

DYNAMIC TRIM CONTROL SYSTEM

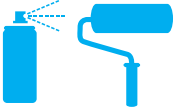
SERIES E **PRO**

FOR INTEGRATION

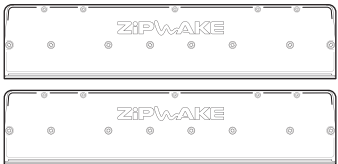
INSTALLATION GUIDE

ZIPWAKE

CHOOSE COMFORT. ENJOY PERFORMANCE.

TOOLS	Drill bits Ø 3 mm (1/8") Ø 4 mm (5/32") Ø 6.5 mm (1/4")	Hole saw Ø 19 mm (3/4")	Screw bits T25 T30 T40
			
Power drill	Sealant	Flat screwdriver Bits screwdriver	Wrench 13 mm (33/64") 27 mm (1 1/16")
		 	
	Utility knife	Hacksaw	Antifouling
			

KIT BOX CONTENTS

INTERCEPTOR


2 x Interceptors
with Cable 3 m & Cable Cover

DISTRIBUTION UNIT


1 x Distribution Unit
with Power Cable 4 m

INTEGRATOR MODULE

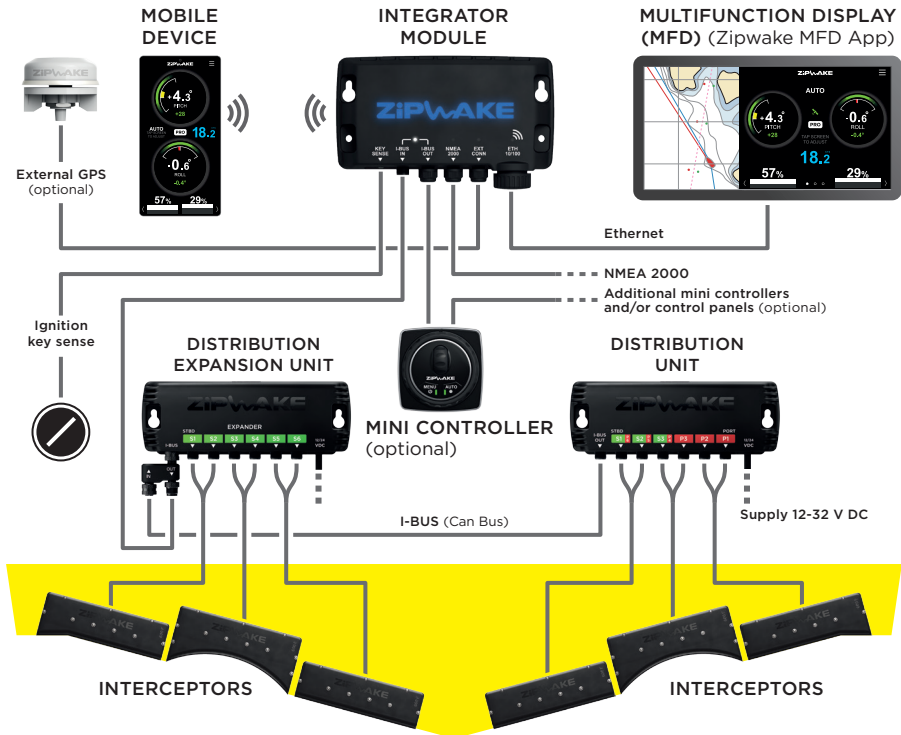

1 x Integrator Module

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



1 x Standard Cable 15 m

SYSTEM OVERVIEW

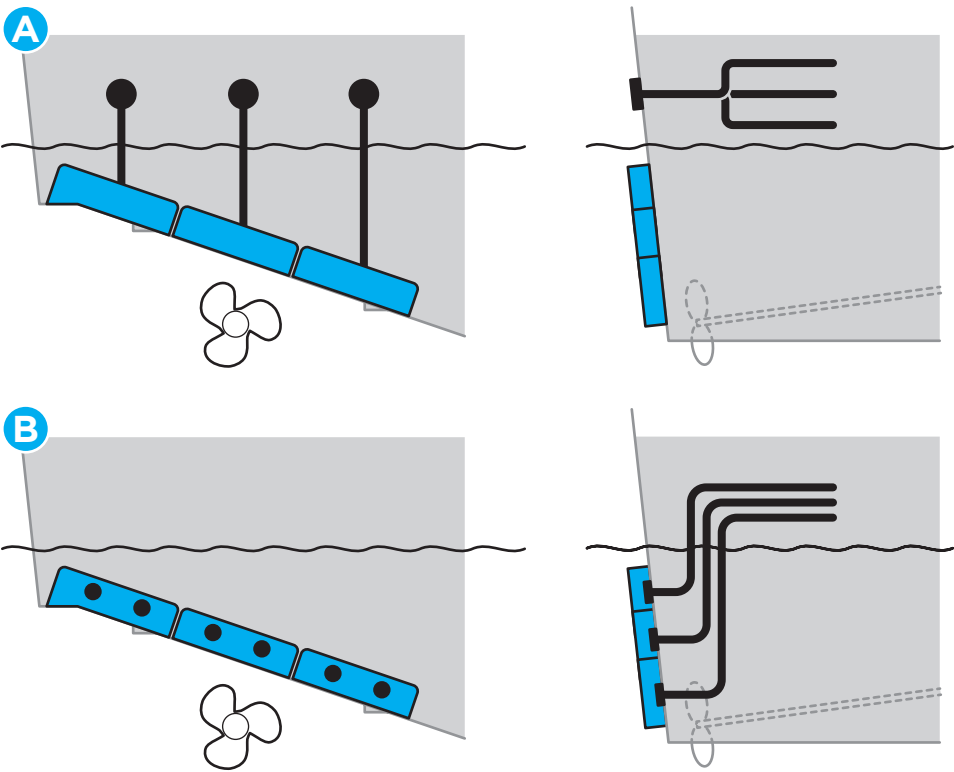


INTERCEPTOR

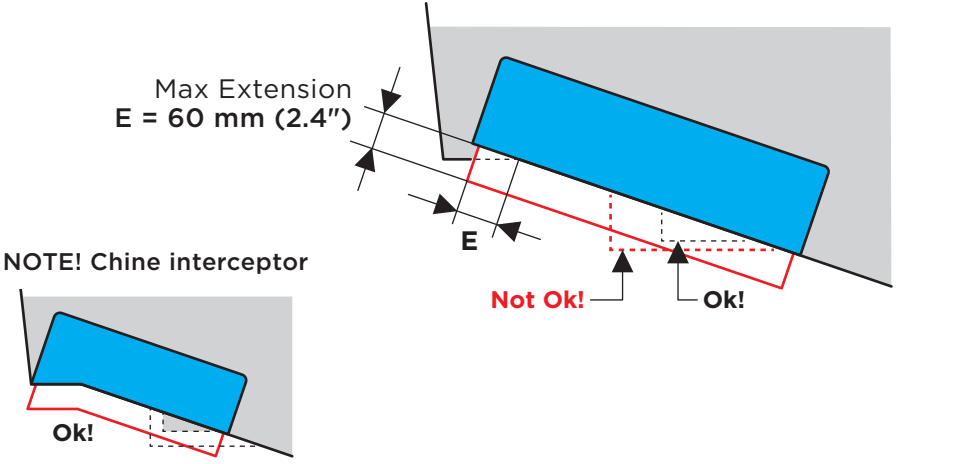
1 MOUNTING OPTIONS

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).



