1 Safety

Warning indications

The following warning indications are used in this manual in the context of safety:

!⚠ **DANGER**

Indicates that great potential danger exists that can lead to serious injury or death.

!⚠ **WARNING**

Indicates that a potential danger that can lead to injury exists.

!⚙ **CAUTION**

Indicates that the usage procedures, actions etc. concerned can result in serious damage to or destruction of the engine. Some CAUTION indications also advise that a potential danger exists that can lead to serious injury or death.

☞ **NOTE**

Emphasises important procedures, circumstances etc.

Symbols

✔ Indicates that the relevant procedure must be carried out.

✗ Indicates that a particular action is forbidden.

Share these safety instructions with all users.

General rules and laws concerning safety and accident prevention must always be observed.

2 Introduction

This manual gives guidelines for the use of the VETUS DBPPJA control panel.

Unauthorised modifications shall exclude the liability of the manufacturer for any resulting damage.

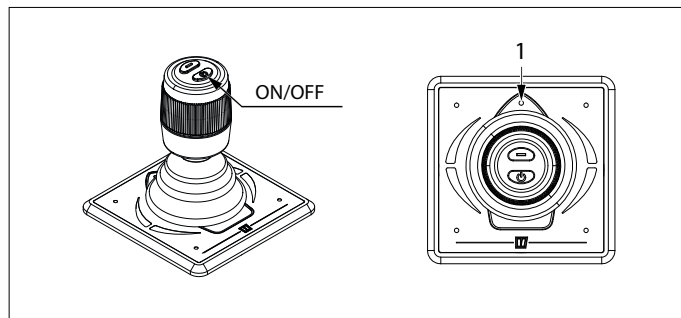• During use ensure the correct battery voltage is available.

!⚠ **WARNING**

Never work on the electrical system while it is energized.

3 Operation

3.1 Switching on a panel

Switch on the main switch. The system is now in 'stand-by'.

• Press the "ON / OFF" button.

LED (1) (blue) will flash and you hear a repeating signal, di-di-di (...). The "ON / OFF" button must be pressed a second time within 6 seconds. The LED (1) will stay on and the buzzer will confirm that the panel is ready for use by giving the signal dahdidah (- . -).

If multiple panels are connected, LED (1) on the panels which have not been switched ON will flash (every second two short blue flashes, heartbeat)

To take over the control to another control panel, perform the above operations on the panel you want to activate.
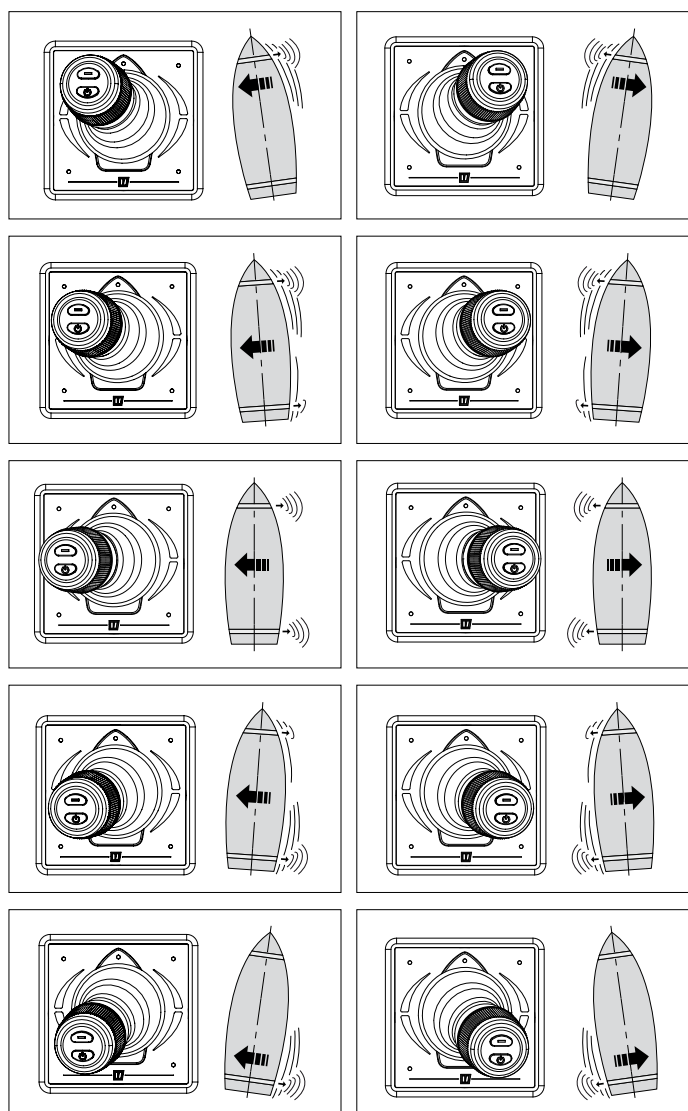
3.2   Use

