



ZiPwAKE Series E Dynamic Trim Control System Installation Guide

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TOOLS

- Drill bits
 - Ø 2.5 mm (3/32")
 - Ø 3 mm (1/8")
 - Ø 4 mm (5/32")
 - Ø 5 mm (3/16")
 - Ø 6.5 mm (1/4")



- Hole saw
 - Ø 19 mm (3/4")



- Screw bits

T10

T20

T25

T30

T40



- Power drill



- Sealant



- Flat screwdriver



- Bits screwdriver



- Wrench

13 mm (33/64")

27 mm (1 1/16")



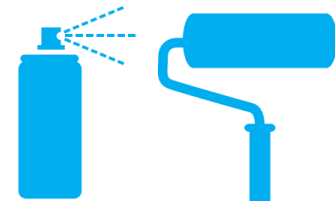
- Utility knife



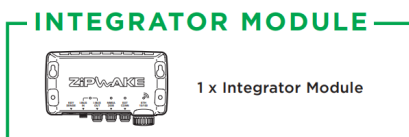
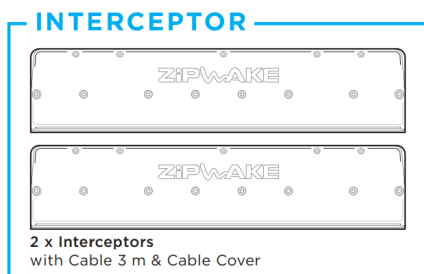
- Hacksaw



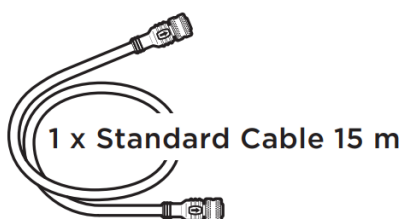
- Antifouling



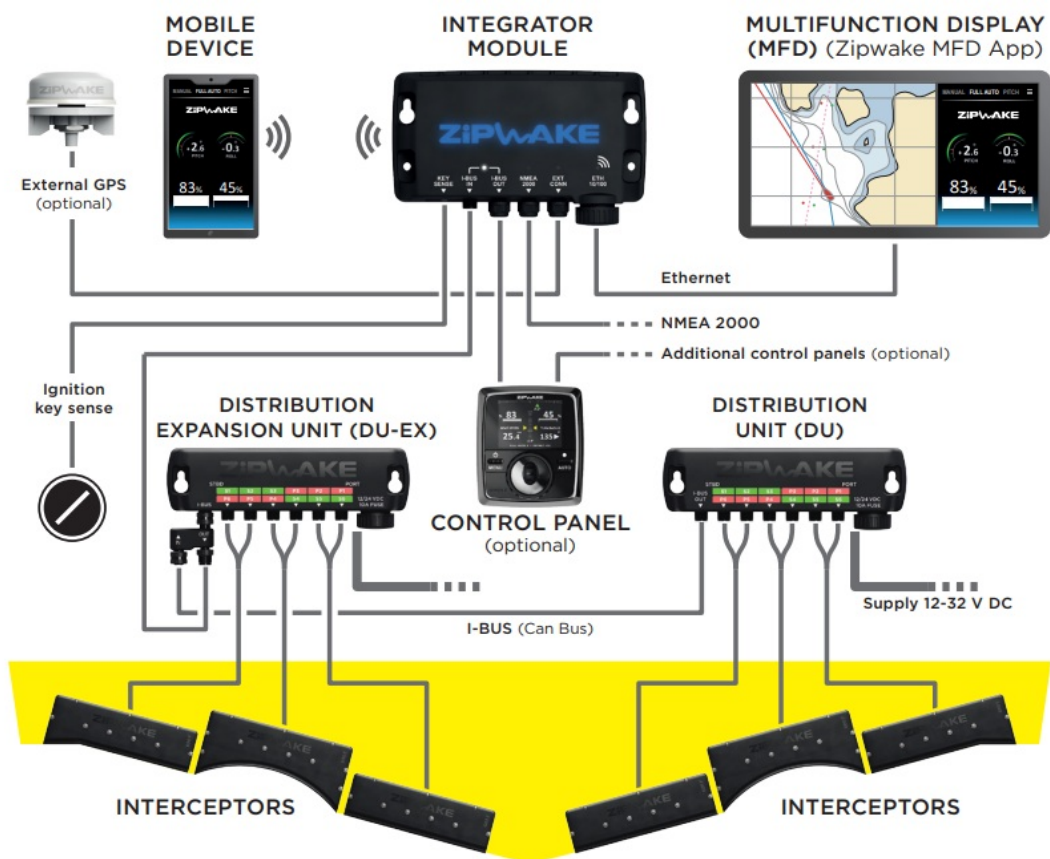
KIT BOX CONTENTS



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



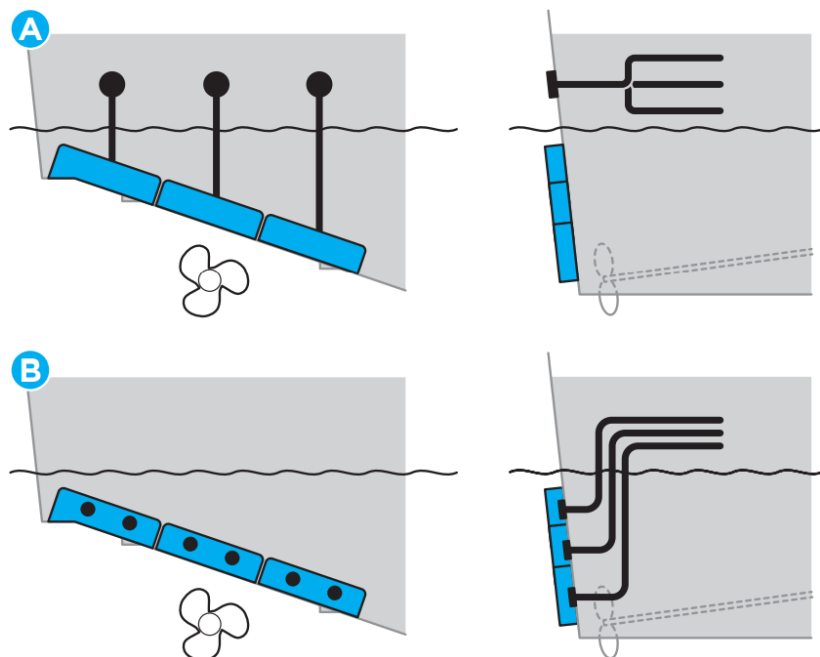
SYSTEM OVERVIEW



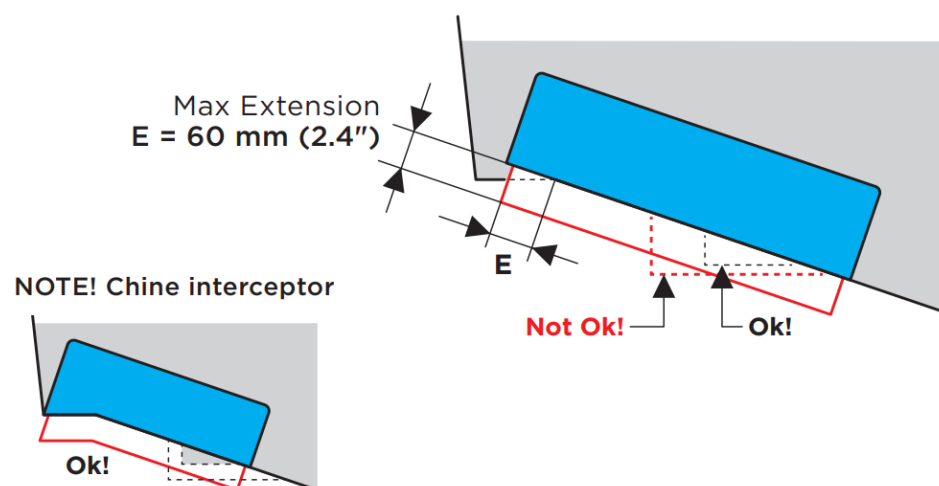
MOUNTING OPTIONS

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)**.