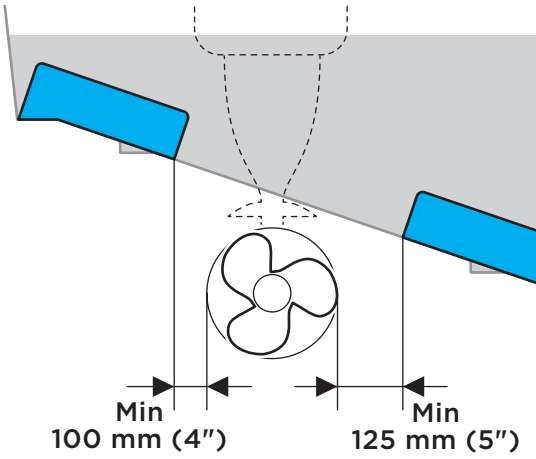
ALLOWED SPRAY RAIL OVERLAP



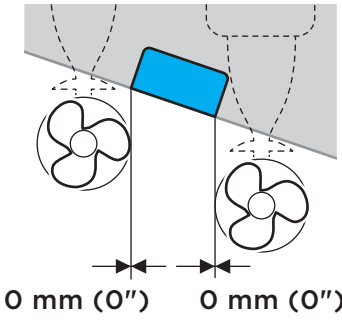
INTERCEPTOR

PROPELLER CLEARANCE

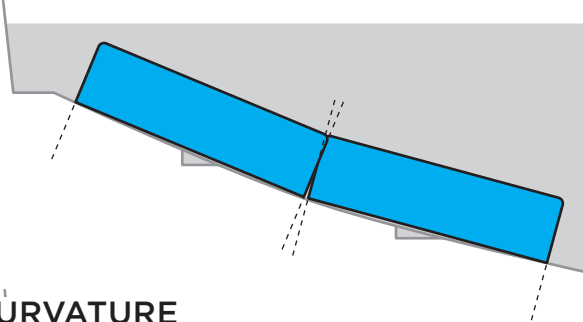
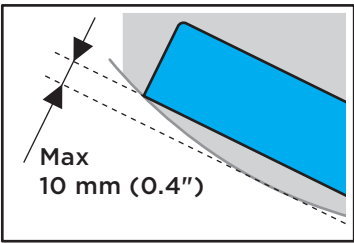
If the boat has an outboard engine or sterndrive, the interceptors must be mounted with clearance to the propeller(s).



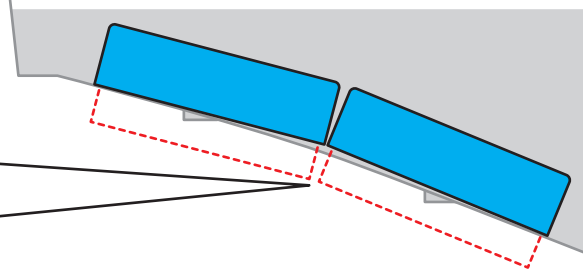
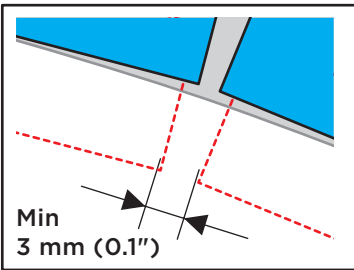
NOTE!
Optional intermediate
Series S interceptor
IT300-S INTER



CONVEX BOTTOM CURVATURE



CONCAVE BOTTOM CURVATURE



OPTIONAL



400-E Round model
for convex hulls



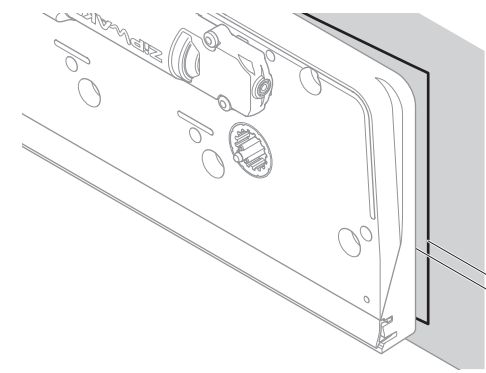
600-E Tunnel models
for propeller tunnels

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.

Max 2 mm (0.08")
between parallel planes

DRILLING TEMPLATE

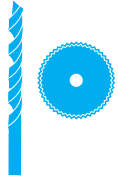
Start mounting the interceptors as far outward as possible, although well inside the transom. Continue inwards when installing multiple interceptors.

Convex bottom: Place two straightedges under the bottom parallel to the boat's centerline. When placed on the straight-edges and pressed against the transom, the template will have the right position. Fix the template on the transom with tape.

Concave bottom: Place one straightedge at the interceptor center and use one end of the template to find its right center position.

NOTE! Only if a concealed thru-hull fitting will be used

Option 1: 1. Pilot hole $\varnothing$ 3 mm (1/8") 2. Hole saw $\varnothing$ 19 mm (3/4")	Option 2 (threaded hole): 1. Pilot hole $\varnothing$ 3 mm (1/8") 2. Hole saw $\varnothing$ 16 mm (5/8") 3. Tap M18 x 2.5
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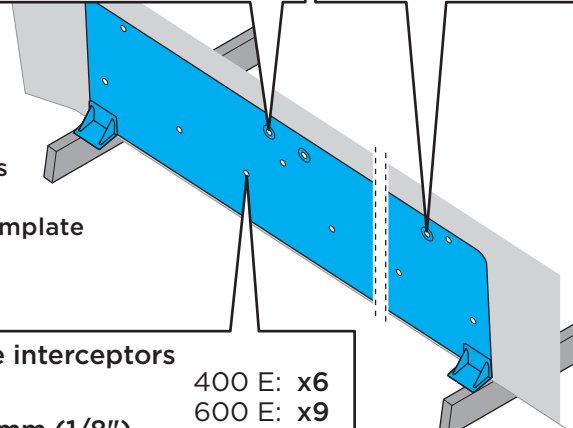
IT600/800/1000-E are dual-servo interceptors (2 holes)

IT400-E is a single-servo interceptor (1 hole)

