# 4    Checking/test running and configuring the control panels

## 4.1    General

The control panel (DBPPJA) is intended to be used in combination with a BOWPRO bow and stern thruster. You can expand the number of control panels to a maximum of four.

> ⚠️ **IMPORTANT**
>
> **Before using the system, perform the following:**
> • **Check the thrust direction (see 4.4)**
> • **Only with multiple steering positions: configure a control panel for each steering position (see 4.7)**
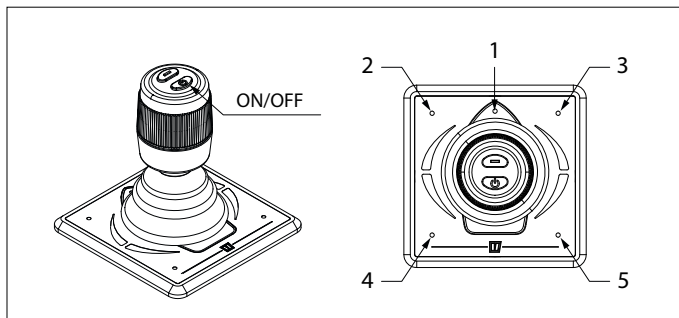


## 4.2    Switching on a panel

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.

## 4.3    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.

## 4.4    Check thrust direction

The direction of movement of the boat must match the direction of movement of the joystick. You must check this! Do this carefully and in a safe location.

•    If the movement of the boot is opposite to the direction the joystick is moved in, this must be modified as indicated in 4.6.
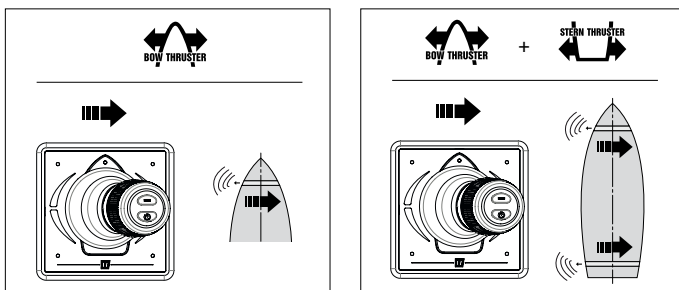


## 4.5    Restore factory settings

Switch off all control panels (see 4.3) and perform the following actions on the control panel to restore the factory settings of the relevant panel:
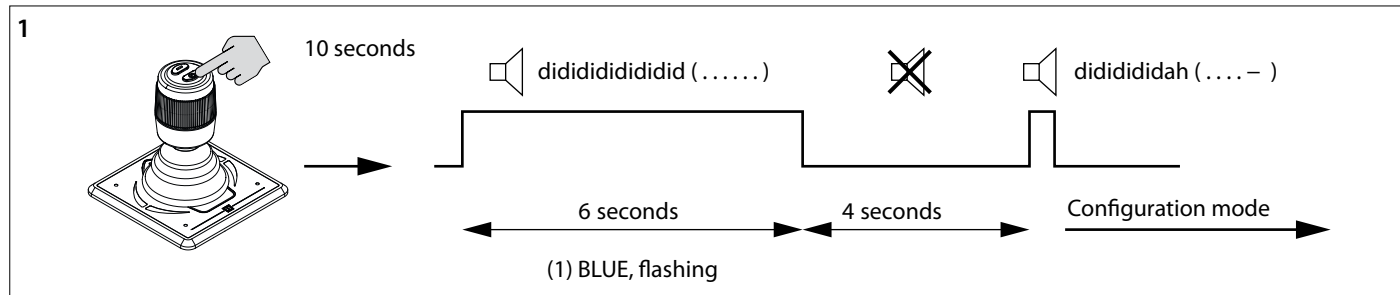


