

DYNAMIC TRIM CONTROL SYSTEM

SERIES S **PRO**

INSTALLATION GUIDE

TOOLS

Drill bits

- Ø 3 mm (1/8")
- Ø 3.5 mm (9/64")
- Ø 4 mm (5/32")
- Ø 5 mm (13/64")



Hole saw

- Ø 19 mm (3/4")
- Ø 76 mm (3")
- Ø 16 mm (5/8") (optional)



Thread Tap (optional)

M18 x 2.5



Screw bits

- T10
- T20
- T25
- T30



Power drill



Sealant



Flat screwdriver



Bits screwdriver



Wrench

- 13 mm (33/64")
- 27 mm (1 1/16")



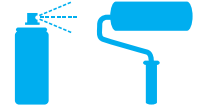
Utility knife



Hacksaw

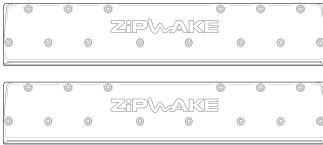


Antifouling



THE KIT BOX CONTAINS

INTERCEPTOR



2 x Interceptors
with Cable 3 m & Cable Cover

DISTRIBUTION UNIT



1 x Distribution Unit
with Power Cable 4 m

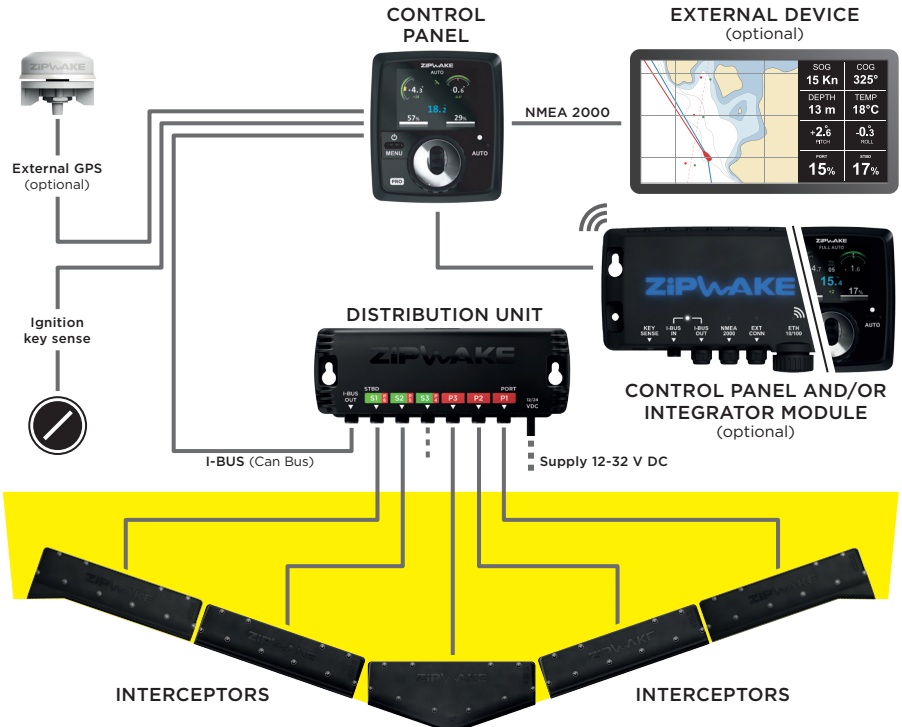
CONTROL PANEL



1 x Control Panel
with Standard Cable 7 m

- + Operator's Manual
- + Warranty Card
- + Installation Guide
- + Drill Templates
- + Mounting Screws
- + Operator's Quick Guide
- + Startup Checklist

SYSTEM OVERVIEW

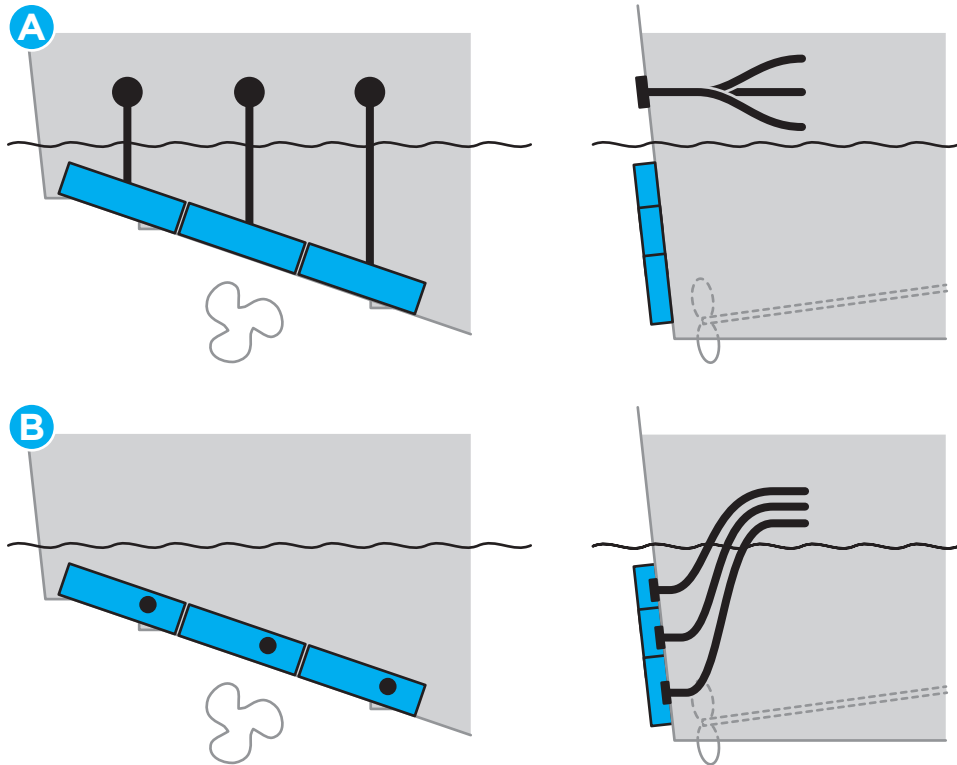


INTERCEPTOR

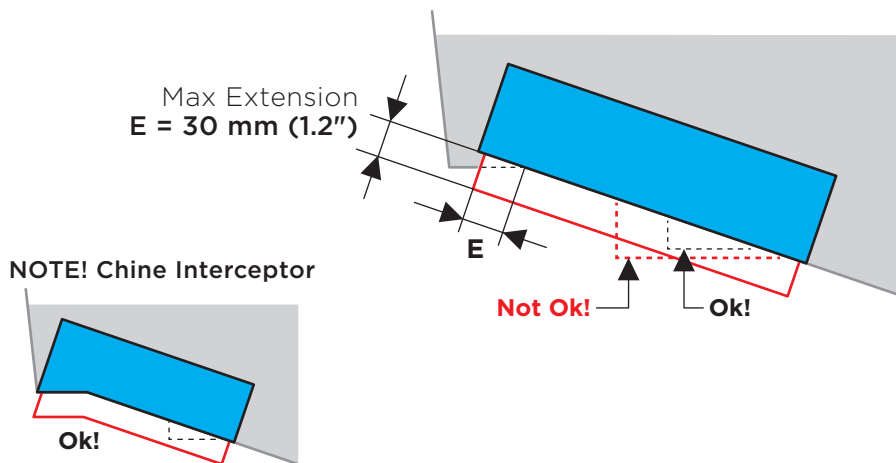
1 MOUNTING OPTIONS

THRU-HULL CABLE FITTINGS

Depending on preference, the Interceptors can be mounted with thru-hull cable fittings above the waterline (A) or below, concealed behind the Interceptors (B).