1 Drill pilot holes

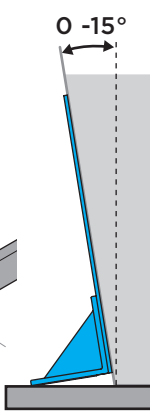
2 Remove the template

3 Drill holes



Drill holes for the interceptors

	400 E: x6 600 E: x9 800 E: x13 1000 E: x17
1. Pilot hole $\varnothing$ 3 mm (1/8")	
2. Drill $\varnothing$ 6.5 mm (1/4")	

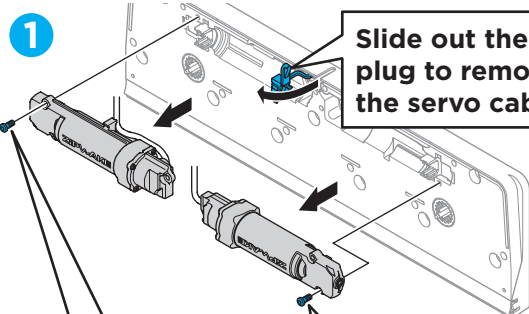


INTERCEPTOR

3 INSTALL THE BACK PLATES

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

1

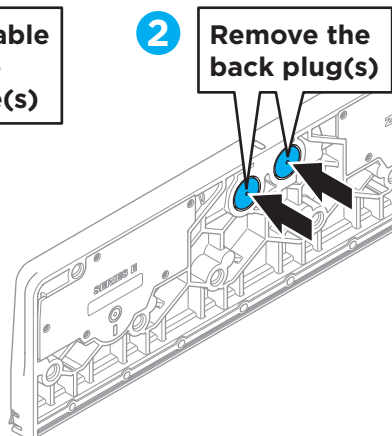


Slide out the cable plug to remove the servo cable(s)

Remove Servo unit(s):
T25 (PT 5.0x18)
(x3)



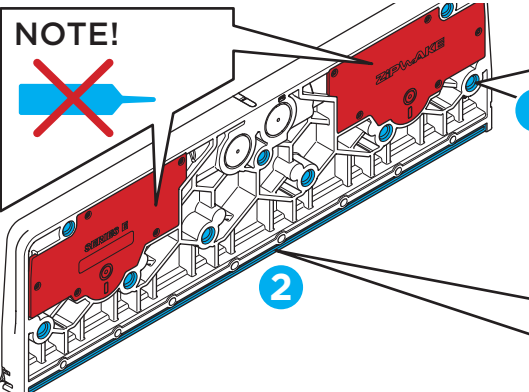
2



Remove the back plug(s)

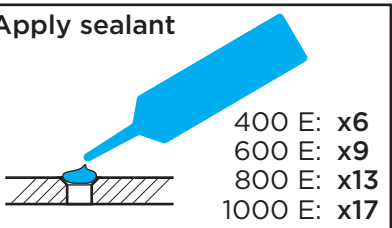
B. MOUNT THE BACK PLATE

NOTE!



1

Apply sealant



400 E: x6
600 E: x9
800 E: x13
1000 E: x17

GRP hull: T40 (ST 8.0x45)

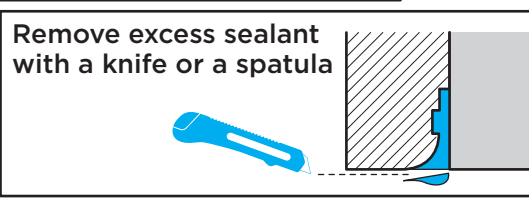


400 E: x6
600 E: x9
800 E: x13
1000 E: x17

Metal hull: Machine screws
(not included)

3

Remove excess sealant
with a knife or a spatula



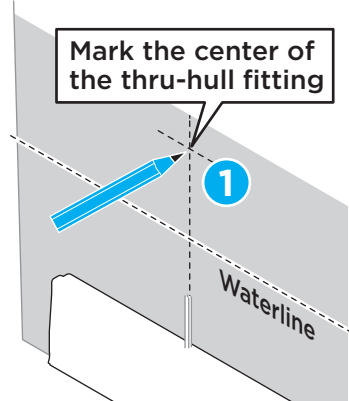
4

INTERCEPTOR

4A INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE

1

Mark the center of the thru-hull fitting

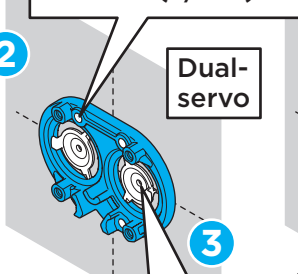


2

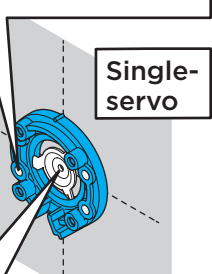
Drill holes (x4) for the cover base
Use the cover base as a drill template

Ø 4 mm (5/32")

Dual-servo



Single-servo

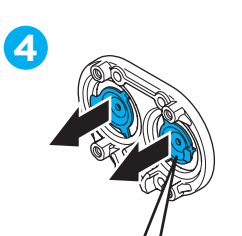


Drill holes for thru-hull fittings (1 or 2 holes)

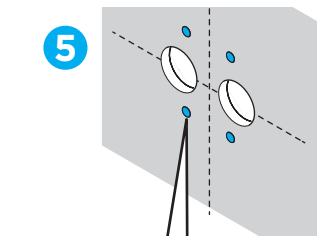
Option 1:	Option 2 (threaded hole):
1. Pilot hole Ø 3 mm (1/8")	1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 19 mm (3/4")	2. Hole saw Ø 16 mm (5/8")
	3. Tap M18 x 2.5



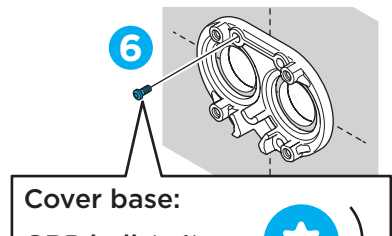
4



5



6



Snapp off the thru-hull center piece(s)



Apply sealant (x4)



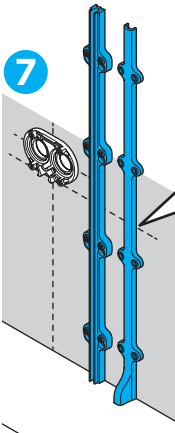
Cover base:

GRP hull (x4): T25 (ST 4.8x25)

Metal hull: Machine screws (not included)

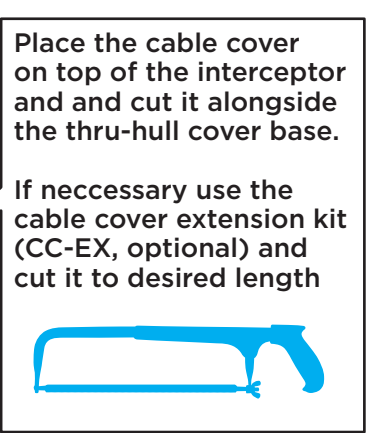


7

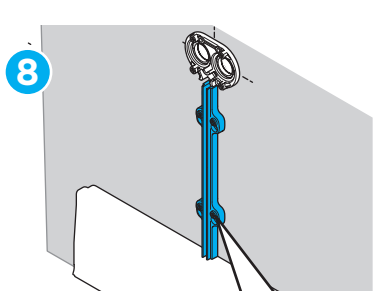


Place the cable cover on top of the interceptor and and cut it alongside the thru-hull cover base.

