DYNAMIC TRIM CONTROL SYSTEM

FOR INTEGRATION

SERIES E

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")
Ø 16 mm (5/8") (optional)

Thread Tap (optional)
M18 x 2.5

Screw bits
T25
T30
T40

Power drill

Sealant

Flat screwdriver

Bits screwdriver

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

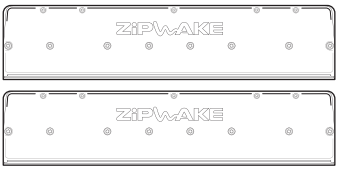
Utility knife

Hacksaw

Antifouling

KIT BOX CONTENTS

INTERCEPTOR



2 x Interceptors
with Cable 3 m & Cable Cover

DISTRIBUTION UNIT

1 x Distribution Unit
with Power Cable 6 m

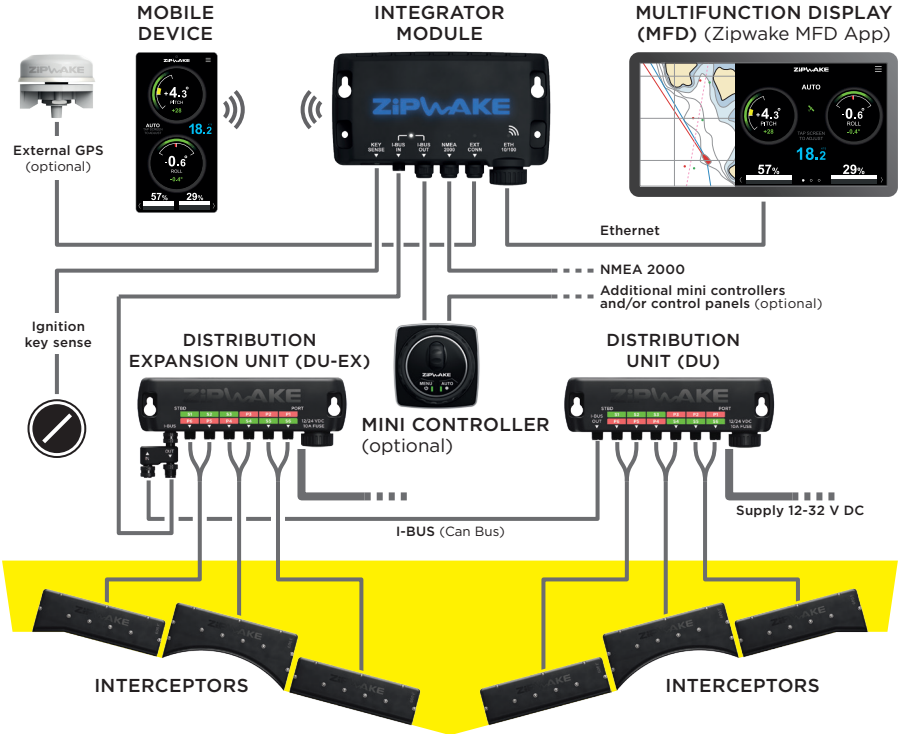
INTEGRATOR MODULE

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

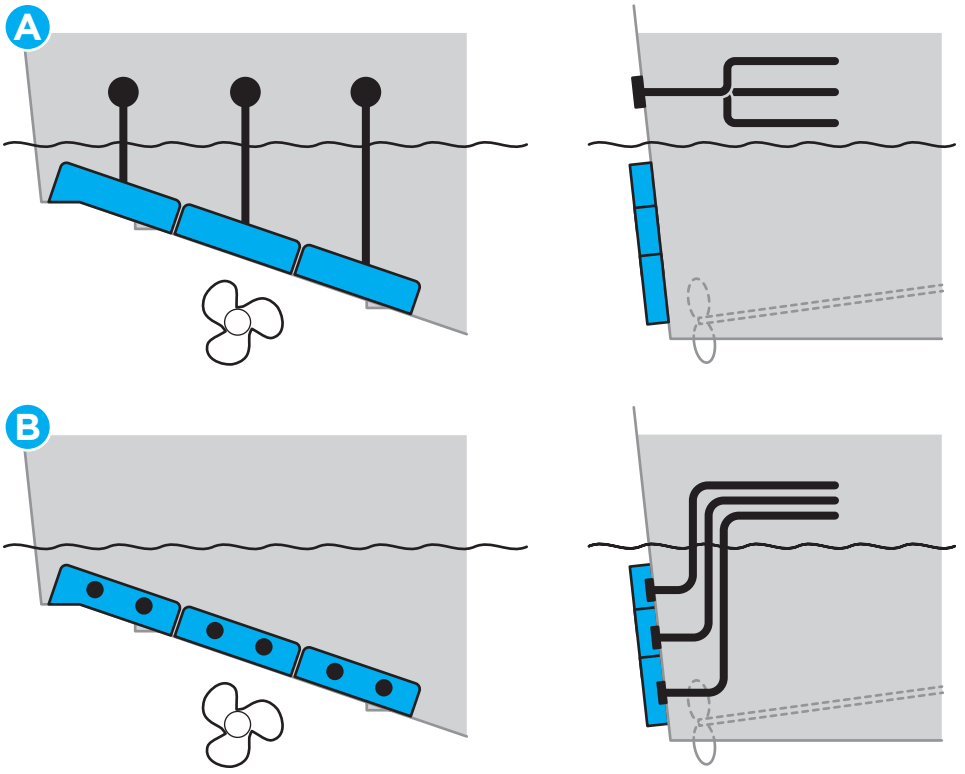
SYSTEM OVERVIEW



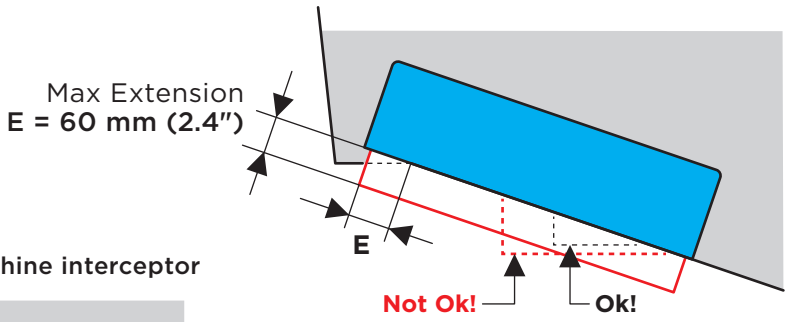
1 MOUNTING OPTIONS

THRU-HULL CABLE FITTINGS

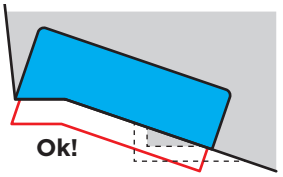
Depending on preference, the interceptors can be mounted with thru-hull cable fittings above the waterline (A) or below, concealed behind the interceptors (B).