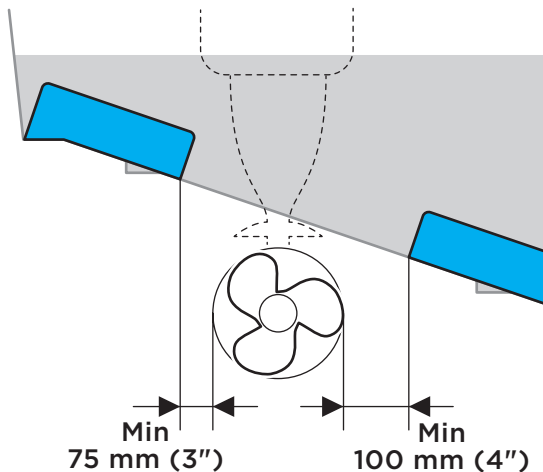
ALLOWED SPRAY RAIL OVERLAP



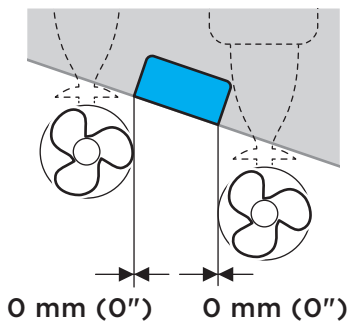
INTERCEPTOR

PROPELLER CLEARANCE

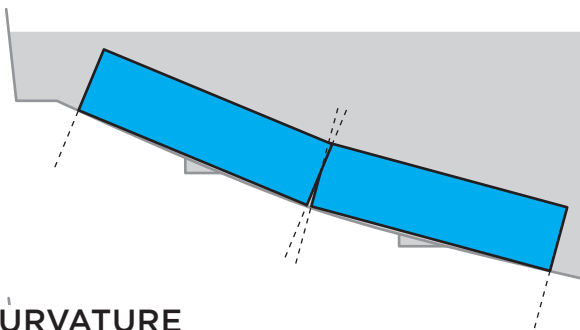
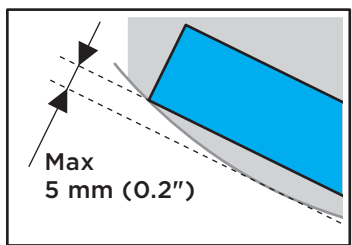
If the boat has an outboard engine or sterndrive, the Interceptors must be mounted with clearance to the propeller(s).



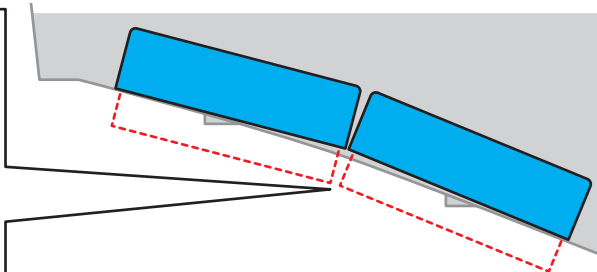
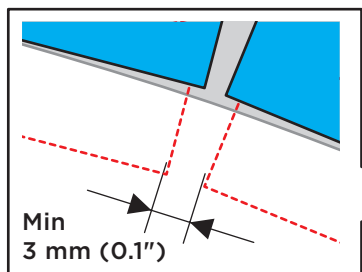
NOTE!
Intermediate interceptor



CONVEX BOTTOM CURVATURE



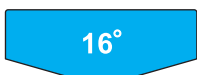
CONCAVE BOTTOM CURVATURE



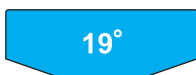
OPTIONAL



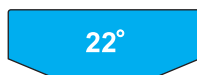
13°



16°



19°



22°

V-shaped models for center mount

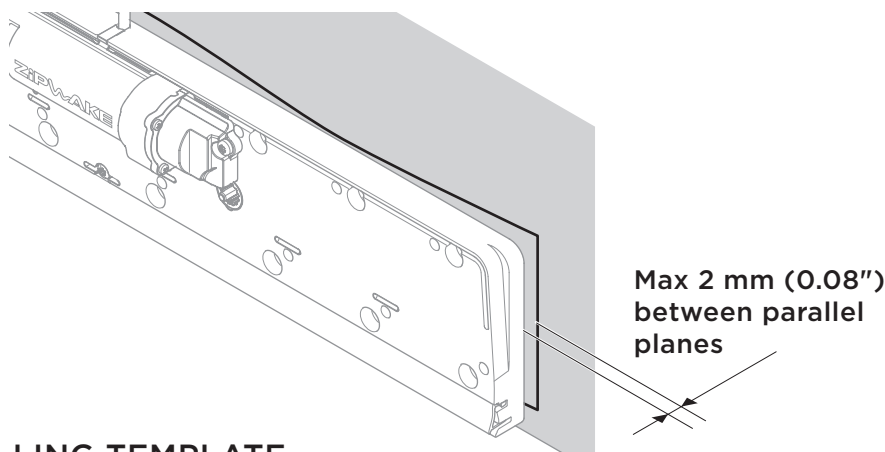
NOTE! Same tolerances and clearances as straight/chine interceptors.

INTERCEPTOR

2 PREPARE THE TRANSOM

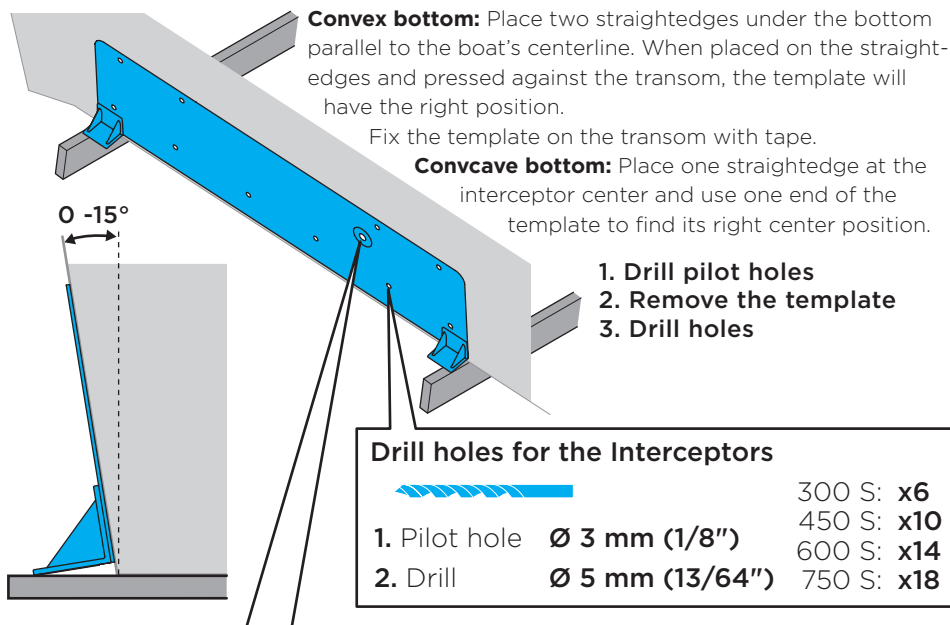
ENSURE A FLAT SURFACE FOR EACH INTERCEPTOR

The transom must be relatively flat where the Interceptors are mounted to ensure that they work properly.



DRILLING TEMPLATE

Start mounting the Interceptors as far outward as possible, although well inside the transom. Continue inwards when installing multiple Interceptors.