If necessary use the cable cover extension kit (CC-EX, optional) and cut it to desired length



8

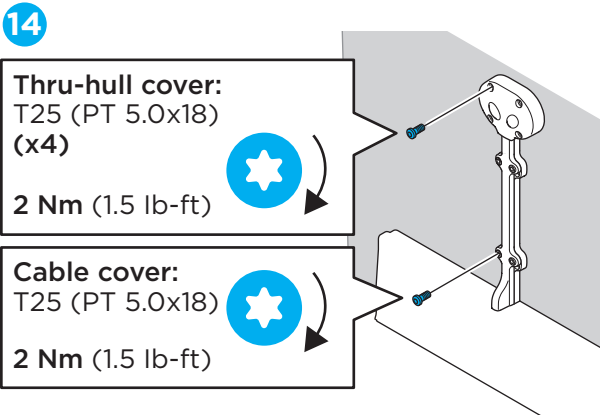
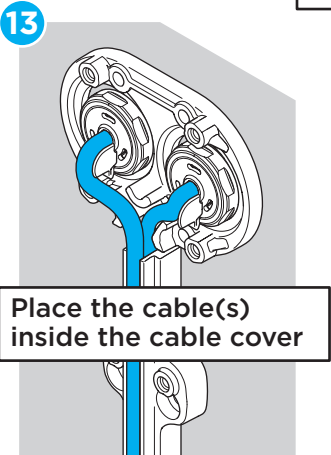
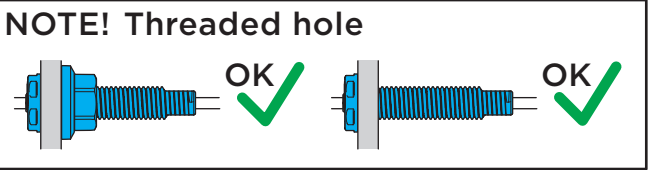
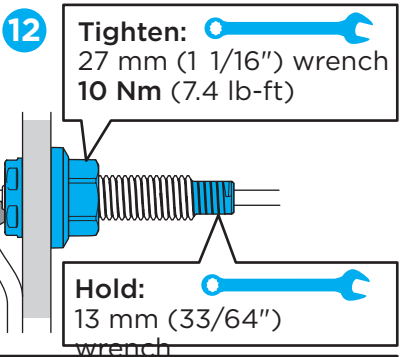
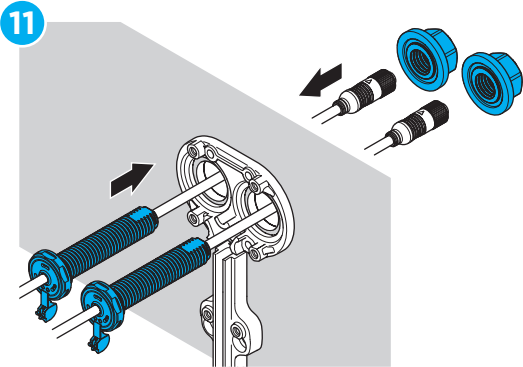
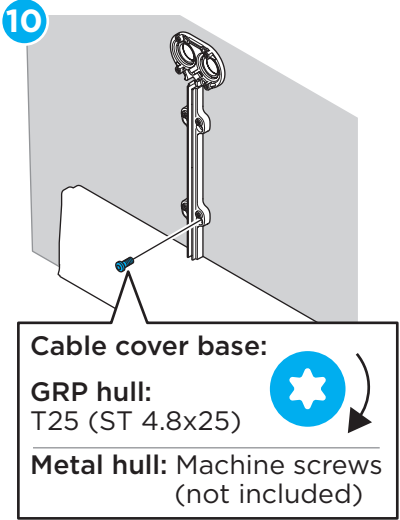
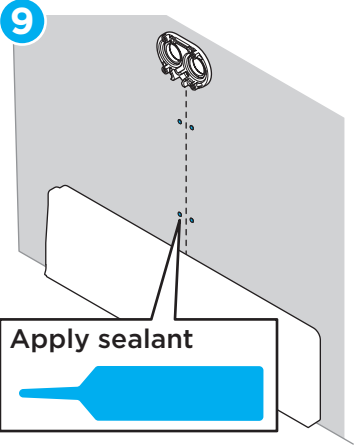


Drill holes for the cover base
Use the cover base as a drill template

Ø 4 mm (5/32")



INTERCEPTOR



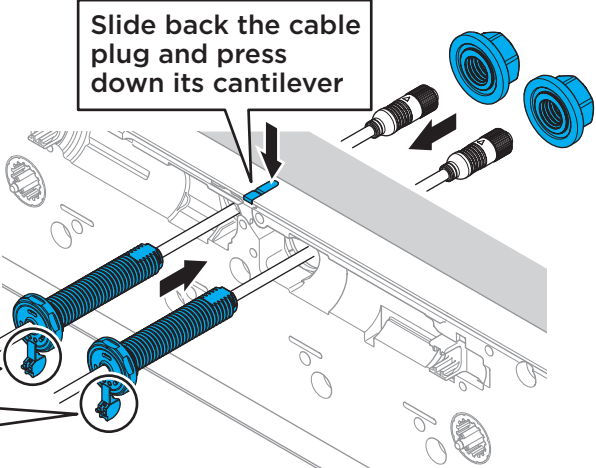
INTERCEPTOR

4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

1

Slide back the cable plug and press down its cantilever

Fit the cable clip in the back plate or cut it off

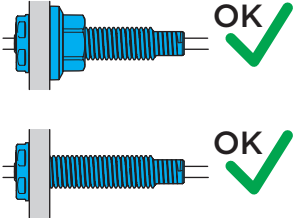


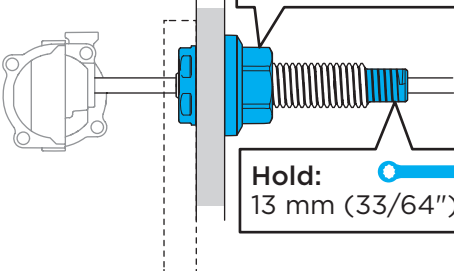
2

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

Hold:  13 mm (33/64") wrench

NOTE!
Threaded hole





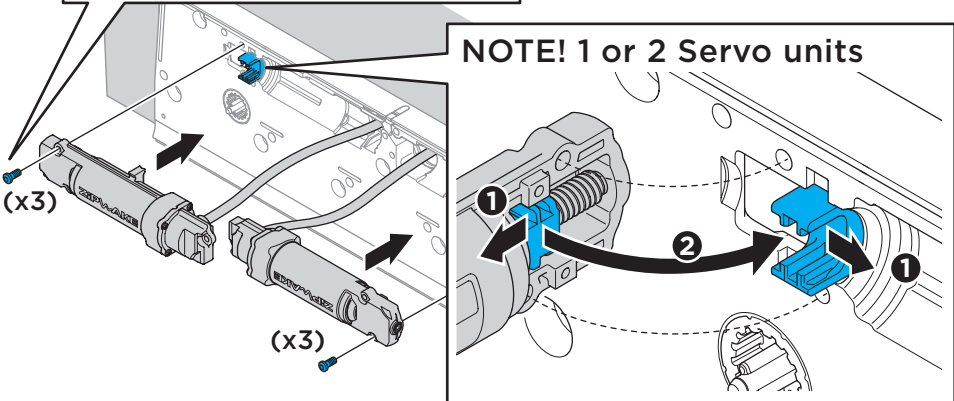
3

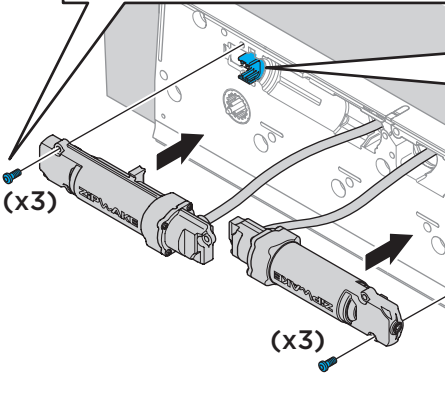
Servo unit(s): T25 (PT 5.0x18)

