that means the USB Drive is empty. Make sure the USB Drive contains the correct file.
- 4) If the message "**Wrong File Format**" appears, that means the file is not correct, corrupted or not properly installed. Please format the USB drive, re-download and reinstall. Do NOT to remove the USB Drive, before the process is complete.

MOBY REPEATER MODE

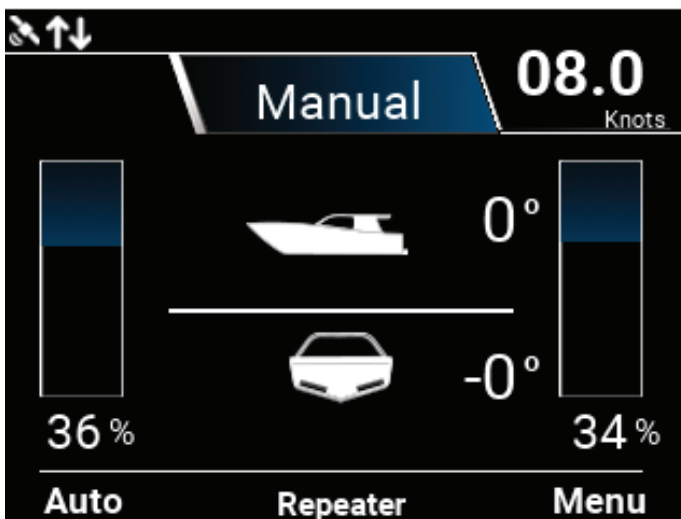
MOBY Controller can be used, either as **Main Device** or as **Repeater Device**.

As **Main Device**, it provides full control of all the available operations of your controller. A Network in a vessel can have many devices communicating simultaneously, but only one of them act as a Main Device.

As **Repeater Device**, it allows to operate only the basic functions of the interceptors, for example their manual control, and select between the controller's operating modes.

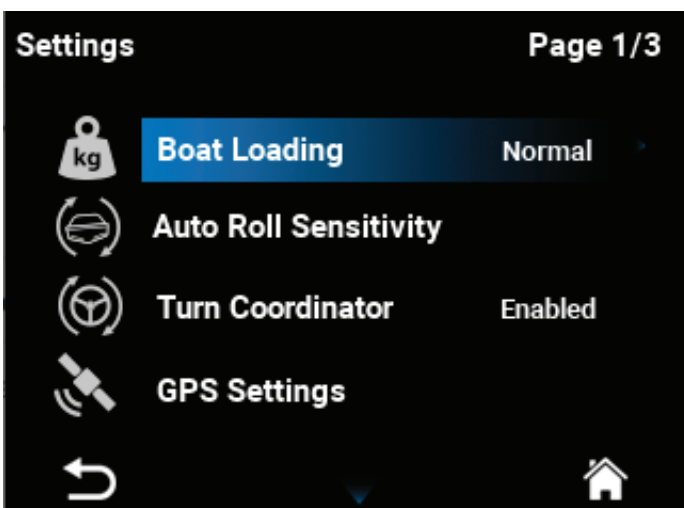
If you wish to change modes of your devices, first switch the one on Main Mode to Repeater Mode, and then proceed with the rest of devices.

CAUTION!! Changing your controller mode from Main Mode to Repeater Mode will result in deleting all the previously stored settings.



5.1 Repeater Mode Main Screen

The "Repeater" indication is located on the bottom of the main screen.

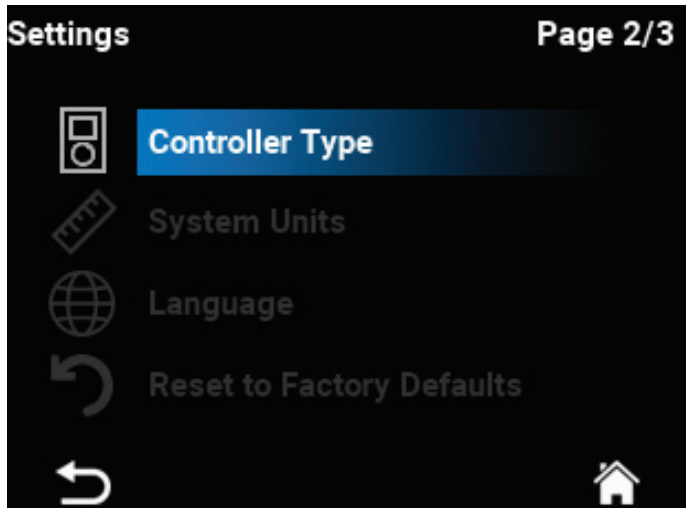


5.2 Repeater Mode Settings (1/3)

Settings adjustment is unavailable in Repeater Mode.