Only if a concealed thru-hull fitting will be used

Option 1:

1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 19 mm (3/4")

Option 2 (M18 x 2.5):

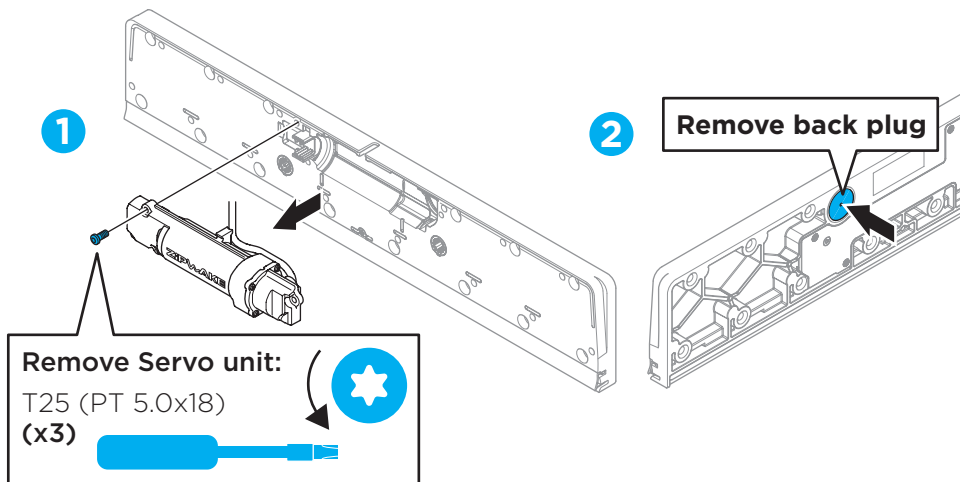
1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 16 mm (5/8")
3. Thread tap M18 x 2.5



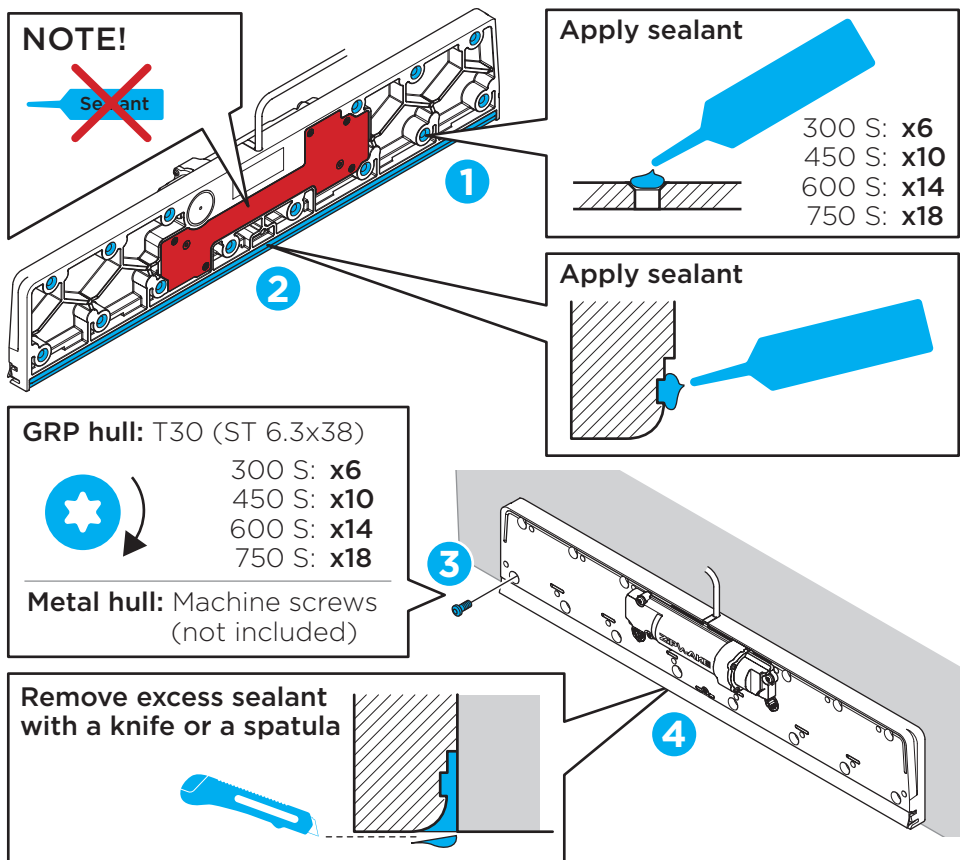
INTERCEPTOR

3 INSTALL THE BACK PLATES

A. FOR THRU-HULL FITTINGS ABOVE THE WATERLINE GO STRAIGHT TO STEP B.



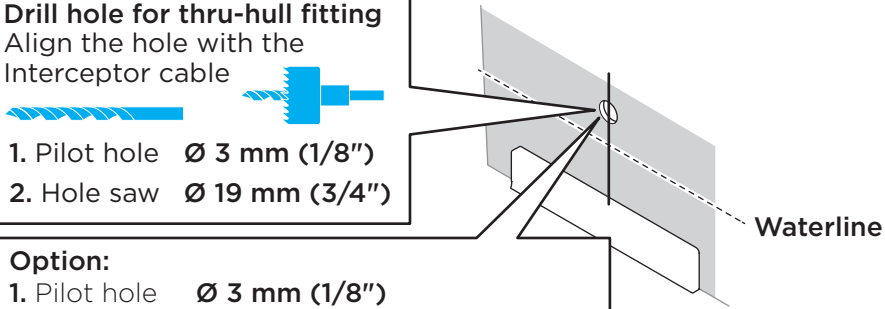
B. MOUNT THE BACK PLATE



INTERCEPTOR

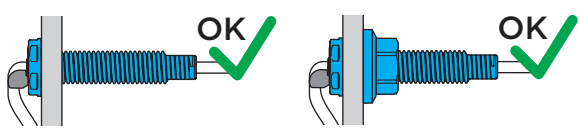
4A INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE

1 Drill hole for thru-hull fitting
Align the hole with the Interceptor cable



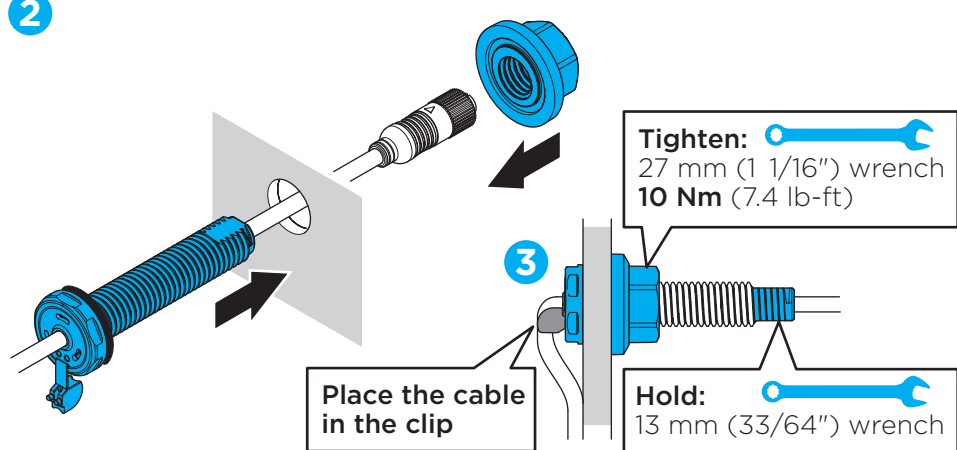
1. Pilot hole \varnothing 3 mm (1/8")
2. Hole saw \varnothing 19 mm (3/4")