 2 Nm (1.5 lb-ft)



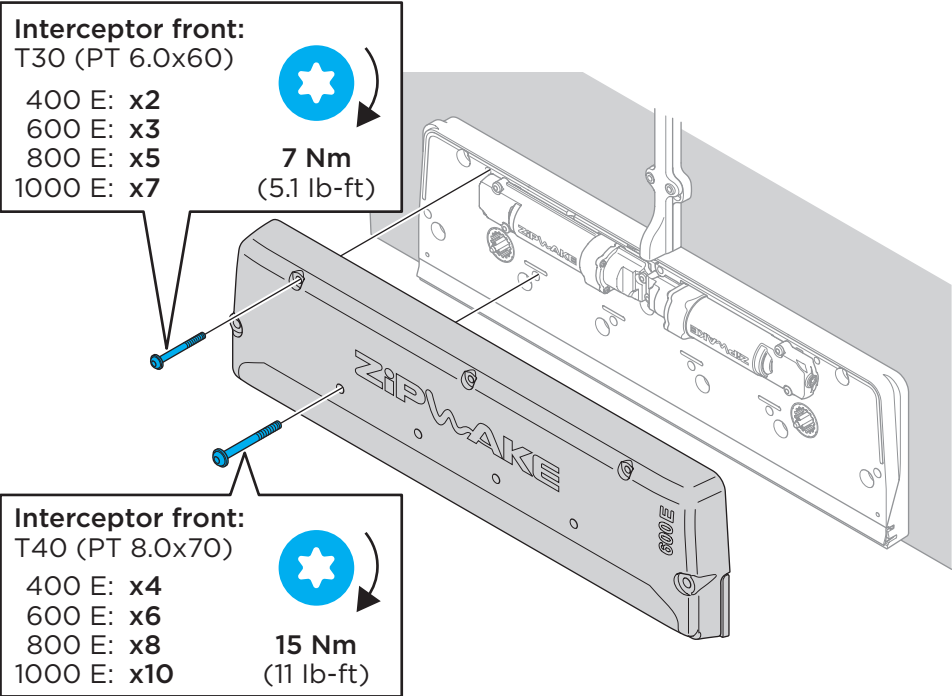
NOTE! 1 or 2 Servo units



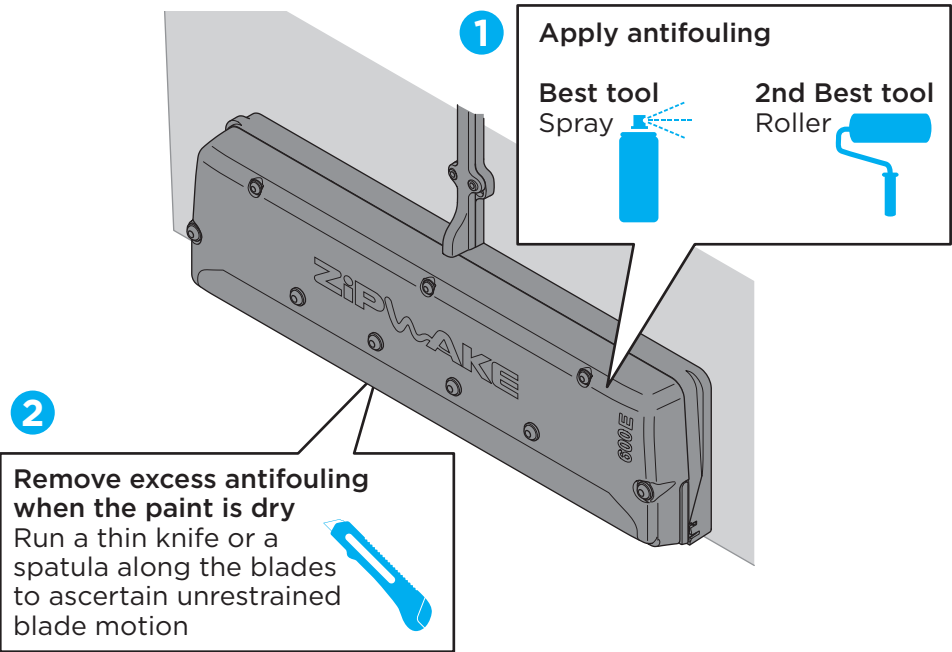


INTERCEPTOR

5 INSTALL THE INTERCEPTOR FRONTS



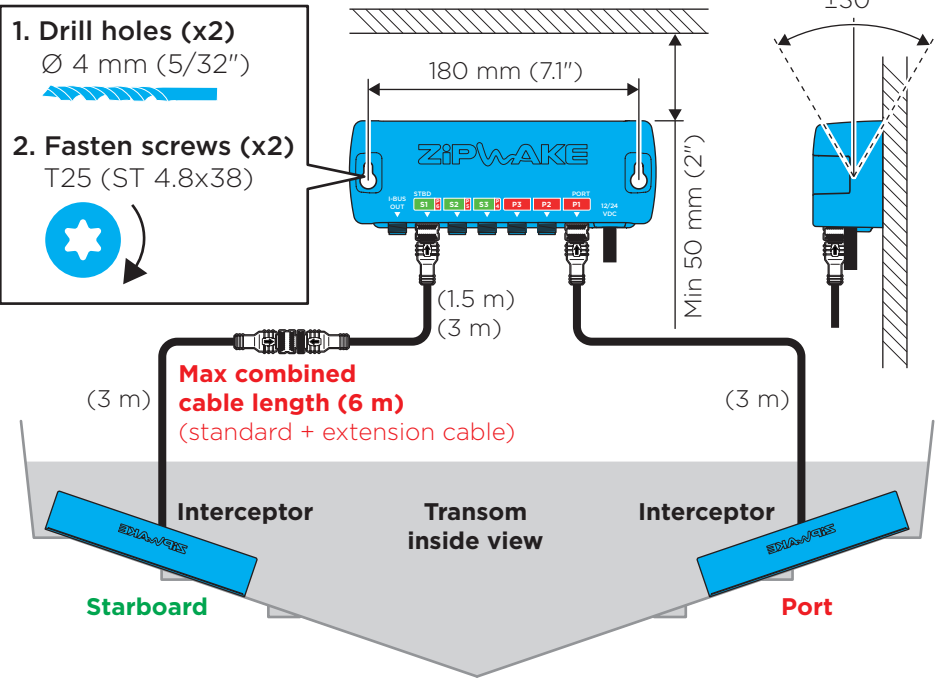
6 PAINT THE INTERCEPTORS WITH ANTIFOULING