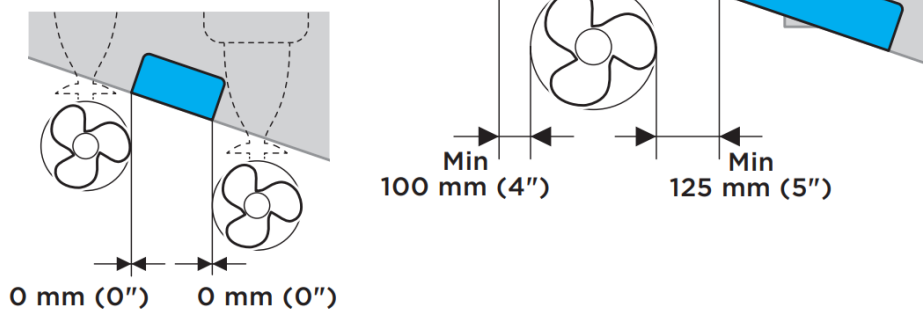
ALLOWED SPRAY RAIL OVERLAP



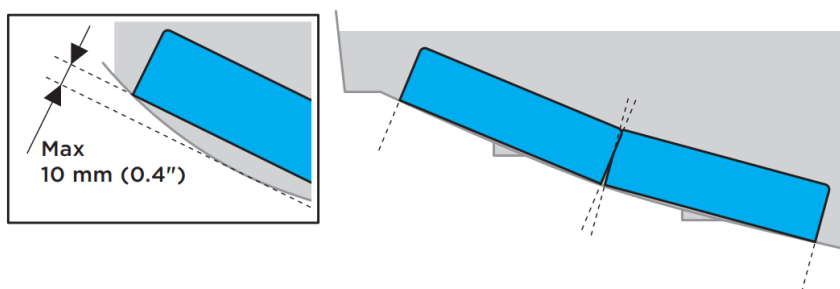
PROPELLER CLEARANCE

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

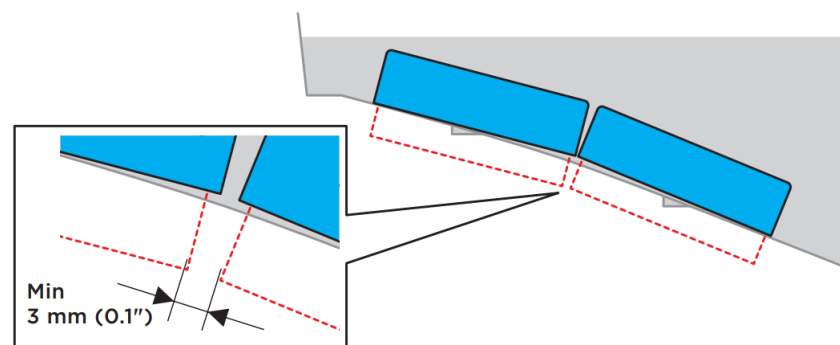
NOTE!
Optional intermediate Series S
interceptor IT300-S INTER



CONVEX BOTTOM CURVATURE

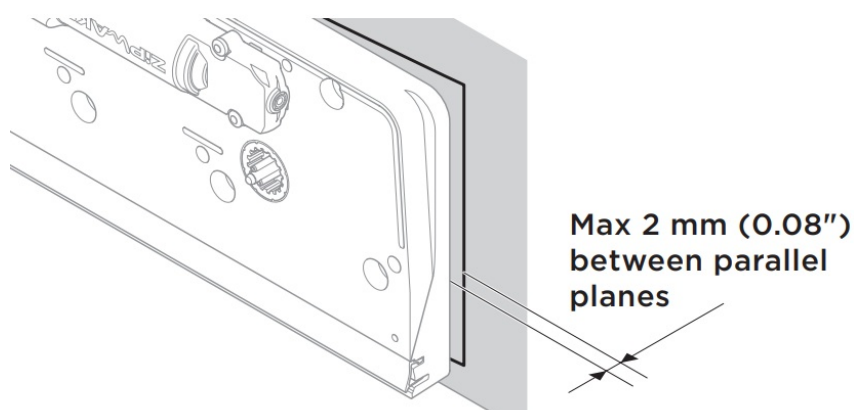


CONCAVE BOTTOM CURVATURE



PREPARE THE TRANSOM

ENSURE A FLAT SURFACE FOR EACH INTERCEPTOR



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

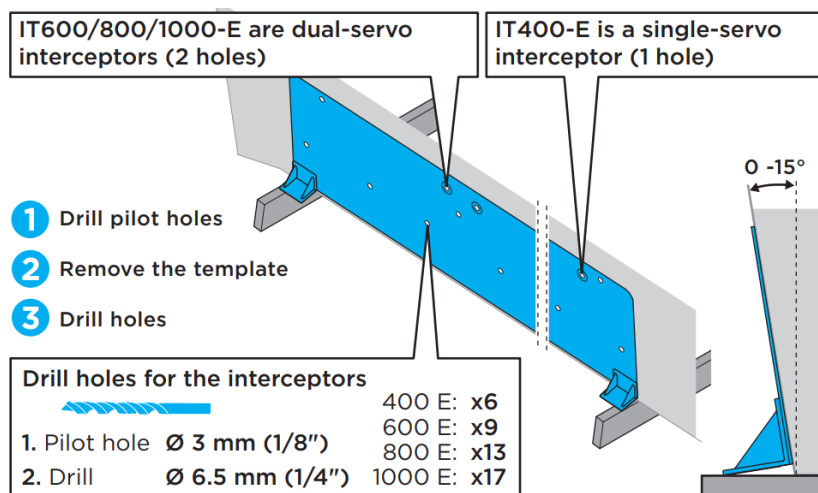


Option 1:

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

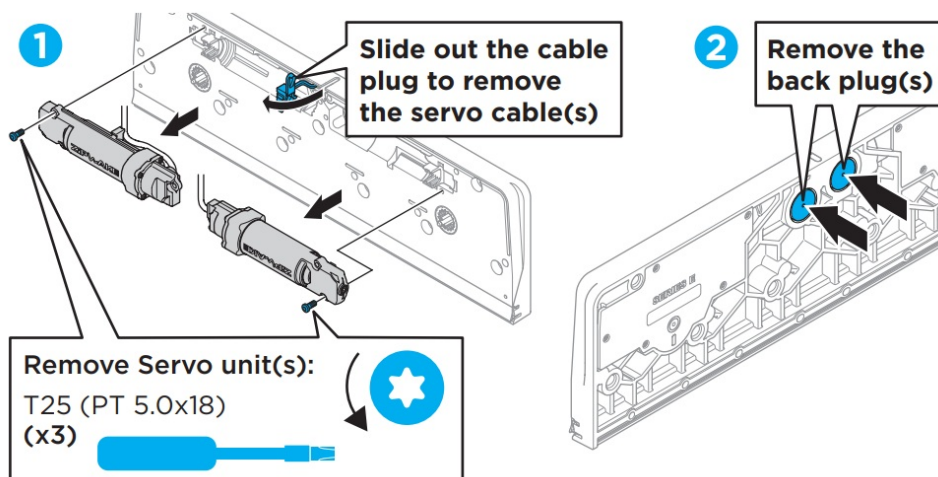
Option 2 (threaded hole):