Option:
1. Pilot hole \varnothing 3 mm (1/8")
2. Hole saw \varnothing 16 mm (5/8")
3. Thread tap M18 x 2.5



Waterline


2



Tighten: 
27 mm (1 1/16") wrench
10 Nm (7.4 lb-ft)

3

Place the cable in the clip

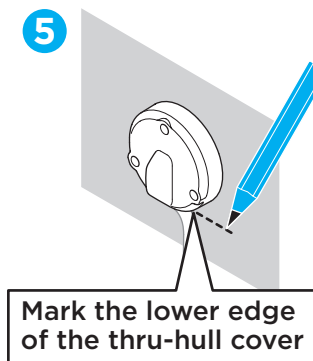
Hold: 
13 mm (33/64") wrench

4



Place the cover on the thru-hull fitting

5



Mark the lower edge of the thru-hull cover

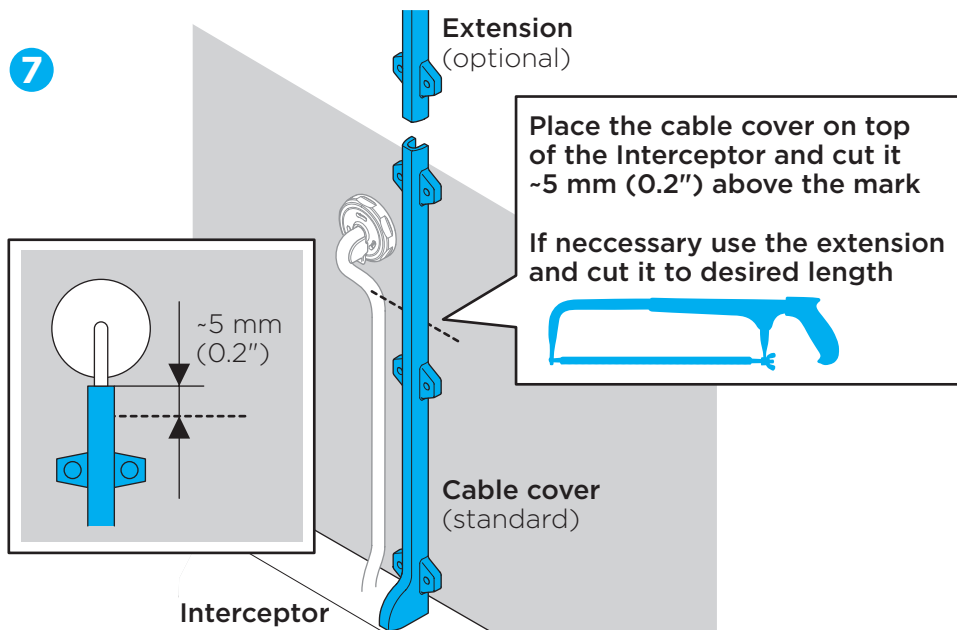
6



Remove the thru-hull cover

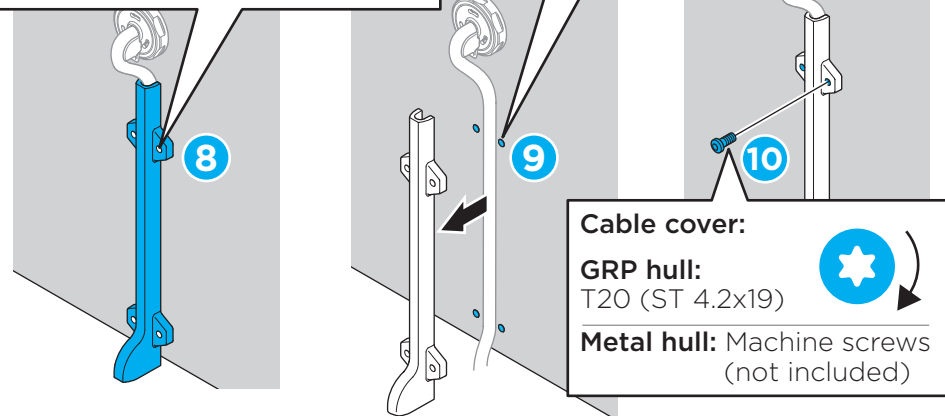
INTERCEPTOR

7



Drill holes for the cable cover
Use the cover as a drill template
Ø 3.5 mm (9/64")

Apply sealant

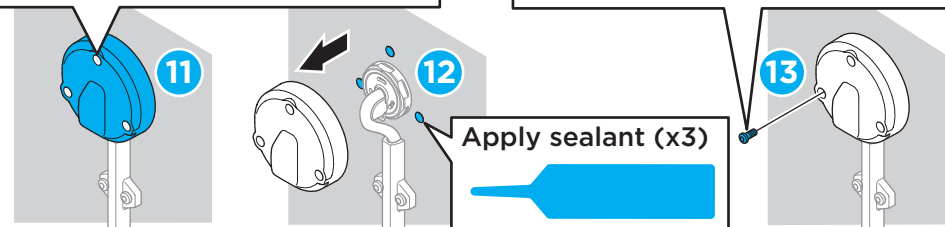


Drill holes (x3) for the cover
Use the cover as a drill template
Ø 5 mm (13/64")

Thru-hull cover:

GRP hull:
T30 (ST 6.3x38) (x3)

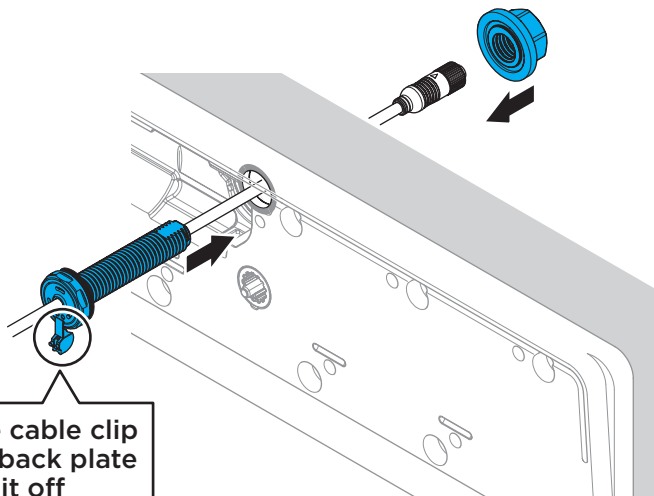
Metal hull: Machine screws
(not included)