DISTRIBUTION UNIT

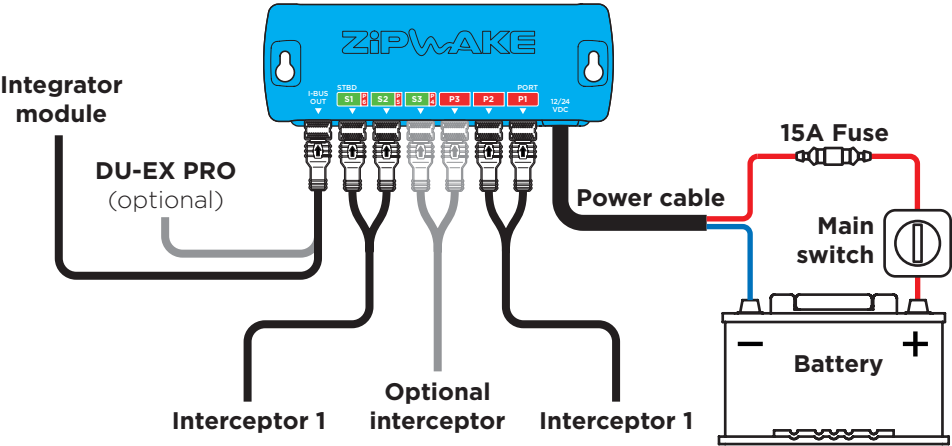
1 MOUNT THE DISTRIBUTION UNIT

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! Detailed wiring diagram is available at the end of this folder.

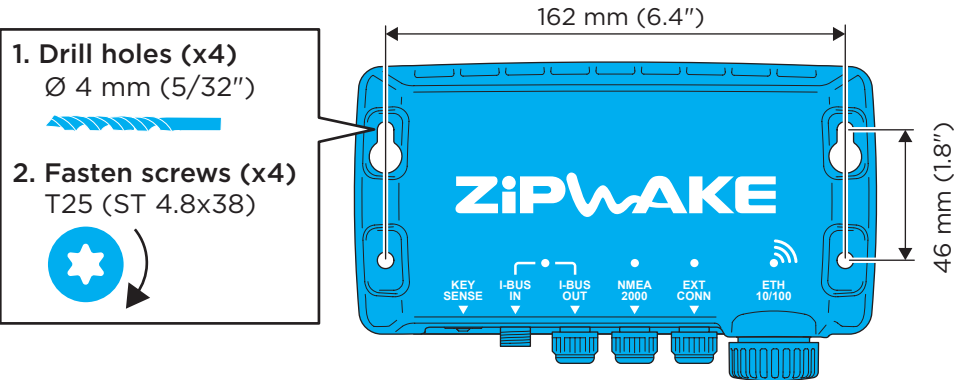


INTEGRATOR MODULE —

1 MOUNT THE INTEGRATOR MODULE

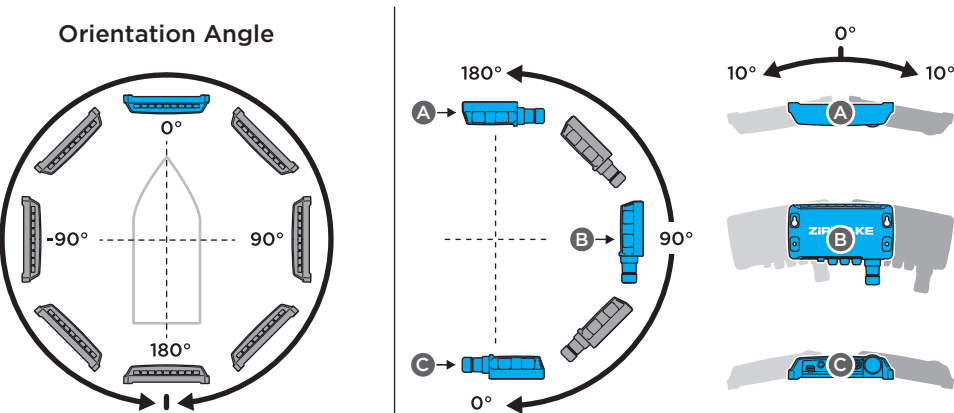
Mount the integrator module on a rigid surface where it is easy to connect it to the distribution unit and other equipment e.g. under the dash or another suitable compartment. If the system will be used with mobile devices, mount the integrator module for maximum signal strength.

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



MOUNTING RESTRICTIONS

Mount the integrator module within the angles shown below.

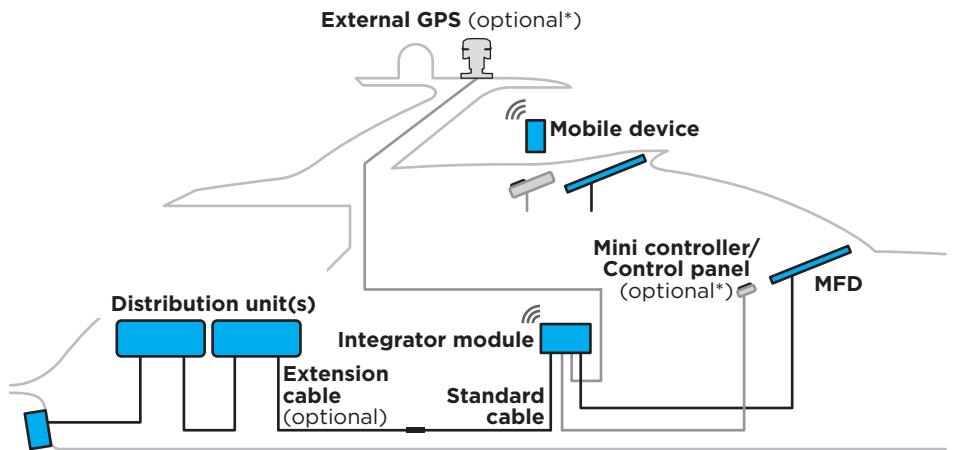


NOTE!
Make sure the integrator module orientation angle (mounting angle relative the boat's forward direction) is set as accurately as possible during initial start-up.

INTEGRATOR MODULE —

2 CONNECT THE INTEGRATOR MODULE

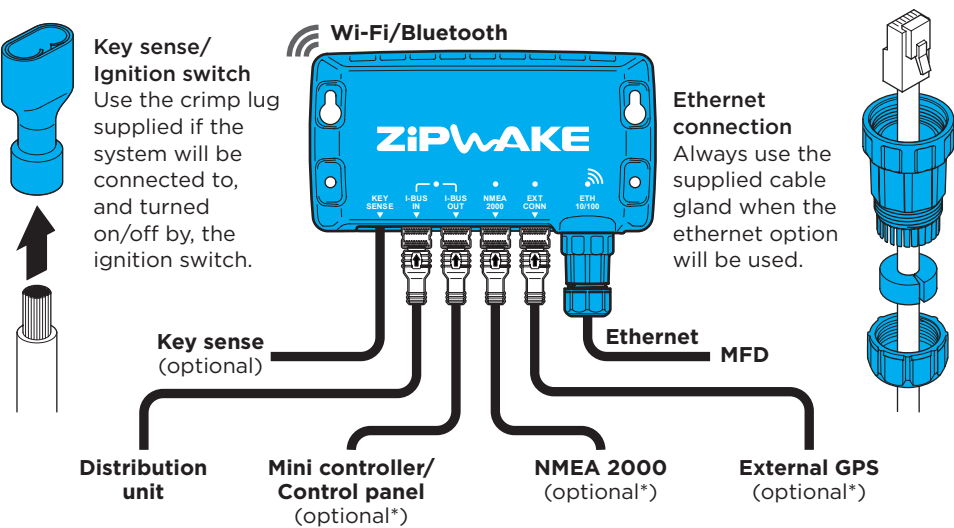
Route the cables between the integrator module, the distribution unit and optional multifunction display (MFD) and/or other equipment. Use optional extension cables if necessary.