ALLOWED SPRAY RAIL OVERLAP



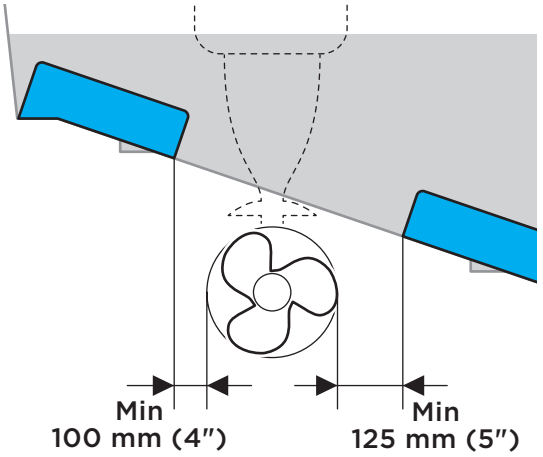
NOTE! Chine interceptor



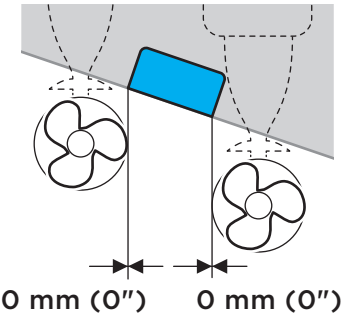
INTERCEPTOR

PROPELLER CLEARANCE

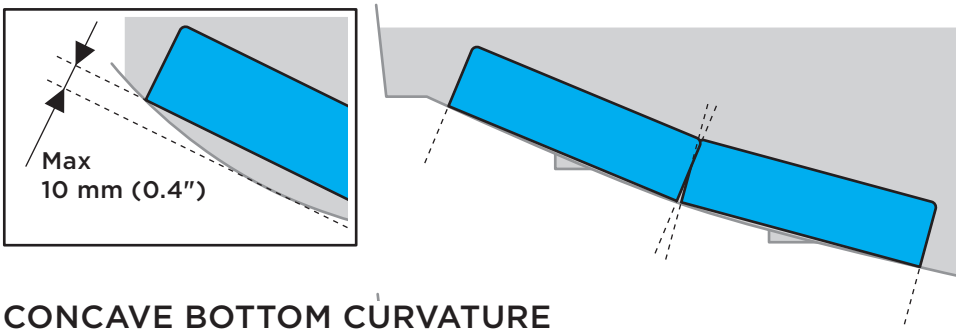
If the boat has an outboard engine or sterndrive, the interceptors must be mounted with clearance to the propeller(s).



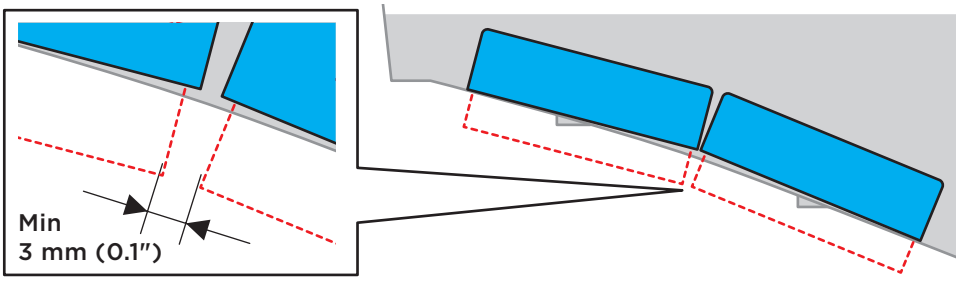
NOTE!
Optional intermediate Series S interceptor IT300-S INTER



CONVEX BOTTOM CURVATURE



CONCAVE BOTTOM CURVATURE



OPTIONAL

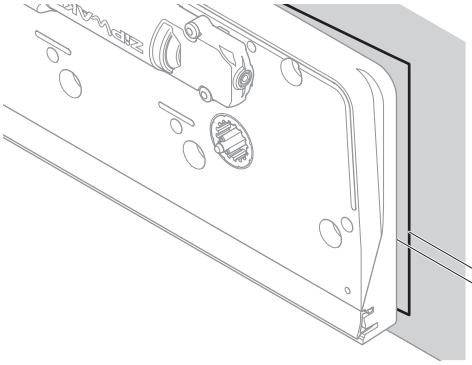
400-E Round model for convex hulls

600-E Tunnel models for propeller tunnels

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

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

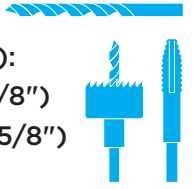
DRILLING TEMPLATE

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.

Convcave 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:

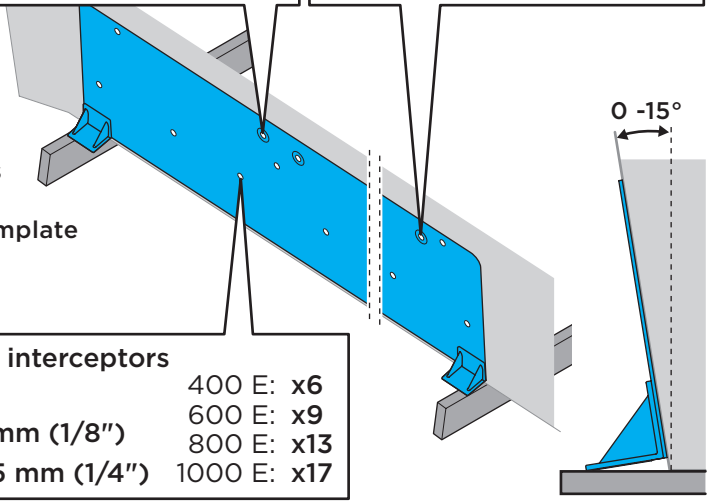
1. Pilot hole **Ø 3 mm (1/8″)**
2. Hole saw **Ø 19 mm (3/4″)**