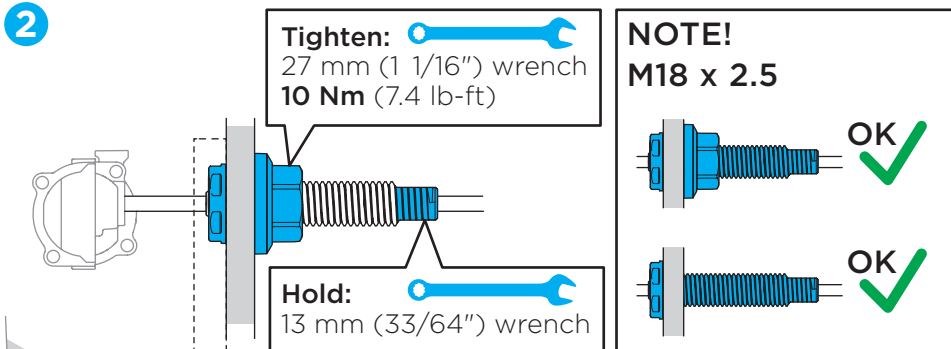
INTERCEPTOR

4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

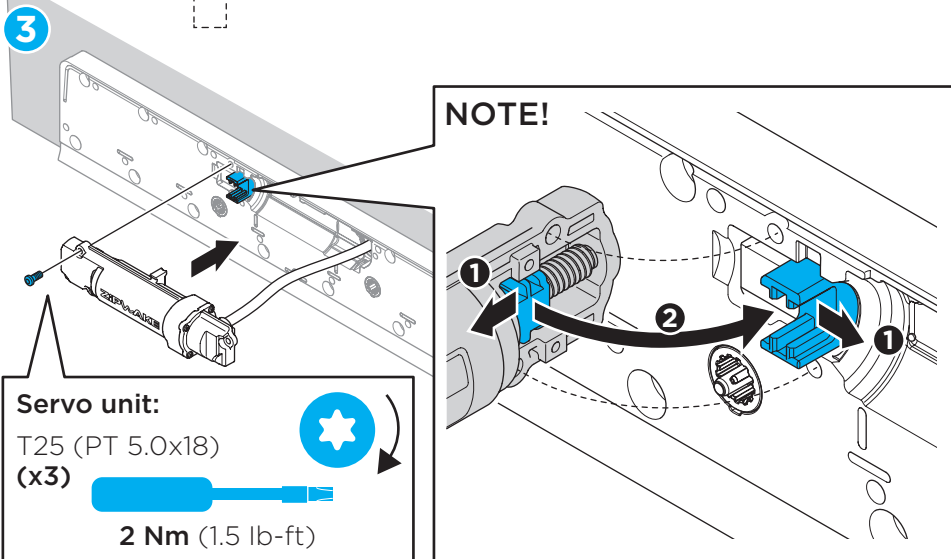
1



2

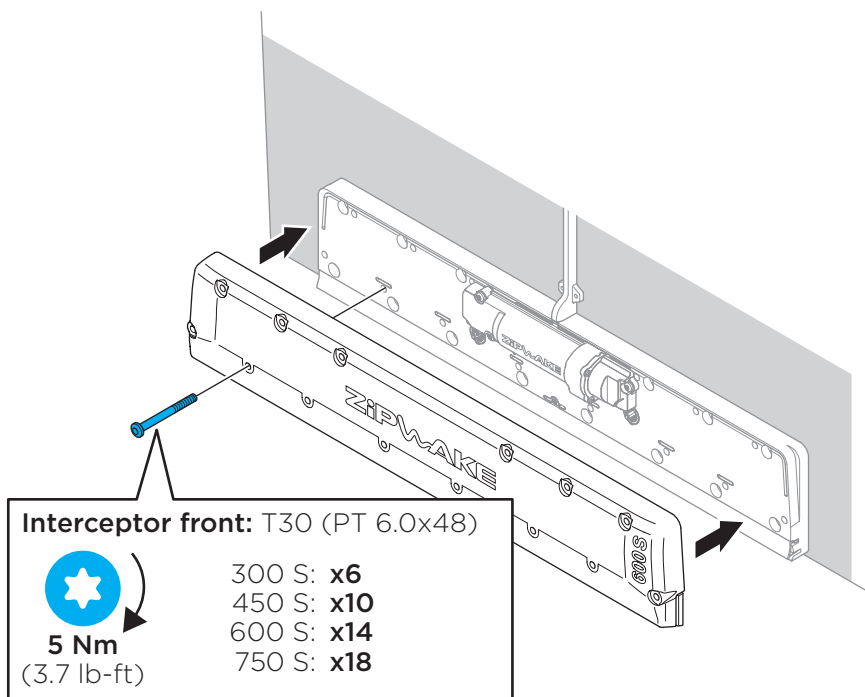


3

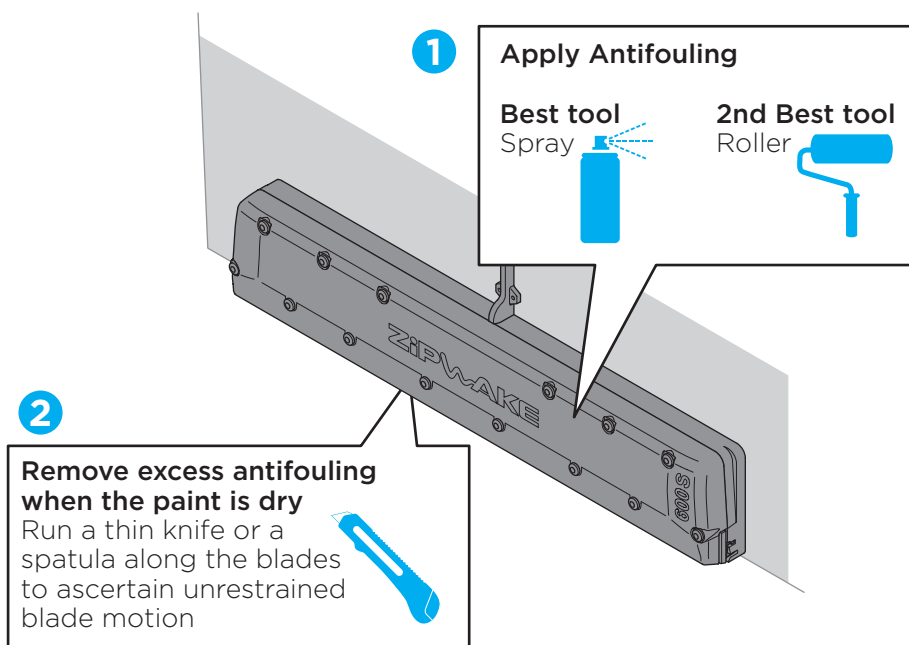


INTERCEPTOR

5 INSTALL THE INTERCEPTOR FRONTS



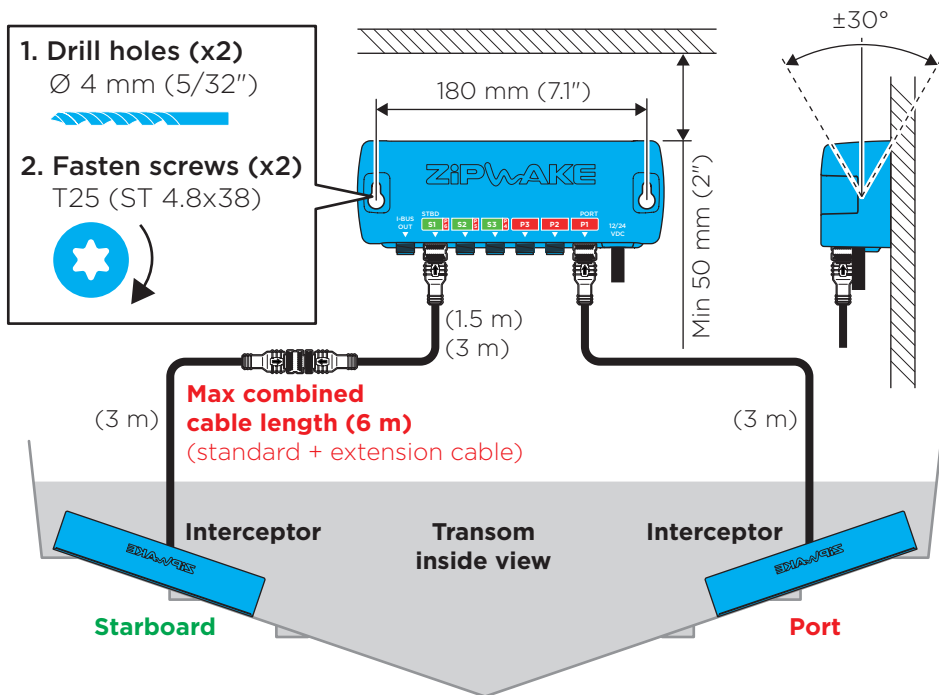
6 PAINT THE INTERCEPTORS WITH ANTIFOULING