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

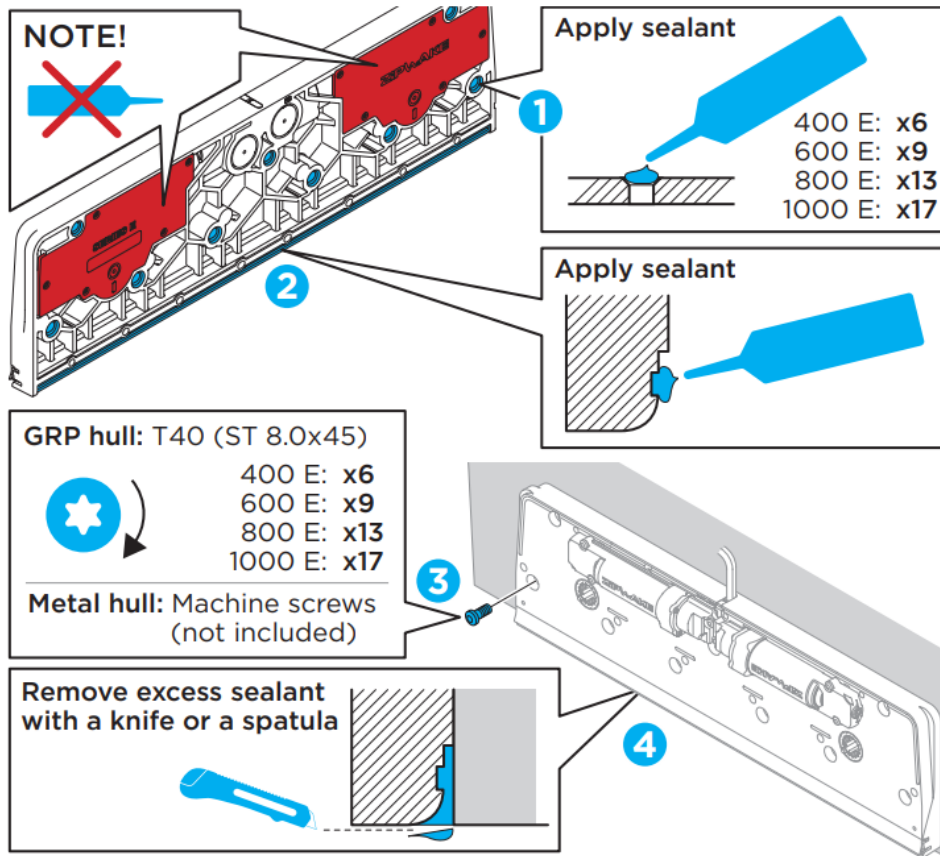


INSTALL THE BACK PLATES

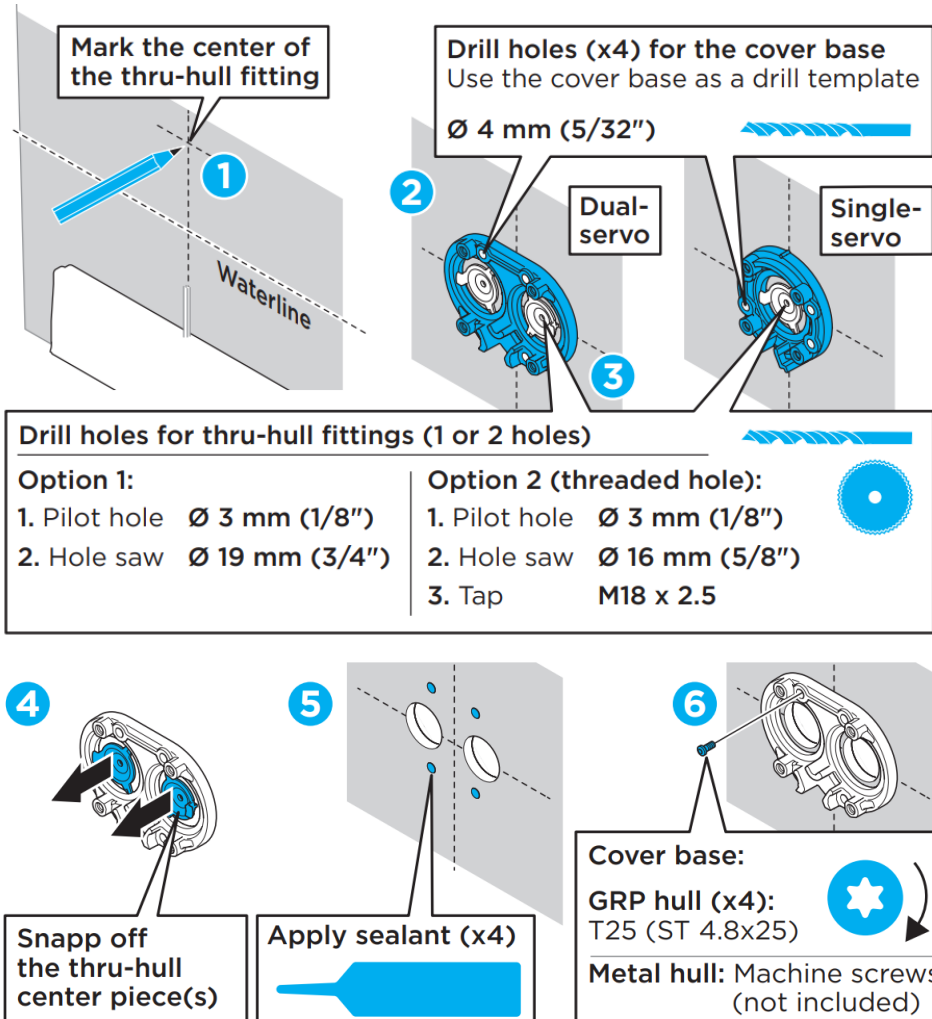
A. FOR THRU-HULL FITTINGS ABOVE THE WATERLINE GO STRAIGHT TO STEP B

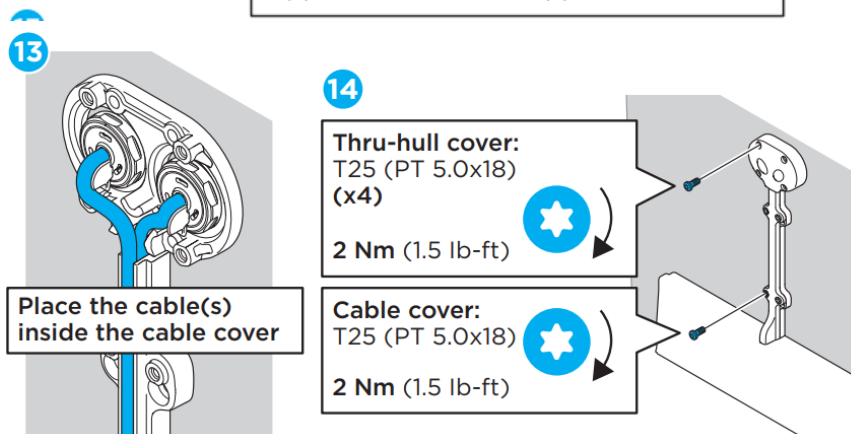
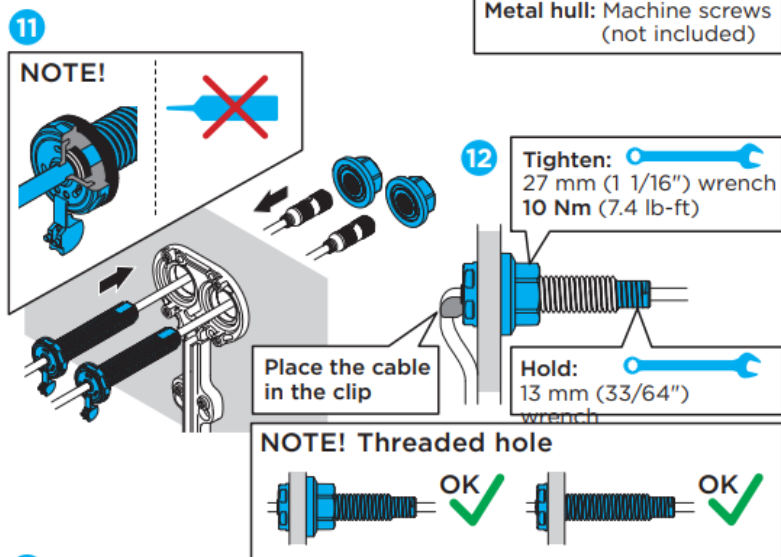
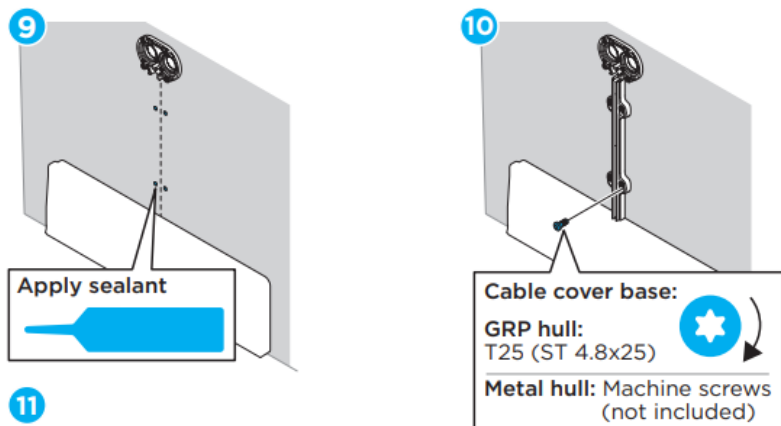
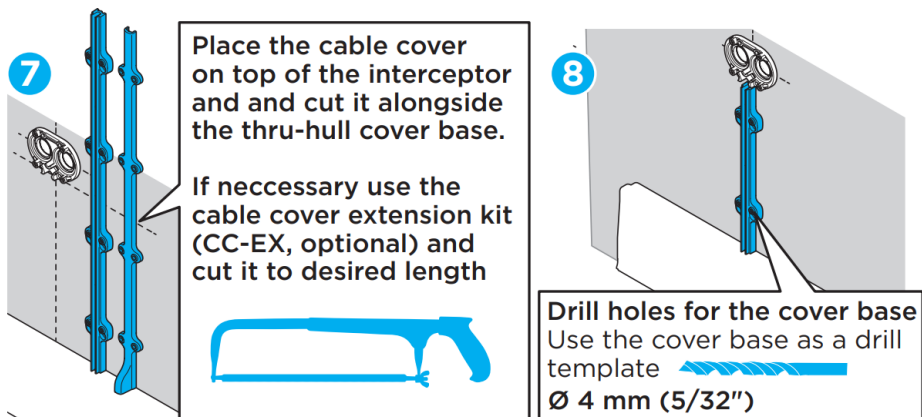


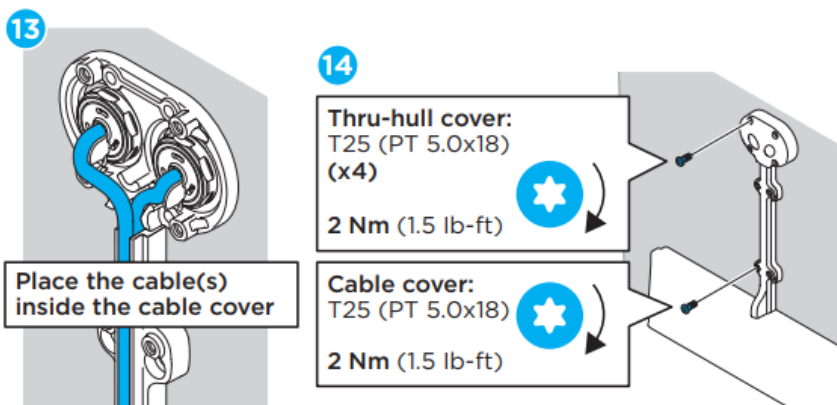
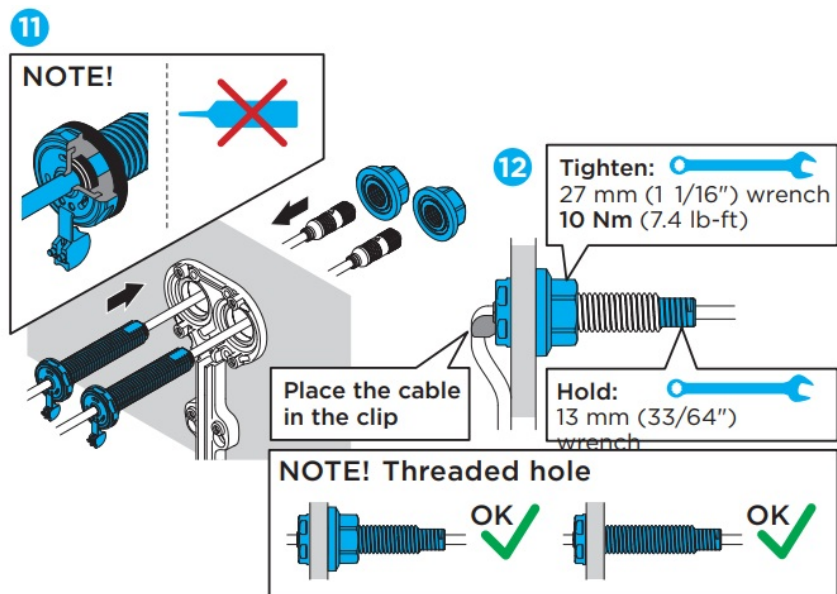
B. MOUNT THE BACK PLATE