**1**  30 seconds

**2**  dahdidididah ( - . . . - )    2  3    2  RED, flashing    3  GREEN
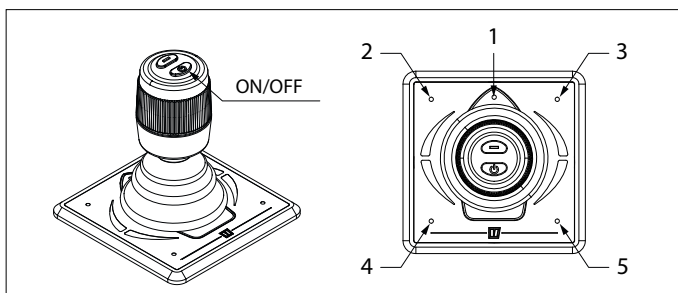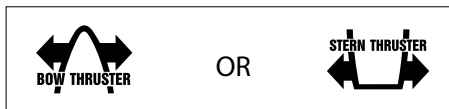
**3**  1 x
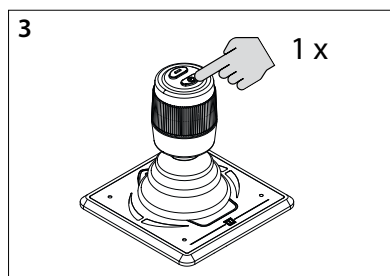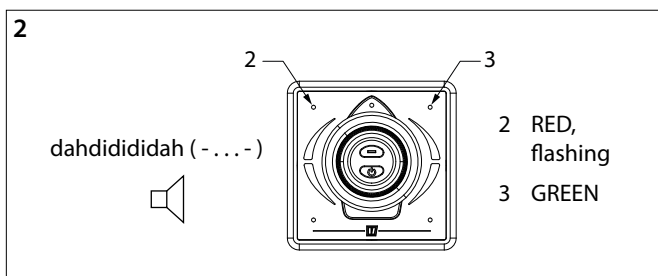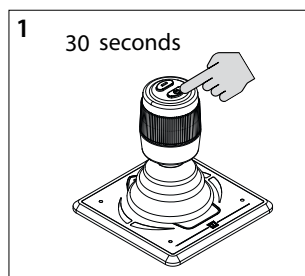
4.  Press and hold the "ON / OFF" button for 30 seconds.

2.  After 30 seconds LED (2) flashes red and LED (3) is green. You hear the signal, dah-di-di-di-dah (-... -). Now release the "ON / OFF" button.

3.  Press the "ON / OFF" button once. All LEDs are off and you hear the signal, dah (-). The factory settings of this control panel have been restored.

## 4.6    Configuring thrust direction



BOW THRUSTER    OR    STERN THRUSTER

**Carry out the following actions on one panel in the order indicated:**

Switch off the panel, see 4.3, and wait 5 seconds before starting the configuration procedure below.



ON/OFF

**1**



10 seconds

didididididididid ( . . . . . . )

didididah ( . . . . − )

6 seconds    4 seconds    Configuration mode
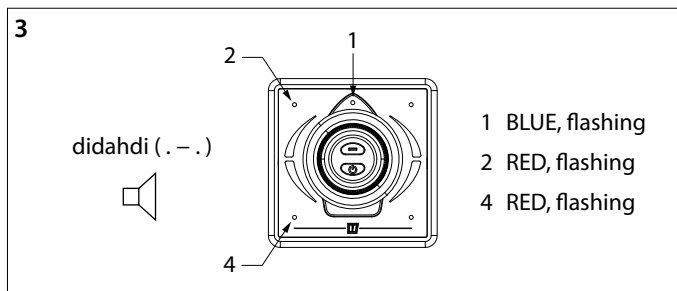
(1) BLUE, flashing

1    Place the panel in configuration mode

• Press and hold the "ON / OFF" button for 10 seconds.

During the first 6 seconds, LED (1) flashes blue and the buzzer will continuously signal a didididididi ..... (. . . .). Keep pressing the "ON / OFF" button. After 10 seconds the buzzer sounds the signal didididi-dah (. . . - -).

**2**



2 x

**3**

didahdi ( . − . )



1    BLUE, flashing
2    RED, flashing
4    RED, flashing

☞    **IMPORTANT**

**If another combination of LEDs is lit, first restore the factory settings (see 4.5) and start checking the thrust direction again (see 4.4).**
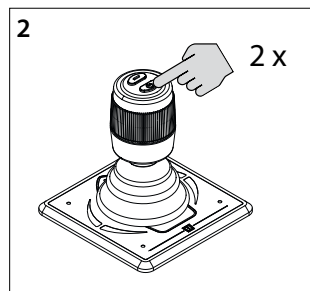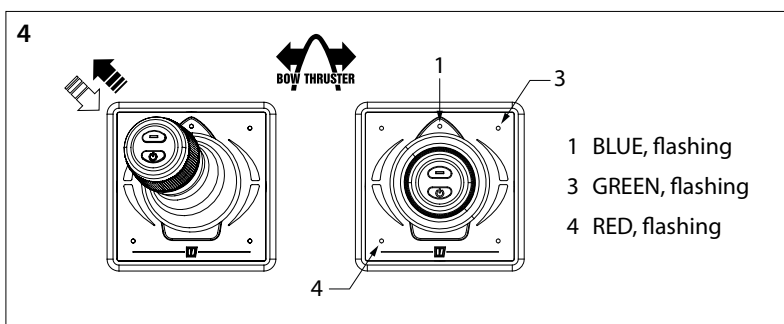
2.    Press the On/Off button twice.