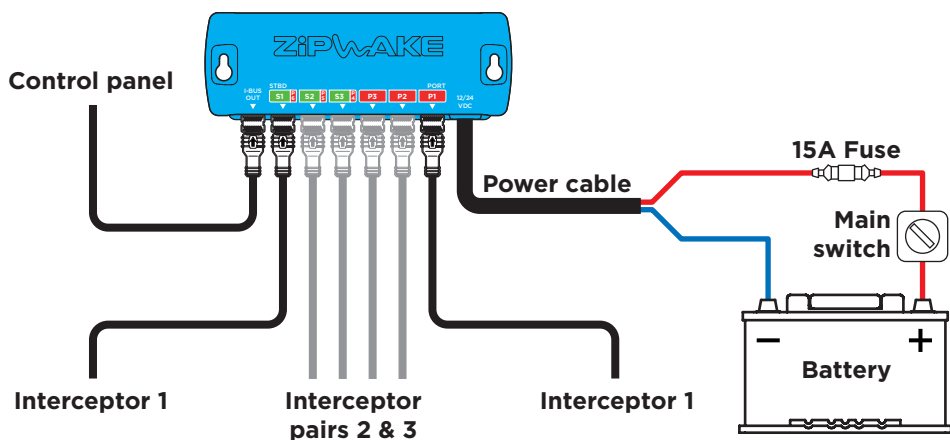
DISTRIBUTION UNIT

1 MOUNT THE DISTRIBUTION UNIT

Mount the distribution unit inboard, where it is easy to connect it to both the interceptors and the power supply (battery), e.g., in the engine room. Position the unit on a vertical ($\pm 30^\circ$) hard surface with the connectors facing downward. Ensure a minimum clearance of 50 mm (2") at the top for sufficient convection cooling.



2 CONNECT THE DISTRIBUTION UNIT

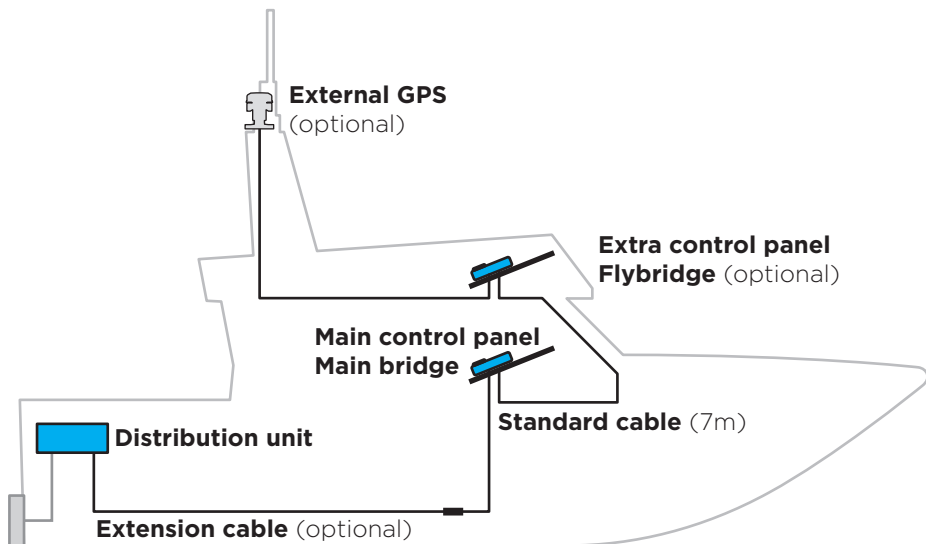


NOTE! The system allows an unpaired Interceptor mounted on the center of the transom. A centerline mounted Interceptor should always be connected to port side 3 to work properly. Detailed wiring diagram is available at the end of this folder.

CONTROL PANEL

1 ROUTE CABLES

Route the cables between the control panel(s), the distribution unit and optional equipment. Use optional extension cables if necessary. A detailed wiring diagram is available at the end of this folder.

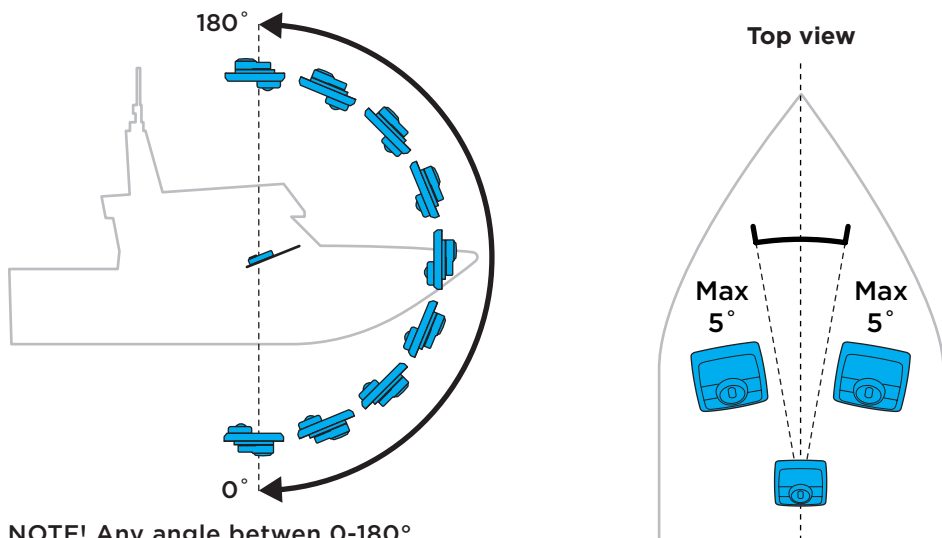


2 PREPARE THE DASH

The control panel must be mounted within certain angles relative to the boat's axes for the built-in sensors to deliver reliable output.

Locate a free area on the dash suitable for mounting the control panel. Use the control panel's template as a guide to see if it will fit next to other instruments.

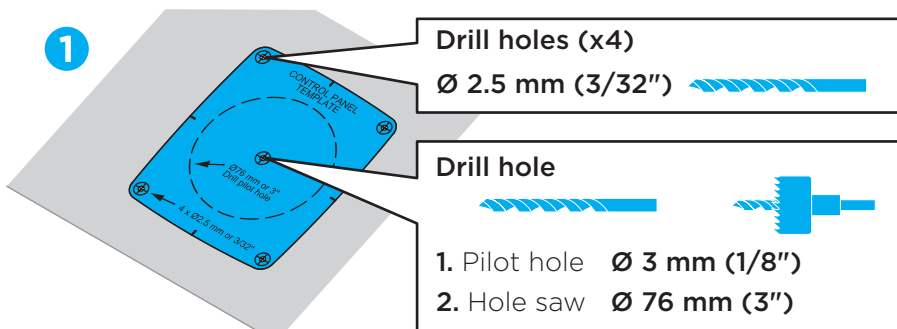
NOTE! 0.5 m (1.6 ft) safe distance to magnetic compass.