With the integrator module connected, the system can be controlled from one or several devices e.g. an MFD, a mobile device, a Zipwake mini controller or a Zipwake control panel.

NOTE!

Detailed wiring diagram is available at the end of this folder.



*** IMPORTANT** The integrator module requires at least one external GPS signal via NMEA 2000, a Zipwake external GPS or a Zipwake control panel.

INTEGRATOR MODULE —

3 INITIAL START

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

SETTING UP THE SYSTEM

MULTIFUNCTION DISPLAY (MFD)

The Zipwake application automatically appears on a connected (compatible) MFD. Refer to the MFD manufacturer or manual for detailed information on compatible models and how to launch integration applications such as the Zipwake Integrator Module interface on your MFD model. At first start-up, follow the steps on the MFD to complete system installation.

MOBILE DEVICE

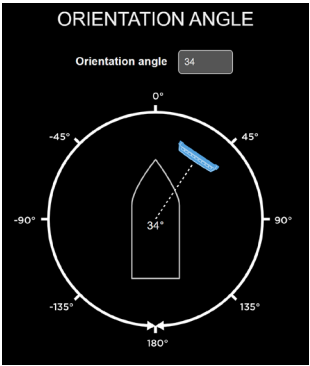
Scan the QR-code on the integrator module label **1** to connect to the Wi-Fi network (also available from the System Information page when the Zipwake application is installed). Scan the QR-code from integrator module label **2** to launch the Zipwake application (APP) and add it to the device start screen for future use.



NOTE!

Make sure the integrator module orientation angle (mounting angle relative the boat’s forward direction) is set as accurately as possible within $\pm 5^\circ$.

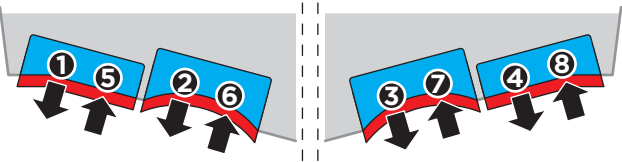
If the orientation angle is difficult to measure or estimate, use a compass or a mobile device compass application to determine the angle.



INTERCEPTOR CHECK

Carry out an Interceptor Check to verify function immediately after installation and before launching the boat. Repeat this before every launch.

The check repeats a 5 stroke sequence, where each interceptor blade is extended, one by one, from port to starboard and then retracted in the same order. Visually confirm that the interceptors move accordingly during the check.



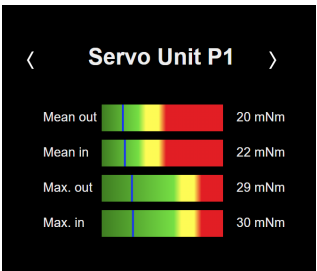
All readings must be green!

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.

IMPORTANT

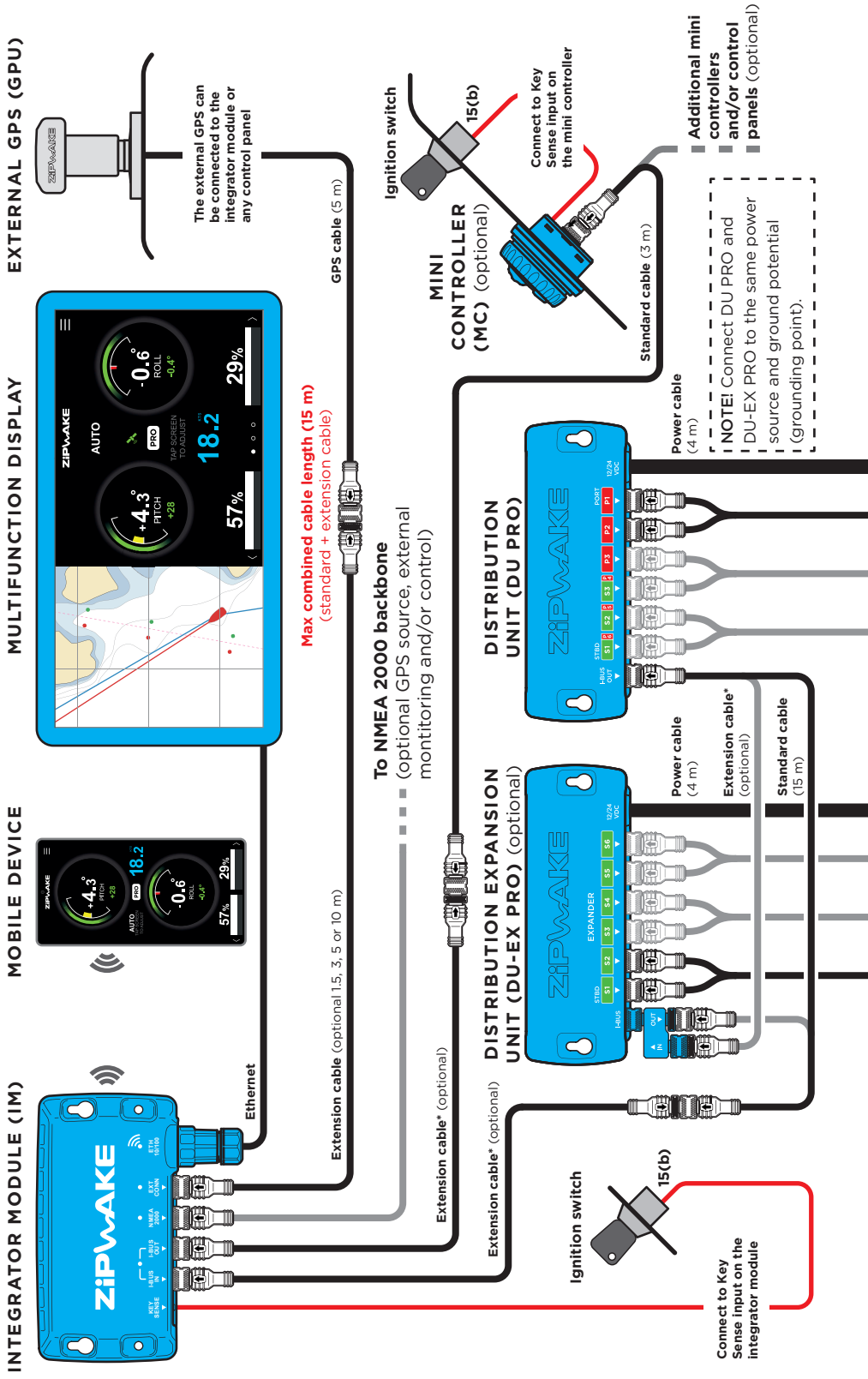
Always use the controls to move the Interceptor blades. Never try to force the Interceptor blades by hand.