3.    LEDs (1) (blue) (2) (red) and (4) (red) flash and you hear the signal, di-dah-di (. -.) Now the panel is in configuration mode.

4.    **Configuring thrust direction for a bow thruster:**
Move the joystick to the upper left corner and back until LEDs (1) (blue), (3) (green) and (4) (red) flash.
Repeat if necessary.

**OR**

**4**

BOW THRUSTER



1    BLUE, flashing
3    GREEN, flashing
4    RED, flashing

**6**



1 x

5.    **Configuring thrust direction for a stern thruster:**
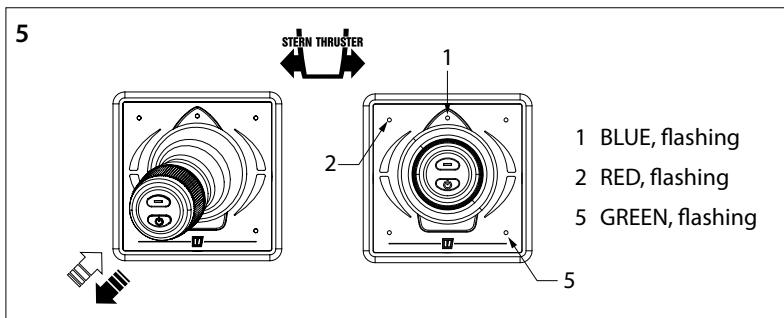Move the joystick to the bottom left corner and back until LEDs (1) (blue), (2) (red) and (5) (green) flash.
Repeat if necessary.

**5**

STERN THRUSTER



1    BLUE, flashing
2    RED, flashing
5    GREEN, flashing
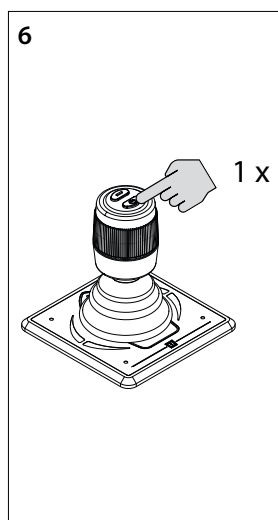
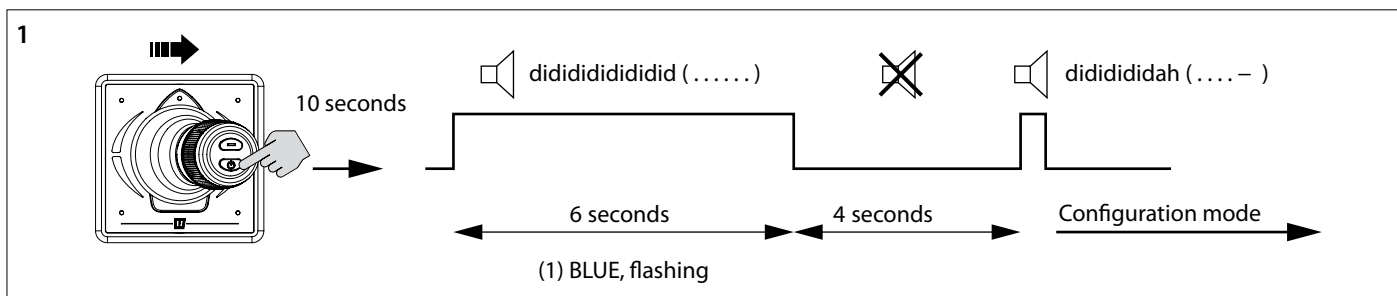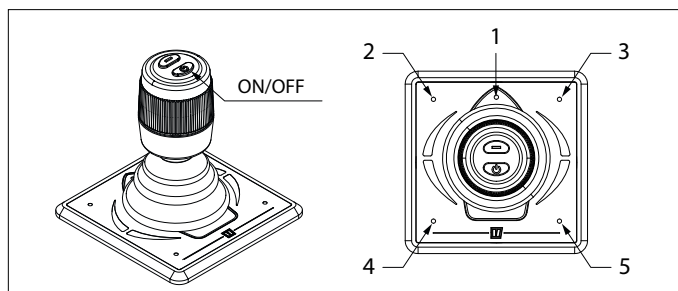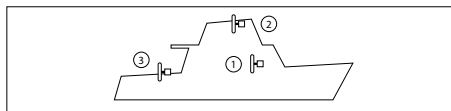6.    Press the "ON / OFF" button once to confirm the setting.