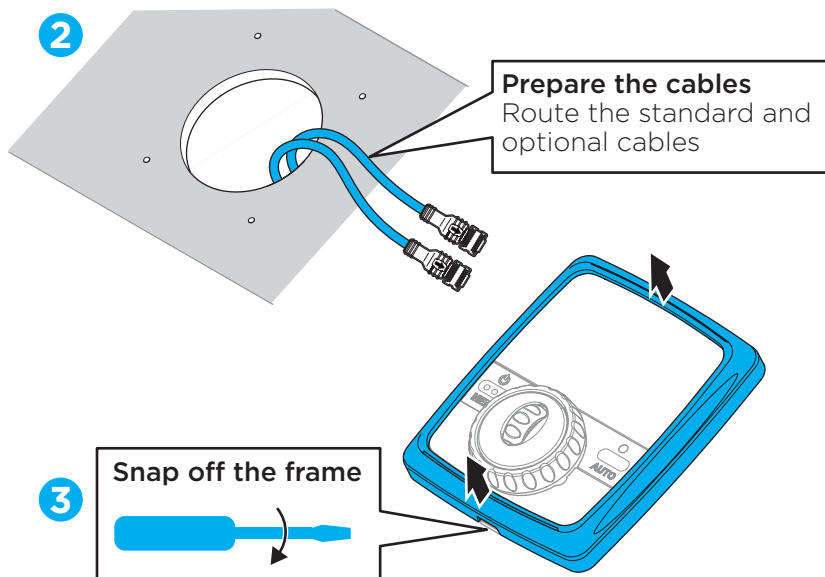
NOTE! Any angle between 0-180°

CONTROL PANEL

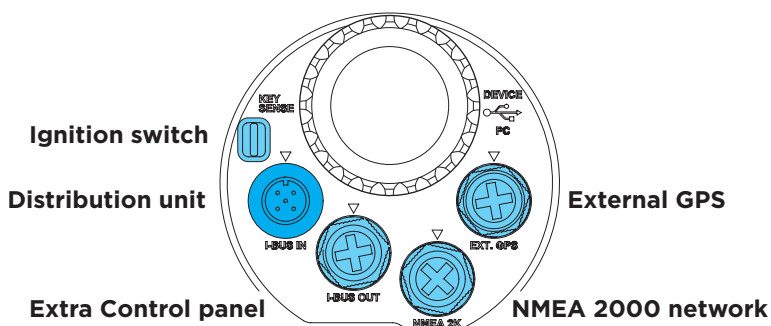
3 MOUNT THE CONTROL PANEL



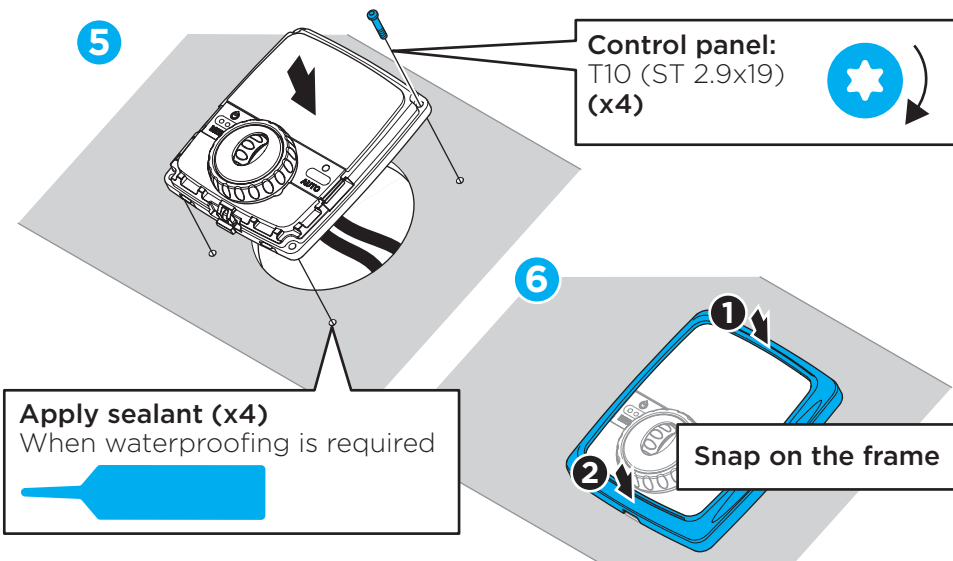
Flush mount option: refer to www.zipwake.com for a drawing and 3D model.



4 Connect the cables on the back of the Control panel.



CONTROL PANEL

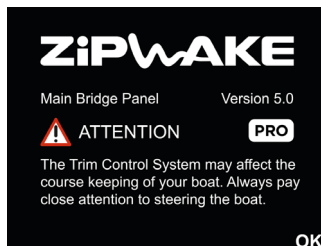


4 INITIAL START

Refer to the Operator's Manual for detailed information about setting up and operating the system.

SET UP THE SYSTEM

Press and hold the POWER/MENU button until the Zipwake logo appears on the display and follow the steps on the screen.

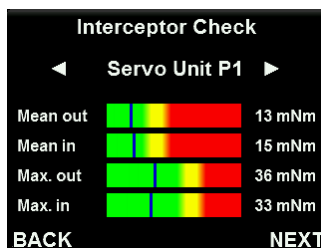


INTERCEPTOR CHECK

Carry out an Interceptor Check to verify function immediately after installation, before launching the boat.

NOTE - All readings must be green!

Corrective actions are always necessary when excessive torque levels are observed. Verify the flatness of the transom, excess use of sealant behind the interceptor and/or excess antifouling between the blades and adjust if needed.

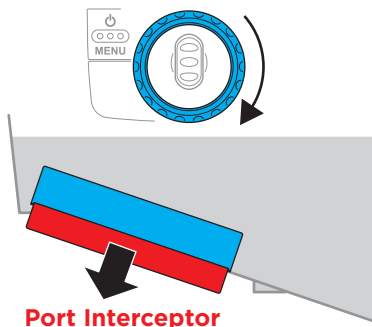


VERIFY FUNCTION ON SHORE

1. Turn the Roll wheel clockwise
2. Port side Interceptor(s) should move out
3. Repeat counter-clockwise for starboard

IMPORTANT

Always use the controls to move the Interceptor blades. Never try to force the Interceptor blades by hand.