Option 2 (threaded hole):

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

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**

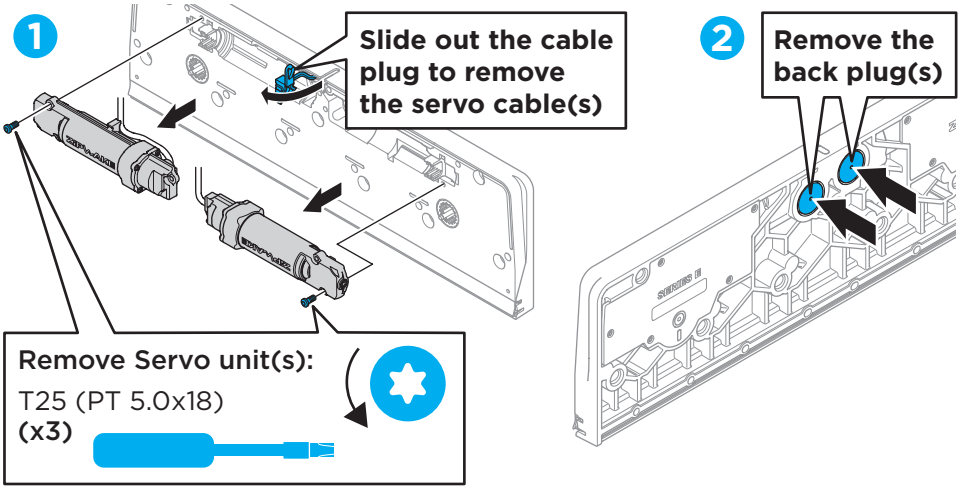
Drill holes for the interceptors

1. Pilot hole **Ø 3 mm (1/8″)**
2. Drill **Ø 6.5 mm (1/4″)**

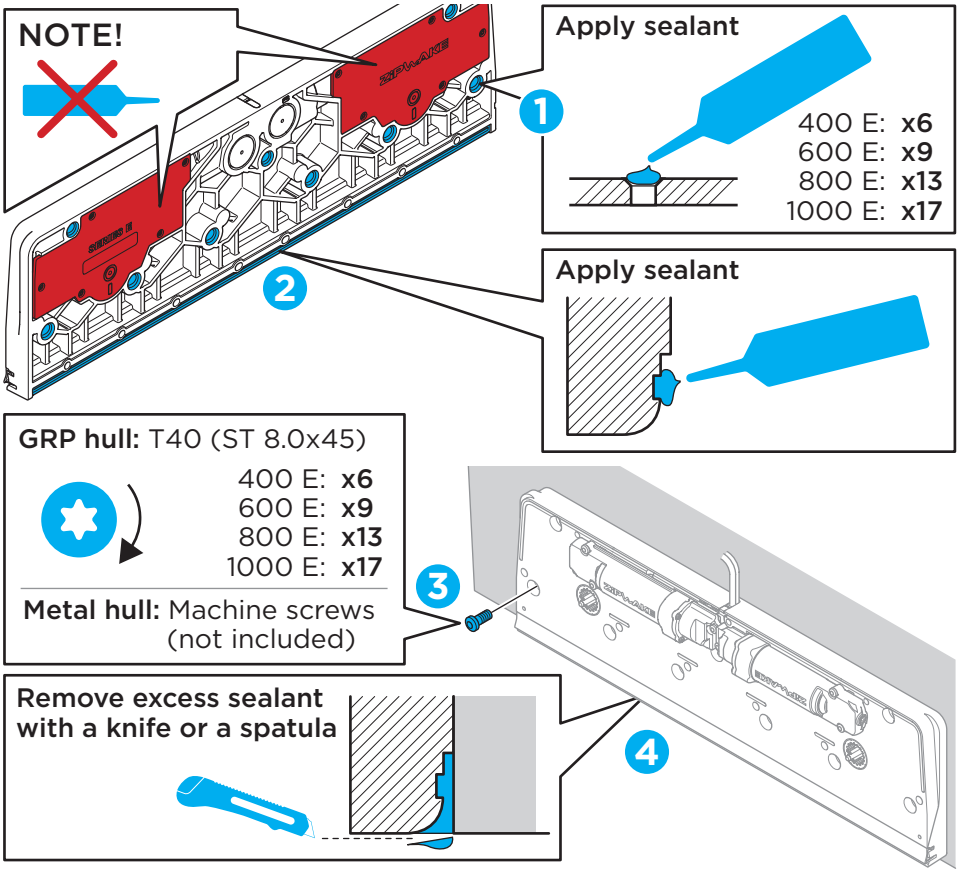
400 E: **x6**
600 E: **x9**
800 E: **x13**
1000 E: **x17**