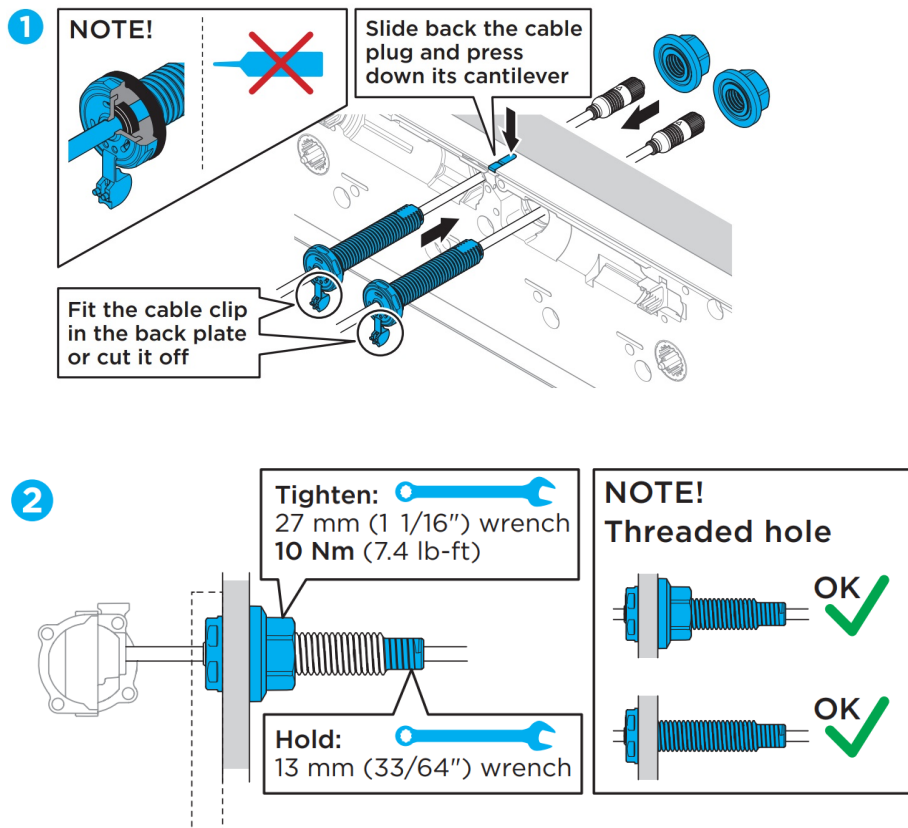
INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE

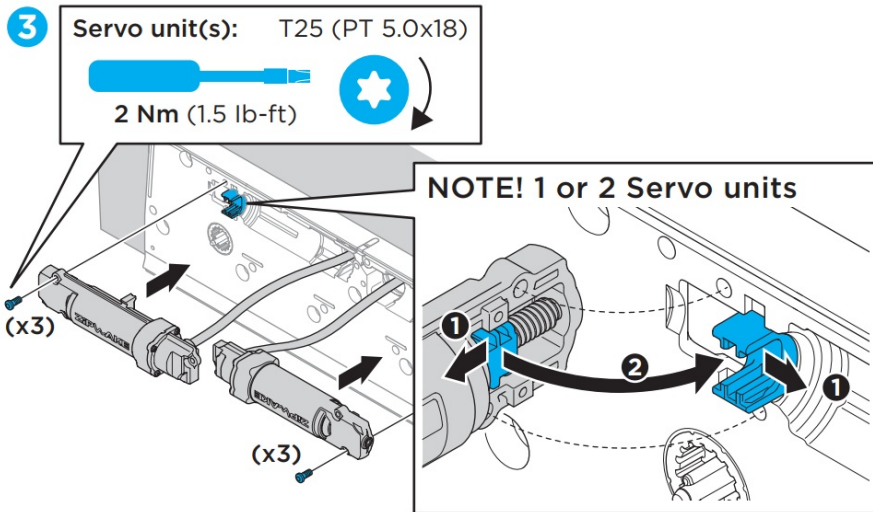




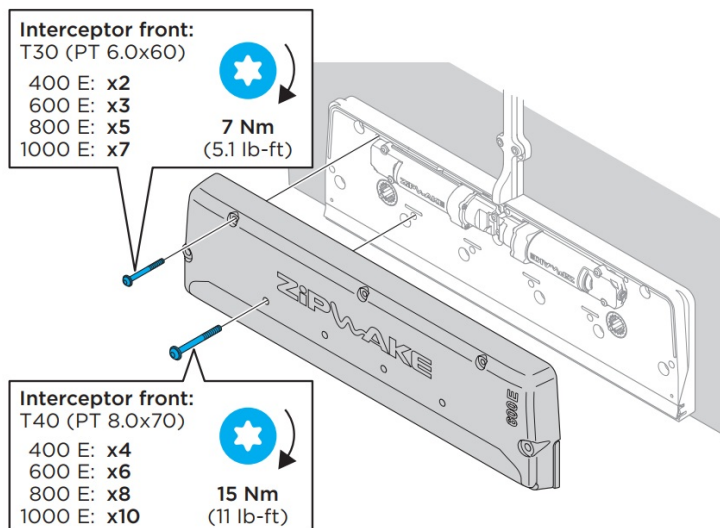


INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

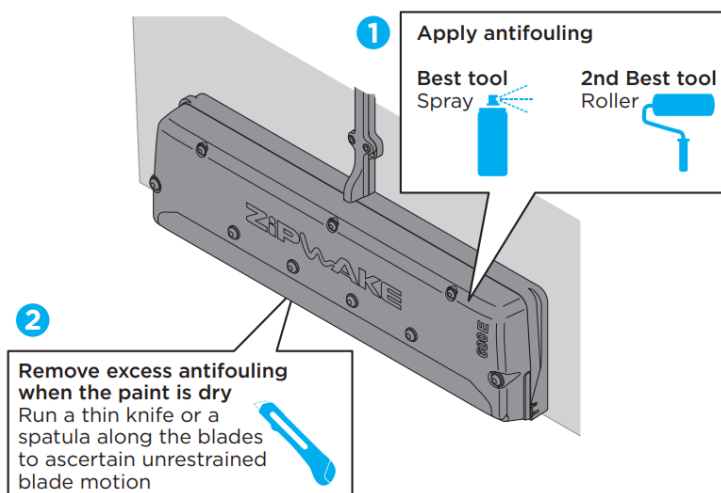




INSTALL THE INTERCEPTOR FRONTS



PAINT THE INTERCEPTORS WITH ANTIFOULING



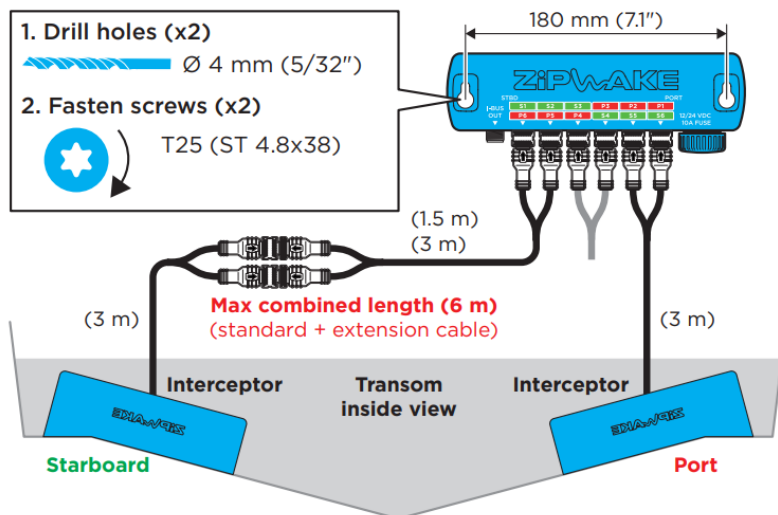
MOUNT THE DISTRIBUTION UNIT

Mount the distribution unit inboard where it is easy to connect it to both interceptors and power supply (battery)

e.g. the engine room or other suitable compartment.

NOTE!

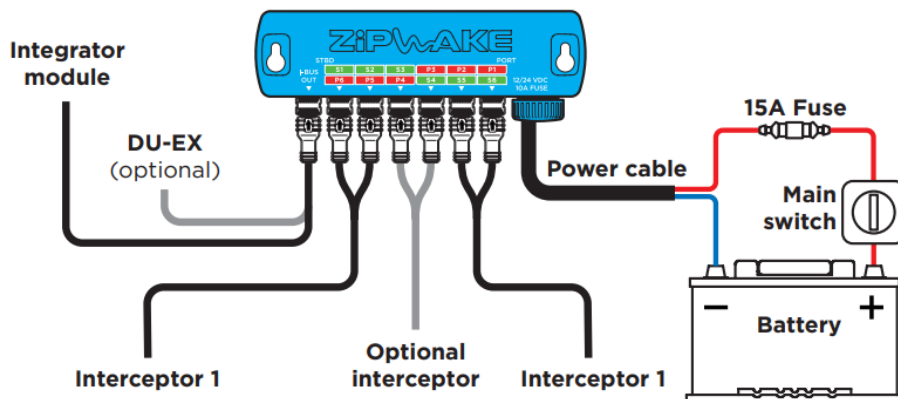
The maximum cable length (including extra cable) from an interceptor to the distribution unit is 6 m (20 ft).



CONNECT THE DISTRIBUTION UNIT

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

MOUNT THE INTEGRATOR MODULE

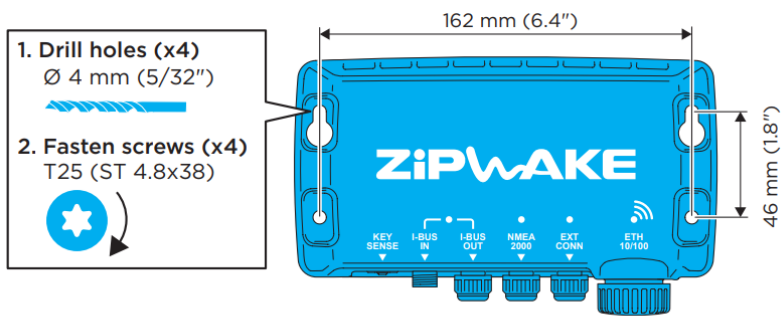


MOUNT THE INTEGRATOR MODULE

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.

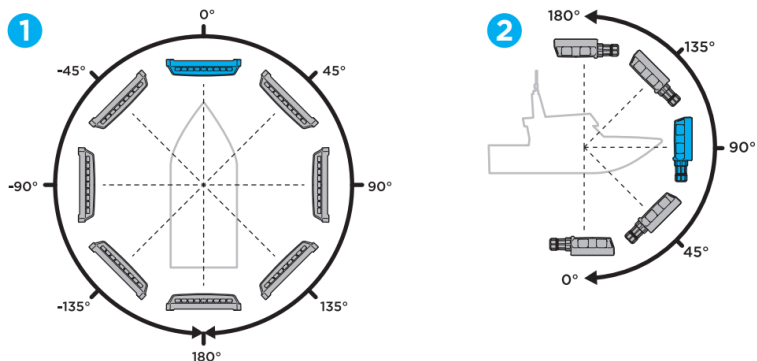
NOTE!

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



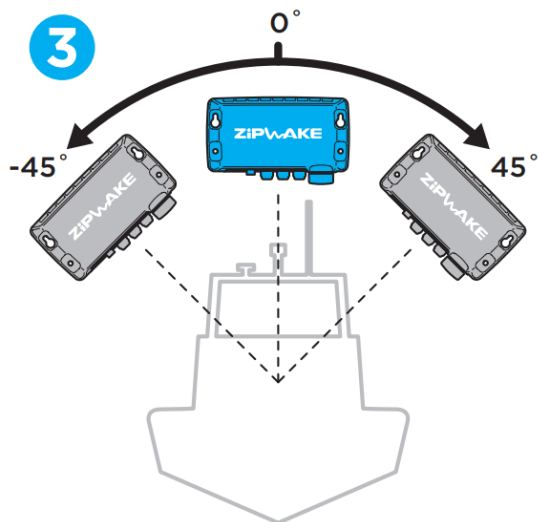
Mounting restrictions

Mount the integrator module within the angles shown in figures 1-3.



NOTE!

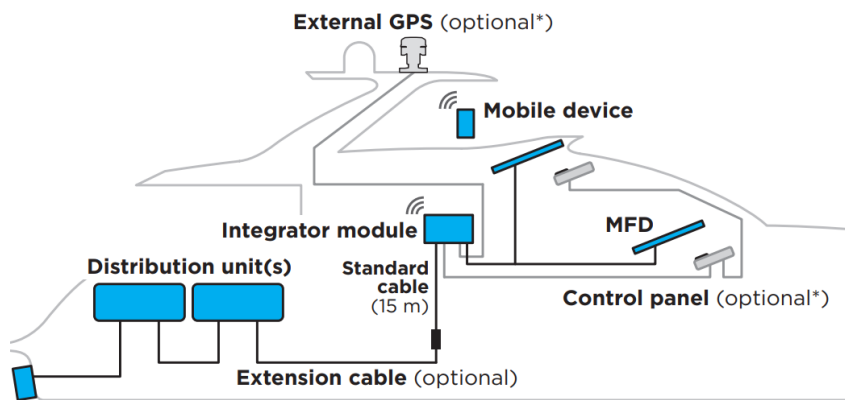
Make sure the integrator module orientation angle (mounting angle relative the boat's forward direction) is set as accurately as possible ($\pm 5^\circ$) during initial start-up.