In principle, use the bow and stern thruster control panel only at low speed or when manoeuvring the boat.
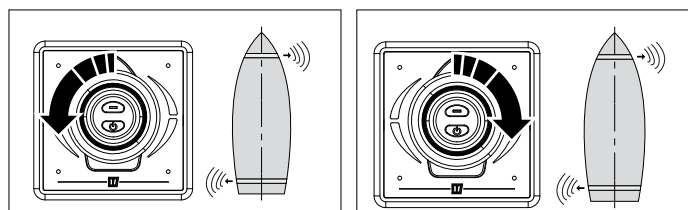
Move the joystick in the direction in which the boat is required to move.

The thrust starts at about 25% and increases proportionally to the maximum value as the joystick is moved further to its outermost position.

Gently move the joystick in the desired sailing direction. If necessary, correct the direction, from the mid position, by moving the joystick slightly up or down.
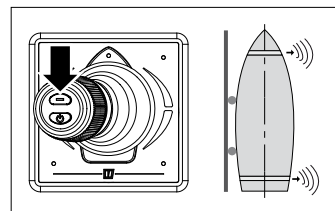

Use the rotary knob to turn the boat around its axis.

3.3   Hold function

Use the HOLD function to temporarily moor your boat. Do this carefully and make sure that your boat is not damaged, for example by using fenders.

- Manoeuvre the boat against the object to be moored.

- Run the bow and stern thrusters with sufficient force to press the boat against the mooring.

- Do not move the joystick. Now press the HOLD button.

- Release the joystick.

Deactivate the HOLD function by:

- Pressing the 'HOLD' button, or

- Pressing the 'ON/OFF' button, or

- Moving the joystick in the opposite direction.

3.4   Switching OFF a panel

Keep pressing the "ON / OFF" button until all LEDs are off and you hear the signal, di-di-di-dah-dah (... - -). The control panel is switched off.

- Turn off the battery main switch when leaving the boat.

3.5   Meaning LED indicator lights

BLUE LED	RED LED	BUZZER	LEFT LED Top	RIGHT LED Top	LEFT LED Bottom	RIGHT LED Bottom	
Blinks (for 6s)		(.) (for 6s)					Childlock after the first push
ON		1x (-.-)					Device is enabled, Bow and Stern thrusters are ready
Blinks double							Device is inactive, thruster is active
			ON		ON		Device enabled and joystick moved to left
				ON		ON	Device enabled and joystick moved to right
			ON				Device enabled and joystick moved to left (full forward)
				ON			Device enabled and joystick moved to right (full forward)
					ON		Device enabled and joystick moved to left (full reverse)
						ON	Device enabled and joystick moved to right (full reverse)
	Blinks fast	1x (.-..-)	Blinks faster	Blinks faster			Bow Thruster is overheated
	OFF	1x (..)	OFF	OFF			Bow Thruster was overheated
	Blinks fast	1x (.-..-)			Blinks faster	Blinks faster	Stern Thruster is overheated
	OFF	1x (..)			OFF	OFF	Stern Thruster was overheated
	Blinks	1x (.-..-)	Blinks faster	Blinks faster			Bow Thruster is overloaded
	OFF	1x (..)	OFF	OFF			Bow Thruster was overloaded
	Blinks	1x (.-..-)			Blinks faster	Blinks faster	Stern Thruster is overloaded
	OFF	1x (..)			OFF	OFF	Stern Thruster was overloaded
	Blinks double	1x (.-..-)	Blinks faster	Blinks faster			Bow Thruster is limiting
	OFF	1x (..)	OFF	OFF			Bow Thruster was limiting
	Blinks double	1x (.-..-)			Blinks faster	Blinks faster	Stern Thruster is limiting
	OFF	1x (..)			OFF	OFF	Stern Thruster was limiting
Blinks fast	Blinks	1x (.-..-)	Blinks faster	Blinks faster			Bow Thruster supply is low
Blinks fast	Blinks	1x (.-..-)			Blinks faster	Blinks faster	Stern Thruster supply is low
			Blinks fast			Blinks fast	Panel supply is low
			Blinks double	Blinks double	Blinks double	Blinks double	Joystick is broken
		1x (.)					Joystick button is pushed
	ON						Disconnected from the network