3 INSTALL THE BACK PLATES

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

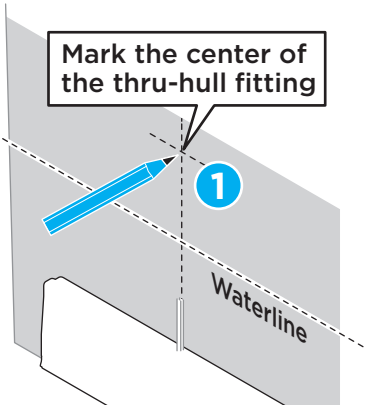


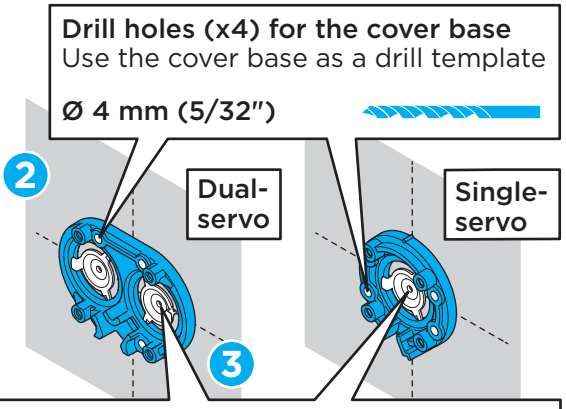
B. MOUNT THE BACK PLATE



INTERCEPTOR

4A INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE





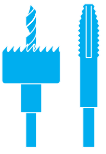
Drill holes for thru-hull fittings (1 or 2 holes)

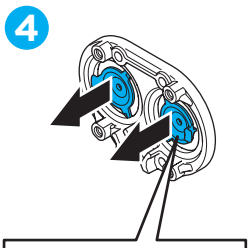
Option 1:

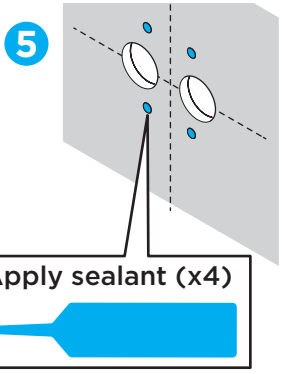
1. Pilot hole **Ø 3 mm (1/8")**
2. Hole saw **Ø 19 mm (3/4")**

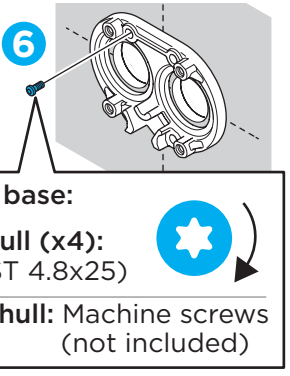
Option 2 (threaded hole):