You must gain access to the vessel's main controller, in order to change settings.

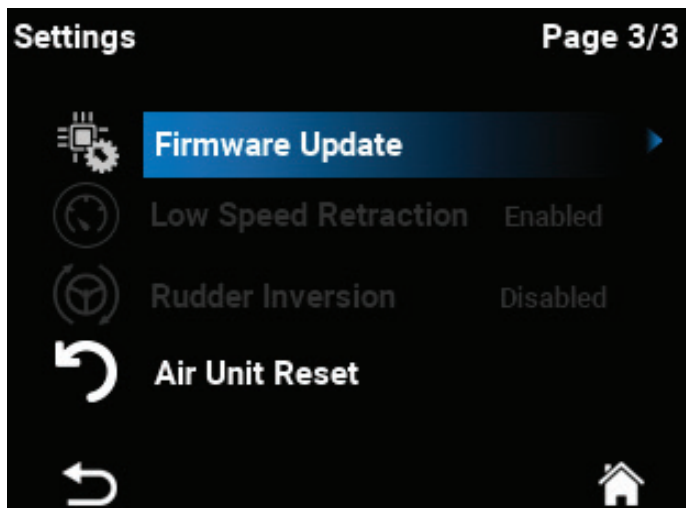
MOBY REPEATER MODE



5.3 Repeater Mode Settings (2/3)

The only available setting is the Controller Type (*Main, Repeater*).

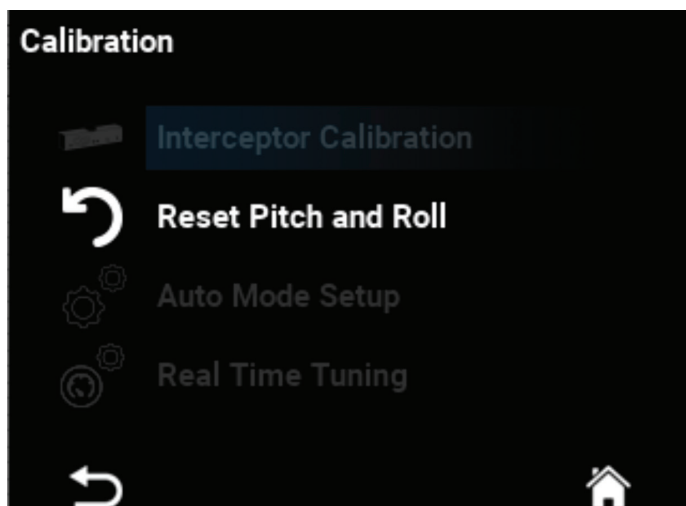
If it is necessary to switch modes on installed controllers, first switch the Main Mode Controller to Repeater, and then the Repeater one to Main.



5.4 Repeater Mode Settings (3/3)

Slide RIGHT → to start the Firmware Update process.

For detailed instructions, please refer to Pg.26 - Paragraph 6: Moby Firmware Update