## 4.7 Configuration of multiple control panels

**Carry out the following actions on EACH panel in the order indicated:**

Switch off the panel, see 4.3, and wait 5 seconds before starting the configuration procedure below.
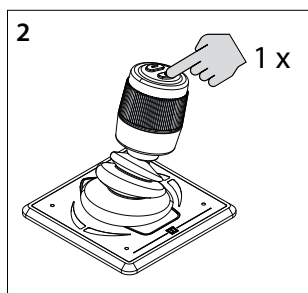
**Set up multiple control panels**
You can configure four control panels (Group code A, B, C or D). Use one group code per control panel.



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**1**



10 seconds

dididididididid ( . . . . . . )

didididdah ( . . . . − )

6 seconds

4 seconds
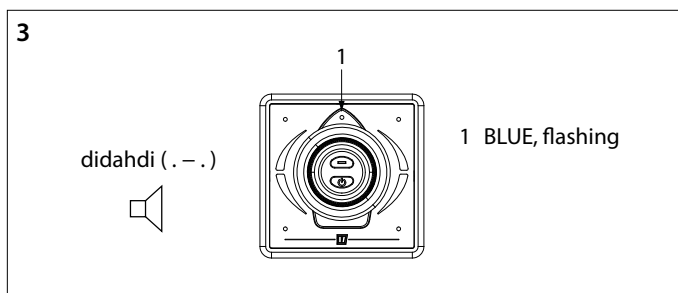
Configuration mode

(1) BLUE, flashing

1. Place the panel in configuration mode

• Push the joystick to the right, press and hold the "ON / OFF" button for 10 seconds.

During the first 6 seconds, LED (1) flashes blue and the buzzer will continuously signal a didididididi ..... (. . . .). Keep pressing the "ON / OFF" button. After 10 seconds the buzzer sounds the signal didididi-dah (. . . - -).

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**2**



1 x

**3**



didahdi ( . − . )

1 BLUE, flashing

**IMPORTANT**

**If another combination of LEDs is lit, first restore the factory settings (see 4.5) and start checking the thrust direction again (see 4.4).**

2. Press the On/Off button once.

3. LED (1) flashes blue and you hear the signal, di-dah-di (. -.)
   Now the panel is in configuration mode.

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**4**



OR

**Group A** BLUE, flashing
**Group B** RED, flashing
**Group C** BLUE and RED, simultaneously flashing
**Group D** PURPLE, flashing

**5**



1 x
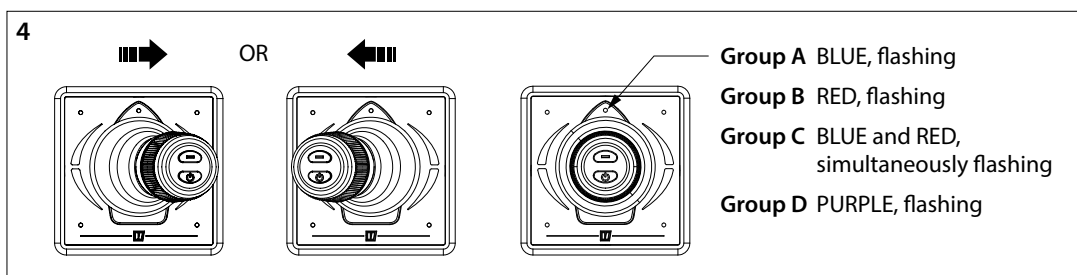
4. Move the joystick to the left or right to set the control panel code. The color of the LED indicates the control panel group code.
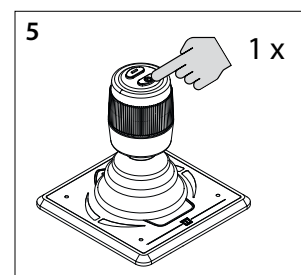
5. Press the On/Off button once to confirm the setting.

## 4.8    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 |