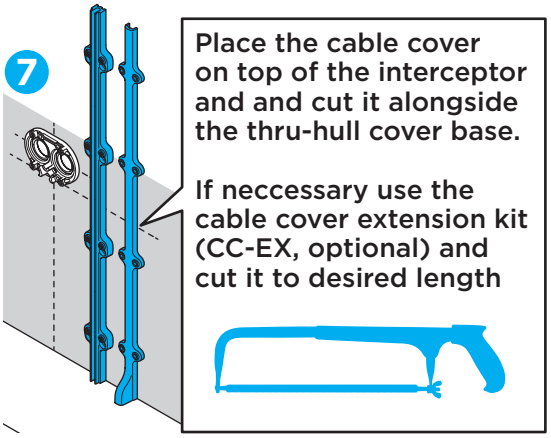
1. Pilot hole **Ø 3 mm (1/8")**
2. Hole saw **Ø 16 mm (5/8")**
3. Thread tap **M18 x 2.5**

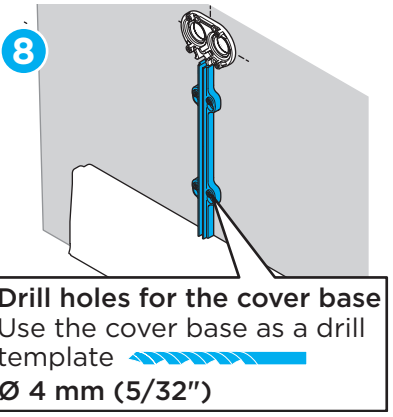












INTERCEPTOR

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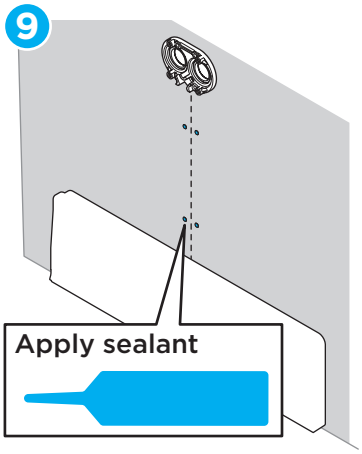

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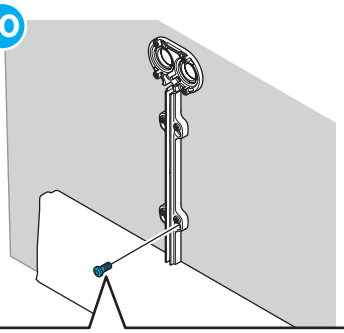

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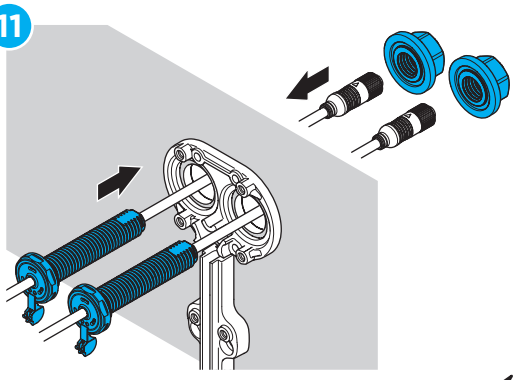

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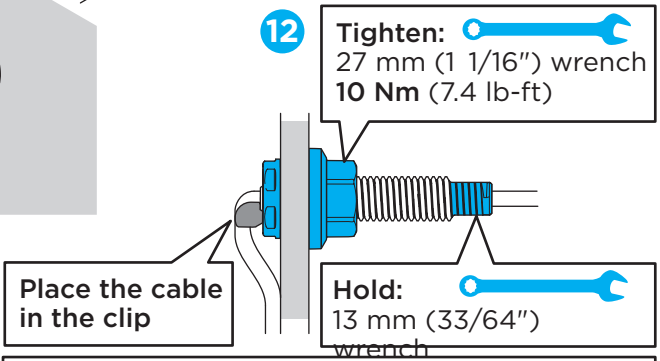
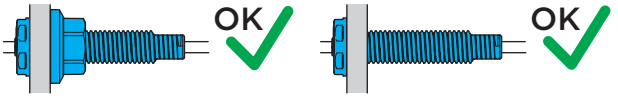