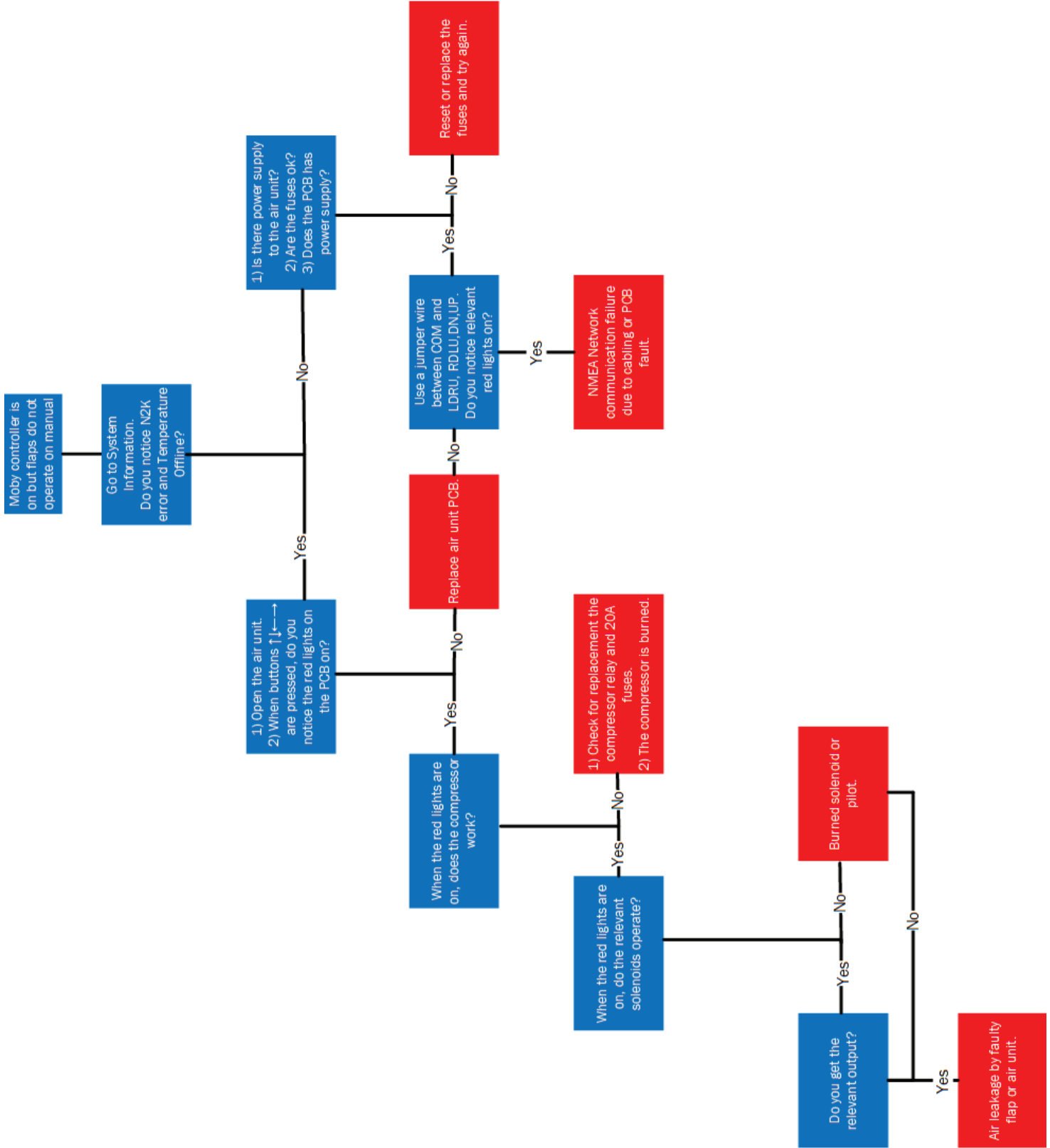
5.3 Reset Repeater's Pitch and Roll

Adjusts the gyroscope angles, according to the controller's placement in the vessel's panel.

Reset must be done, when the boat is in calm sea and load is evenly distributed onboard, so that the plane defined by waterline is parallel to sea plane. A pop-up message screen appears, when the reset process is completed.

Proceed, by sliding the joystick UP RIGHT ↗, or go back by sliding the joystick UP LEFT ↖.

TROUBLESHOOTING





WARRANTY CONDITIONS

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

SR Series Interceptor Units (**NOT complete systems**) are covered by a 2-year Warranty.

Recoil springs, electrical/electronic parts & devices are covered by a 2-year warranty.

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

HydroTab's warranty only covers the costs of repair or spare part replacement.

It is the sole responsibility of the buyer to choose the correct system, and even after HydroTab's suggestion for a system, the overall responsibility lies to the end buyer.

Provided that the system is installed, according to the provided installation manual, and no damage has been caused, due to improper handling or practices, HydroTab will replace any defective or improperly manufactured parts, within the applicable warranty period.

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

HydroTab will decide if the company 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 period is two (2) years, starting from the date the product ships out from HydroTab's premises.