CONNECT THE INTEGRATOR MODULE

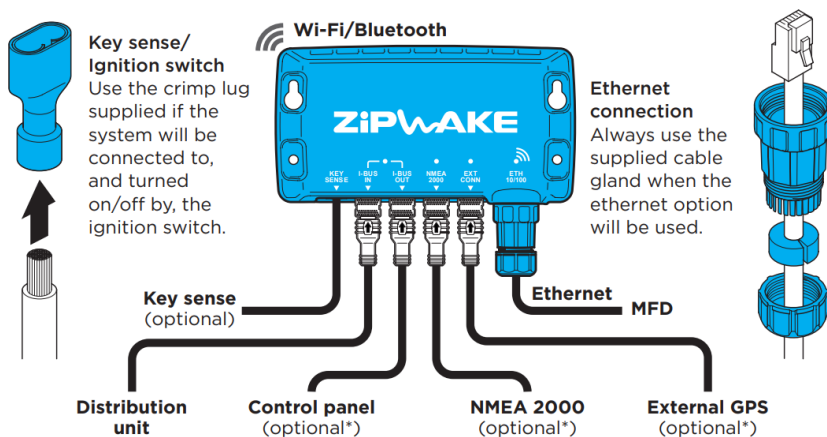
Route the cables between the integrator module, the distribution unit and optional multifunction display (MFD) and/or other equipment. Use optional extension cables if necessary.

External GPS (optional*)



With the integrator module connected, the system can be controlled from one or several sources e.g. an MFD, a mobile device 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 MFD, NMEA 2000, Zipwake control panel or Zipwake external GPS.

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.

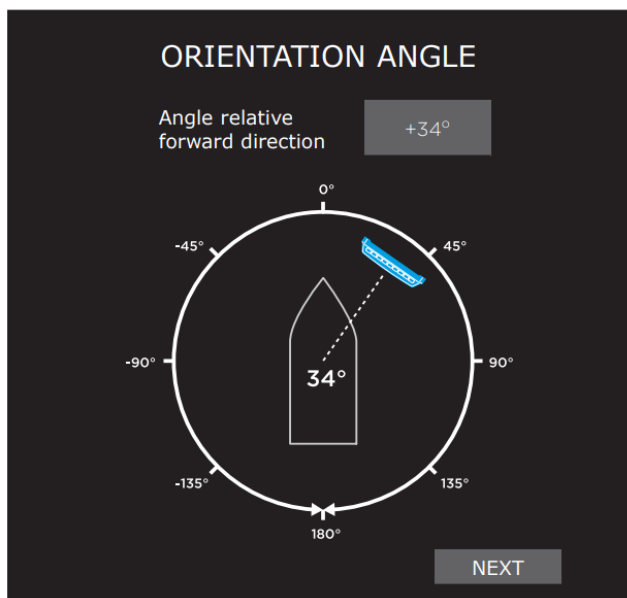
MOBILE DEVICE

Scan the QR-code from integrator module label 1 to connect to the Wi-Fi network. Scan the QR-code from integrator module label 2 to install the Zipwake App and add it to the device start screen for future use. Follow the steps in the app to complete system installation.



NOTE!

Make sure the integrator module orientation angle (mounting angle relative to the boat's forward direction) is set as accurately as possible.

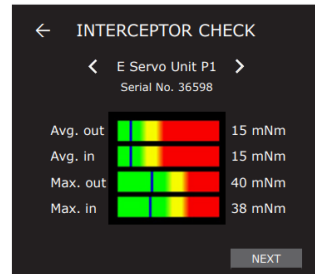
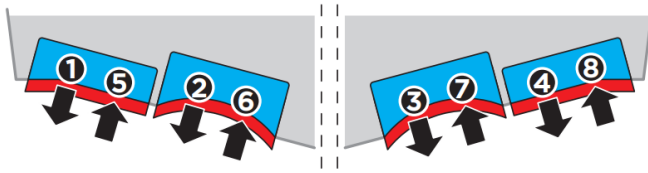


INTERCEPTOR CHECK

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

NOTE! Interceptor Check will not start if no interceptor configuration has been saved to the system (refer to the Operator's Manual).

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. This confirms that the interceptors are correctly connected to the distribution unit(s).



All readings must be green!

Corrective action is always necessary when excessive servo torque levels are observed. The root cause is usually the flatness of the transom behind the interceptor and/or excess antifouling between its blades.