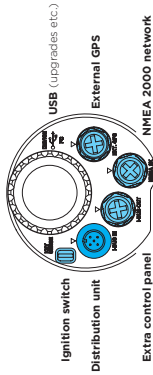
WIRING DIAGRAM

ACCESSORIES

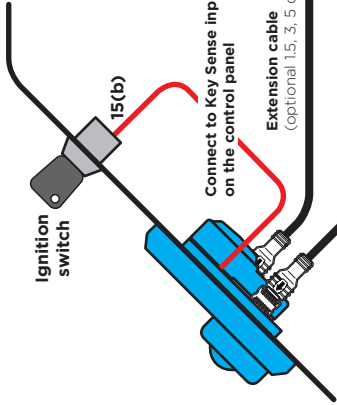
Model	Part No.	Description
IM	2012241	INTEGRATOR MODULE
CP PRO	2022032	CONTROL PANEL PRO WITH STANDARD CABLE 7 M
IT300-S PRO	2021232	INTERCEPTOR 300 S PRO WITH CABLE 3 M & CABLE COVERS
IT450-S PRO	2021233	INTERCEPTOR 450 S PRO WITH CABLE 3 M & CABLE COVERS
IT600-S PRO	2021234	INTERCEPTOR 600 S PRO WITH CABLE 3 M & CABLE COVERS
IT750-S PRO	2021235	INTERCEPTOR 750 S PRO WITH CABLE 3 M & CABLE COVERS
IT450-S PRO V13	2021482	INTERCEPTOR 450 S PRO V13 WITH CABLE 3 M & CABLE COVERS
IT450-S PRO V16	2021483	INTERCEPTOR 450 S PRO V16 WITH CABLE 3 M & CABLE COVERS
IT450-S PRO V19	2021484	INTERCEPTOR 450 S PRO V19 WITH CABLE 3 M & CABLE COVERS
IT450-S PRO V22	2021485	INTERCEPTOR 450 S PRO V22 WITH CABLE 3 M & CABLE COVERS
IT300-S PRO CHINE PORT	2021702	INTERCEPTOR 300 S PRO CHINE PORT SIDE WITH CABLE 3 M & CABLE COVERS
IT300-S PRO CHINE STBD	2021703	INTERCEPTOR 300 S PRO CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVERS
IT450-S PRO CHINE PORT	2021704	INTERCEPTOR 450 S PRO CHINE PORT SIDE WITH CABLE 3 M & CABLE COVERS
IT450-S PRO CHINE STBD	2021705	INTERCEPTOR 450 S PRO CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVERS
IT300-S PRO INTER	2021701	INTERCEPTOR 300 S PRO INTERMEDIATE WITH CABLE 3 M & CABLE COVERS
CP ALU FRAME	2011281	CONTROL PANEL ALU FRAME
CP COVER	2011381-2011385	CONTROL PANEL COVER WHITE, LIGHT GRAY, MID GRAY, DARK GRAY, BLACK
GPU	2011240	GLOBAL POSITIONING UNIT WITH CABLE 5 M & MOUNT KIT
GB	2011622	GIMBAL BRACKET FOR CONTROL PANEL
CC-S	2011071	CABLE COVER S KIT
EC1.5-M12	2011258	M12 EXTENSION CABLE 1.5 M
EC3-M12	2011259	M12 EXTENSION CABLE 3 M
EC5-M12	2011260	M12 EXTENSION CABLE 5 M
EC10-M12	2011261	M12 EXTENSION CABLE 10 M
EC15-M12	2012038	M12 EXTENSION CABLE 15 M
EC20-M12	2012039	M12 EXTENSION CABLE 20 M

WIRING DIAGRAM

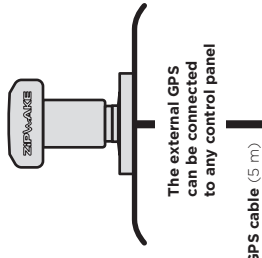
MAIN CONTROL PANEL (CP PRO)



EXTRA CONTROL PANEL (CP PRO)



EXTERNAL GPS (GPU)



The external GPS can be connected to any control panel

Max combined cable length (15 m)
(standard + extension cable)

Extension cable
(optional 1.5, 3, 5 or 10 m)

Connect to Key Sense input on the control panel

Ignition switch

15(b)

INTEGRATOR MODULE (IM)

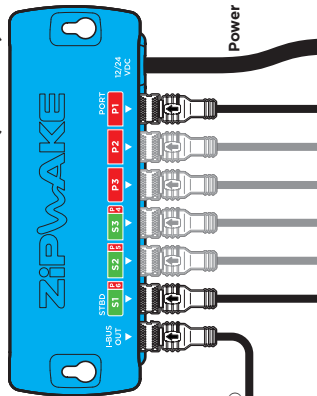
(optional connections for hard-wired system integration and wireless communication)

Standard cable (7 m)

Extension cable* (optional)

Extension cable* (optional)

DISTRIBUTION UNIT (DU PRO)

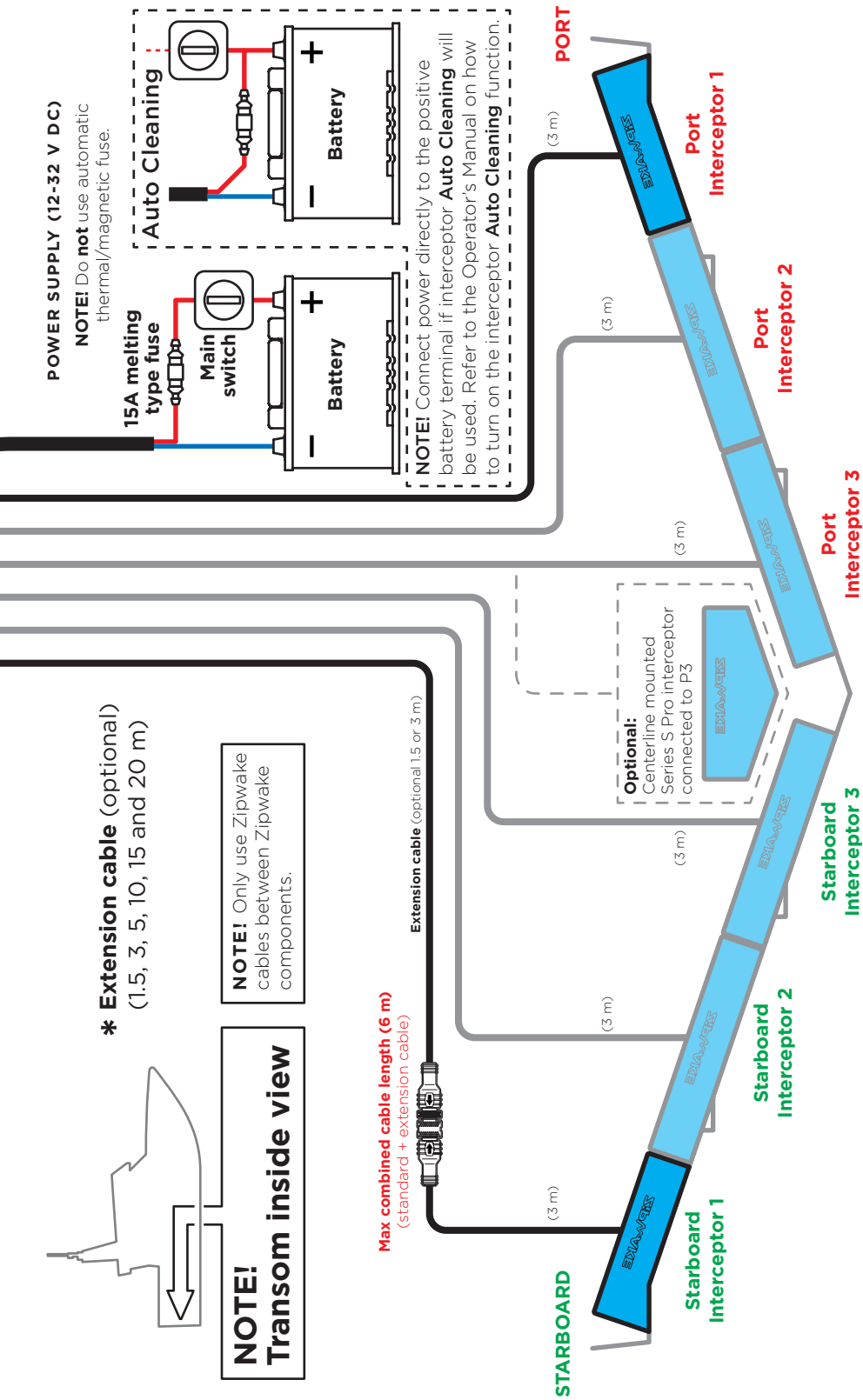


Standard cable (7 m)

Power cable (4 m)

To NMEA 2000 backbone
(optional GPS source, external monitoring and/or control)

WIRING DIAGRAM



Visit zipwake.com for additional information such as:

- Operator's Manuals and Installation Guides in different languages
- Product specifications, including a list of accessories and spare parts
- Application examples and Interceptor mounting options
- Drawings and 3D models of system components
- Software upgrades for your Dynamic Trim Control System
- NMEA 2000 documentation

ZIPWAKE

TRIM CONTROL MADE EASY