Extended limited warranty period 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 an authorized Hydrotab dealer.*

The extended limited warranty period is valid for three (3) years from the shipping date, provided that the customer has downloaded, filled & submitted the online registration form within one month (30 days) from the purchase, from the following URL:

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

In case the dealer sells separately Interceptor Units, Air Units and/or Controller Units, that comprise a full system, which is not initially sold (as a complete system) by HydroTab, the dealer has the responsibility to provide the individual Serial Numbers for the Interceptors, Air Units and Controllers, as well as to guide the end user for their proper registration, in order for the extended warranty to be valid.

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

For any service and/or part replacement during warranty period, it is necessary to provide the original invoice.

For the replacement of any part of the system (Interceptors, Air Units, Controllers etc.) under warranty, the replaced parts must be returned to HydroTab Marine Engineering for inspection, otherwise the 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 complete HydroTab system.

What the warranty does NOT cover:

a) *Damage caused by the lack or non-replacement of worn anodes (applies to BT, FW, TS Interceptor Series).*

b) *Damage caused by improper installation and/or use not consistent with the manual.*

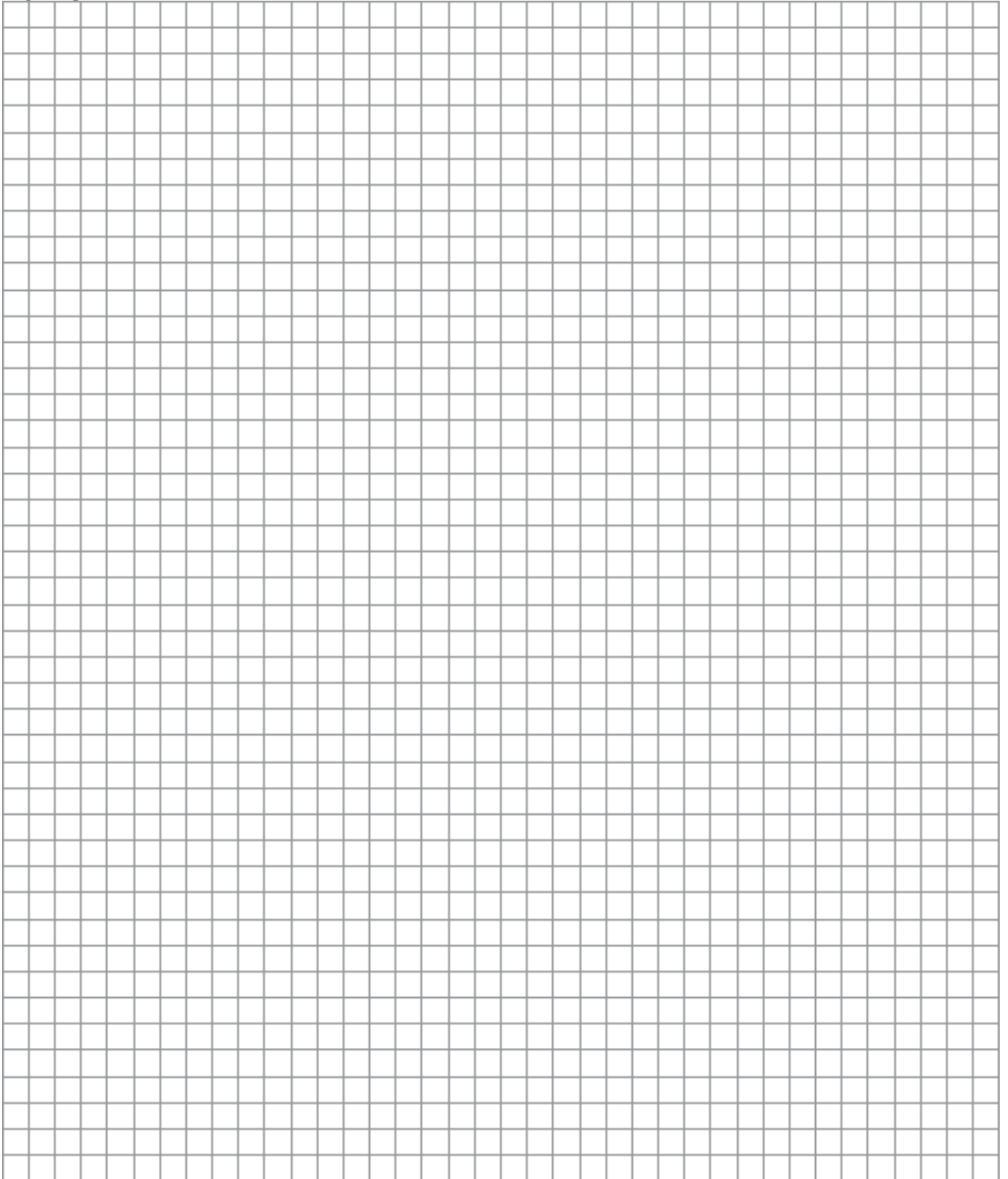
c) *Damage with external visible deformation of the product caused by misuse of the user or other external causes.*