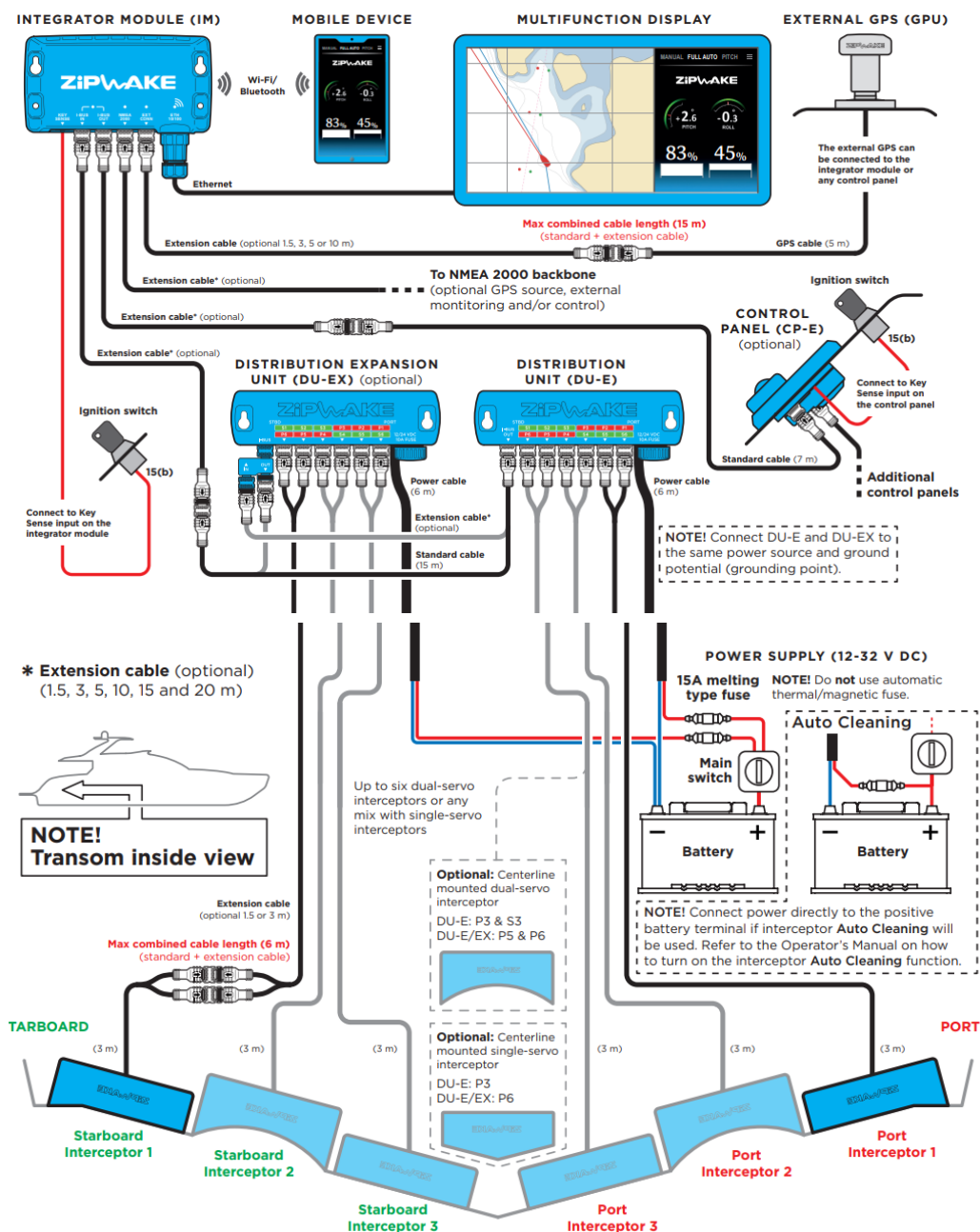
IMPORTANT

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

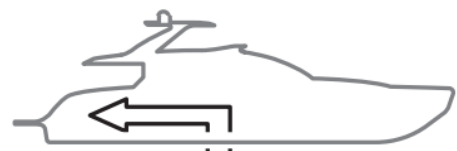
ACCESSORIES

Model	Part No.	Description
CP-E	2012032	CONTROL PANEL E WITH STANDARD CABLE 15 M
DU-EX	2012034	DISTRIBUTION EXPANSION UNIT E WITH POWER CABLE 6 M
IT400-E	2012215	INTERCEPTOR 400 E WITH CABLE 3 M & CABLE COVER
IT600-E	2012018	INTERCEPTOR 600 E WITH CABLE 3 M & CABLE COVER
IT800-E	2012019	INTERCEPTOR 800 E WITH CABLE 3 M & CABLE COVER
IT1000-E	2012020	INTERCEPTOR 1000 E WITH CABLE 3 M & CABLE COVER
IT600-E TUNNEL R500	2012021	INTERCEPTOR 600 E TUNNEL R500 WITH CABLE 3 M & CABLE COVER
IT600-E TUNNEL R600	2012022	INTERCEPTOR 600 E TUNNEL R600 WITH CABLE 3 M & CABLE COVER
IT600-E TUNNEL R800	2012023	INTERCEPTOR 600 E TUNNEL R800 WITH CABLE 3 M & CABLE COVER
IT400-E CHINE PORT	2012216	INTERCEPTOR 400 E CHINE PORT SIDE WITH CABLE 3 M & CABLE COVER
IT400-E CHINE STBD	2012217	INTERCEPTOR 400 E CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVER
IT600-E CHINE PORT	2012024	INTERCEPTOR 600 E CHINE PORT SIDE WITH CABLE 3 M & CABLE COVER
IT600-E CHINE STBD	2012025	INTERCEPTOR 600 E CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVER
EC1.5-M12	2011258	8 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
CC-EX	2012036	CABLE COVER EXTENSION E KIT
GPU	2011240	GLOBAL POSITIONING UNIT WITH CABLE 5 M & MOUNT KIT

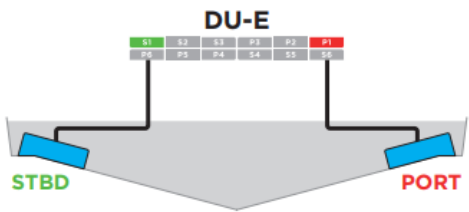
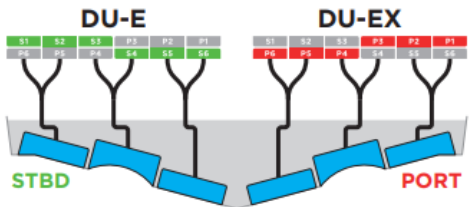
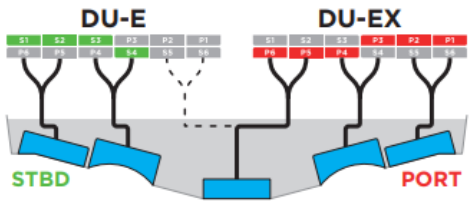
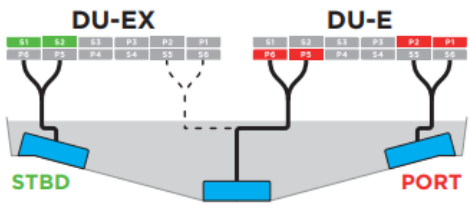
WIRING DIAGRAM

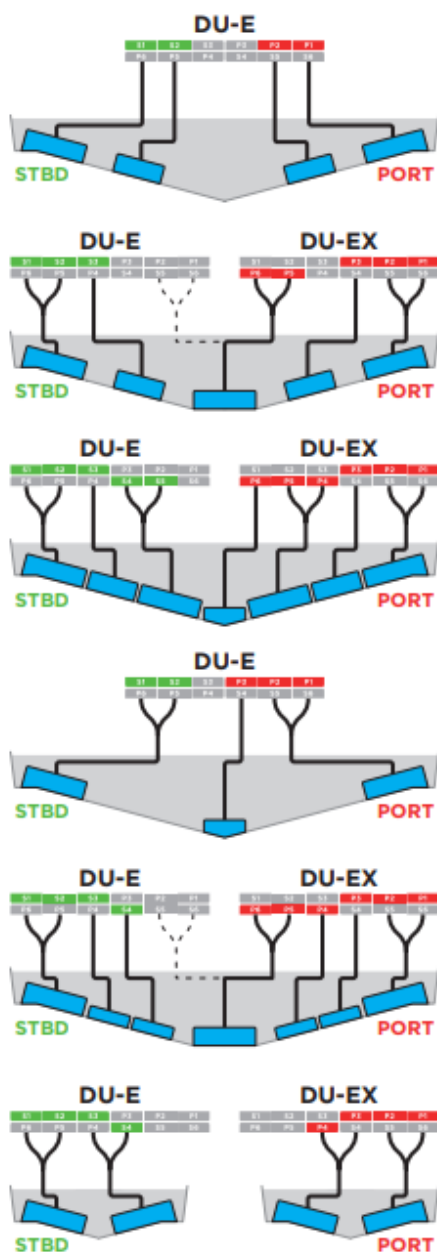


DU/INTERCEPTOR CONFIGURATIONS



NOTE!
Transom inside view





Visit zipwake.com for additional information such as:

- Operator's Manual and Installation Guide 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

ZIPWAKE
CHOOSE COMFORT. ENJOY PERFORMANCE.

Documents / Resources

<div><div><div>DYNAMIC TRIM CONTROL SYSTEM</div><div>FOR INTEGRATION</div><div>SERIES E</div><div>INSTALLATION GUIDE</div></div><div><div>ZIPWAKE</div></div></div>	<div><div><div>ZIPWAKE Series E Dynamic Trim Control System [pdf] Installation Guide</div><div>Series E, Series E Dynamic Trim Control System, Dynamic Trim Control System, Trim Control System, Control System</div></div></div>
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