WIRING DIAGRAM

ACCESSORIES

Model	Part No.	Description
MC	2012401	MINI CONTROLLER WITH STANDARD CABLE 3 M
CP PRO	2022032	CONTROL PANEL PRO WITH STANDARD CABLE 7 M
DU-EX PRO	2022034	DISTRIBUTION EXPANSION UNIT PRO WITH POWER CABLE 4 M
IT400-E PRO	2022215	INTERCEPTOR 400 E PRO WITH CABLE 3 M & CABLE COVER
IT600-E PRO	2022018	INTERCEPTOR 600 E PRO WITH CABLE 3 M & CABLE COVER
IT800-E PRO	2022019	INTERCEPTOR 800 E PRO WITH CABLE 3 M & CABLE COVER
IT1000-E PRO	2022020	INTERCEPTOR 1000 E PRO WITH CABLE 3 M & CABLE COVER
IT600-E PRO TUNNEL R500	2022021	INTERCEPTOR 600 E PRO TUNNEL R500 WITH CABLE 3 M & CABLE COVER
IT600-E PRO TUNNEL R600	2022022	INTERCEPTOR 600 E PRO TUNNEL R600 WITH CABLE 3 M & CABLE COVER
IT600-E PRO TUNNEL R800	2022023	INTERCEPTOR 600 E PRO TUNNEL R800 WITH CABLE 3 M & CABLE COVER
IT400-E PRO ROUND R1000	2022491	INTERCEPTOR 400 E PRO ROUND R1000 WITH CABLE 3 M & CABLE COVER
IT400-E PRO CHINE PORT	2022216	INTERCEPTOR 400 E PRO CHINE PORT SIDE WITH CABLE 3 M & CABLE COVER
IT400-E PRO CHINE STBD	2022217	INTERCEPTOR 400 E PRO CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVER
IT600-E PRO CHINE PORT	2022024	INTERCEPTOR 600 E PRO CHINE PORT SIDE WITH CABLE 3 M & CABLE COVER
IT600-E PRO CHINE STBD	2022025	INTERCEPTOR 600 E PRO CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVER
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-EX	2012036	CABLE COVER EXTENSION E 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



NOTE!
Transom inside view

Extension cable
(optional 1.5 or 3 m)

Max combined cable length (6 m)
(standard + extension cable)



STARBOARD

Starboard Interceptor 1

**Starboard
Interceptor 2**

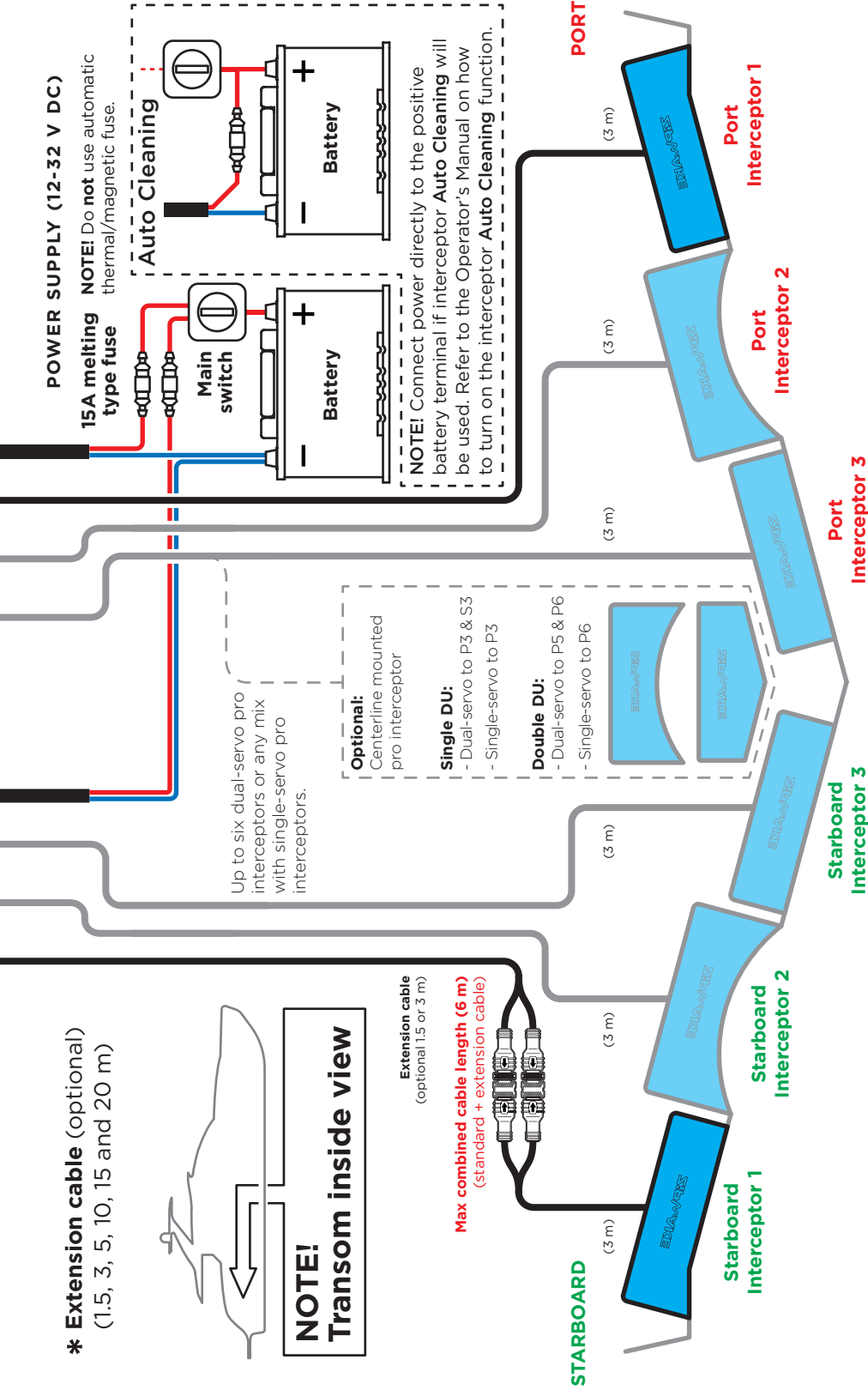
Starboard Interceptor 3

Port Interceptor 3

Port Interceptor 2

Port Interceptor 1

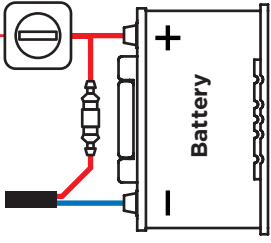
PORT



POWER SUPPLY (12-32 V DC)

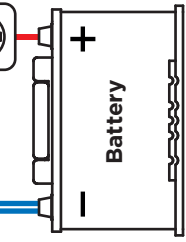
15A melting type fuse **NOTE!** Do **not** use automatic thermal/magnetic fuse.

Auto Cleaning



Ba

Main switch



Bat

NOTE! Connect power directly to the positive battery terminal if interceptor **Auto Cleaning** will be used. Refer to the Operator's Manual on how to turn on the interceptor **Auto Cleaning** function.

Optional:

Centerline mounted
pro interceptor

Single DU:

- Dual-servo to P3 & S3
- Single-servo to P3

Double DU:

- Dual-servo to P5 & P6
- Single-servo to P6

Up to six dual-servo pro interceptors or any mix with single-servo pro interceptors.

(3 m)

(3 m)

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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

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CHOOSE COMFORT. ENJOY PERFORMANCE.