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

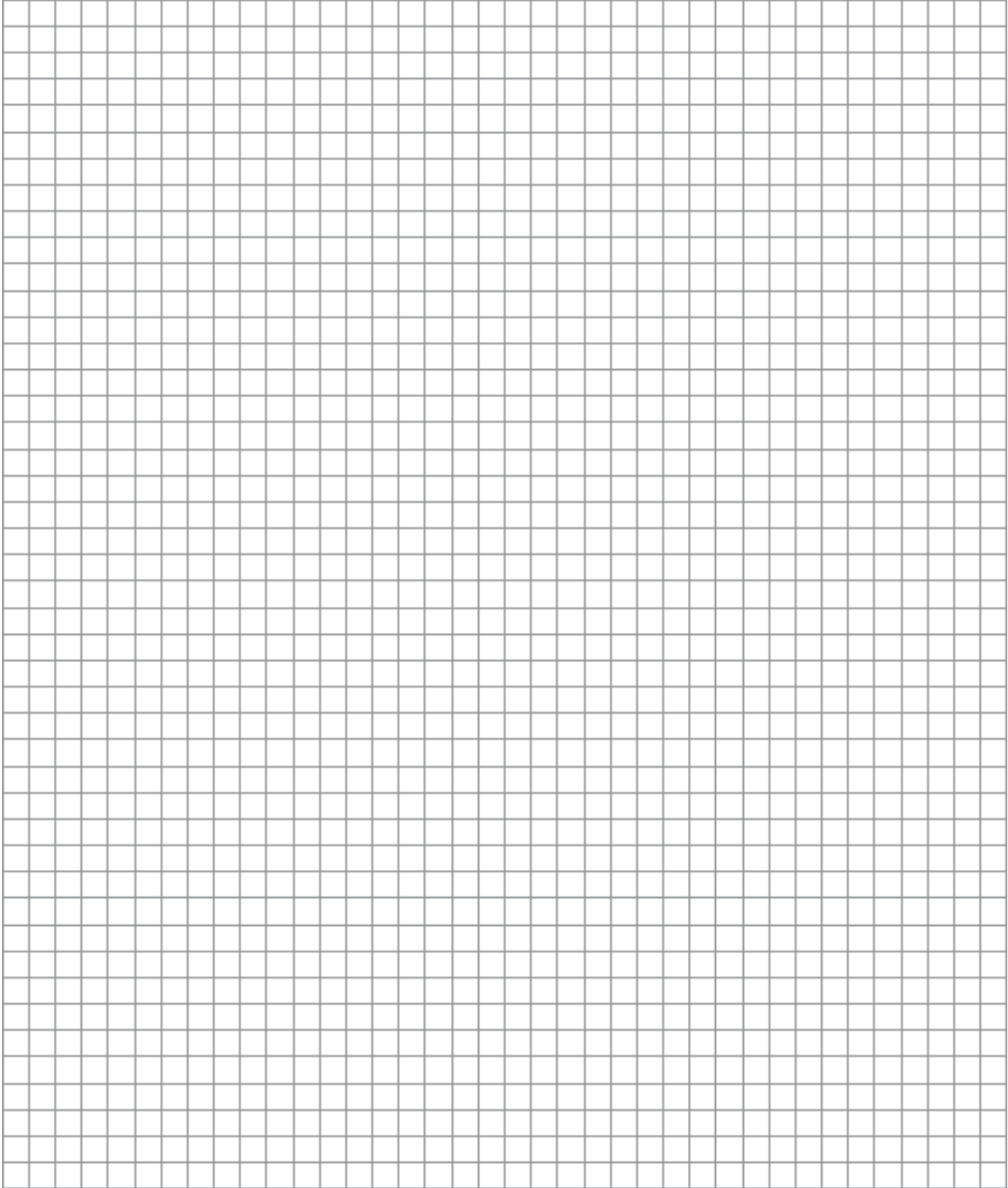
e) *Conversions or modifications made after the initial sale.*

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 & hauling, costs, loss of income, time, property, and/or 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.

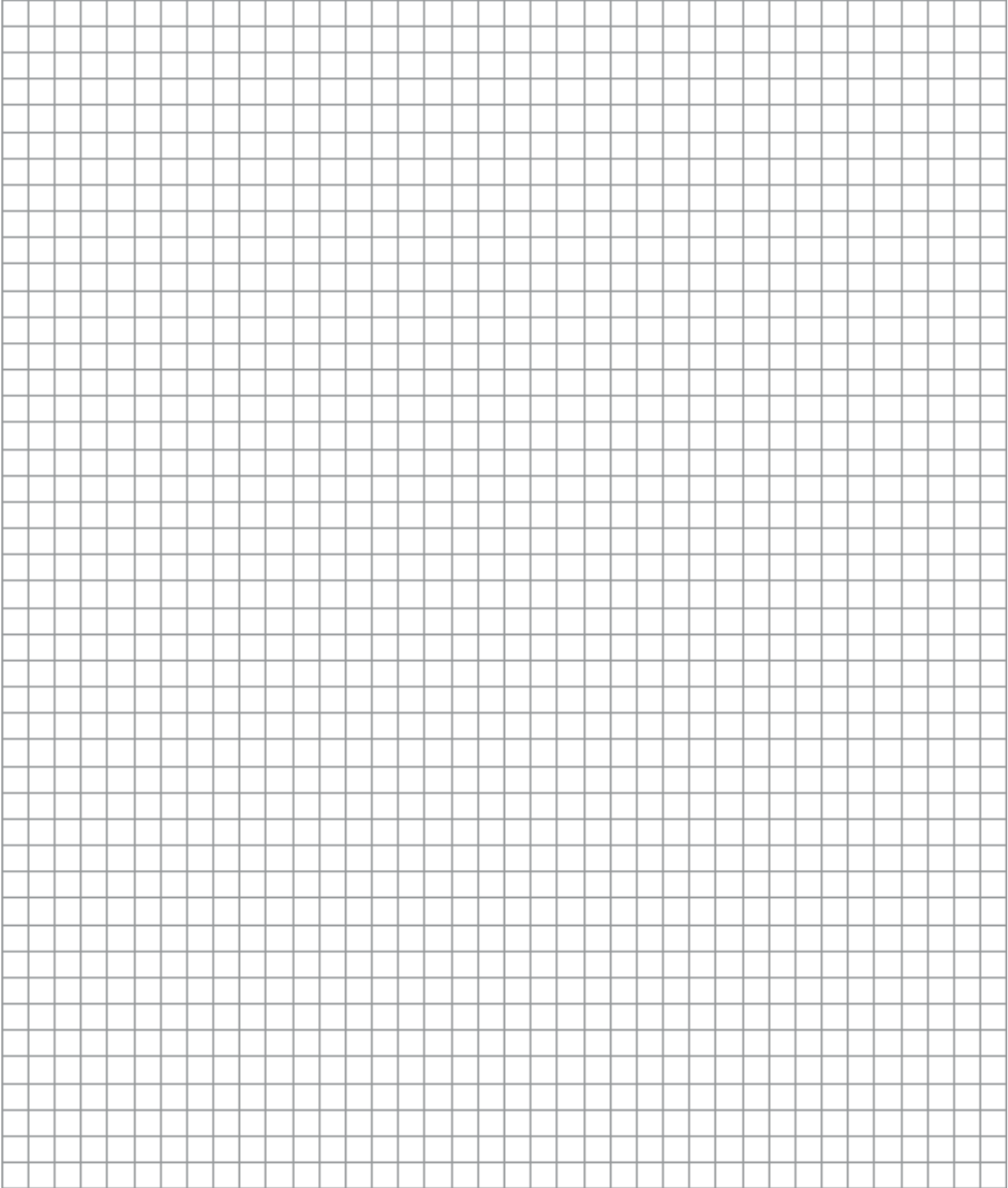
NOTES

A large rectangular area filled with a light gray grid pattern, intended for taking notes. The grid consists of small, uniform squares.

NOTES

A large rectangular area filled with a light gray grid pattern, intended for taking notes.

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