NOTE! Threaded hole



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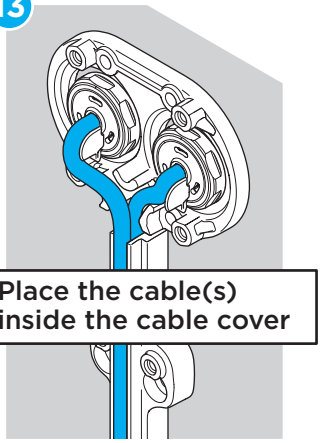

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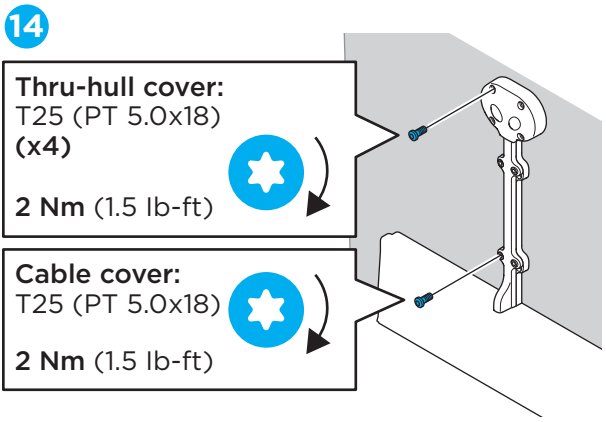
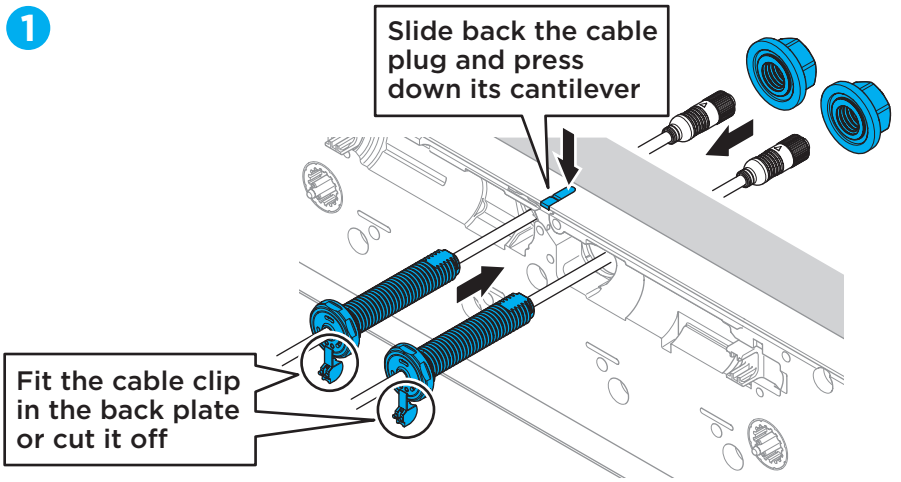


4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

1



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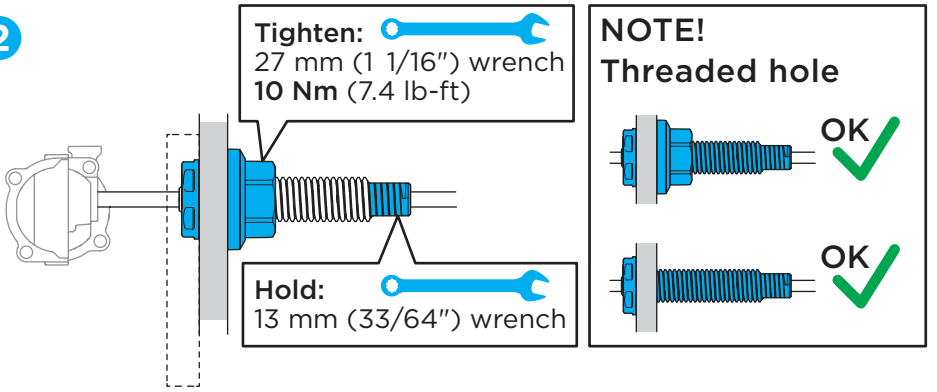

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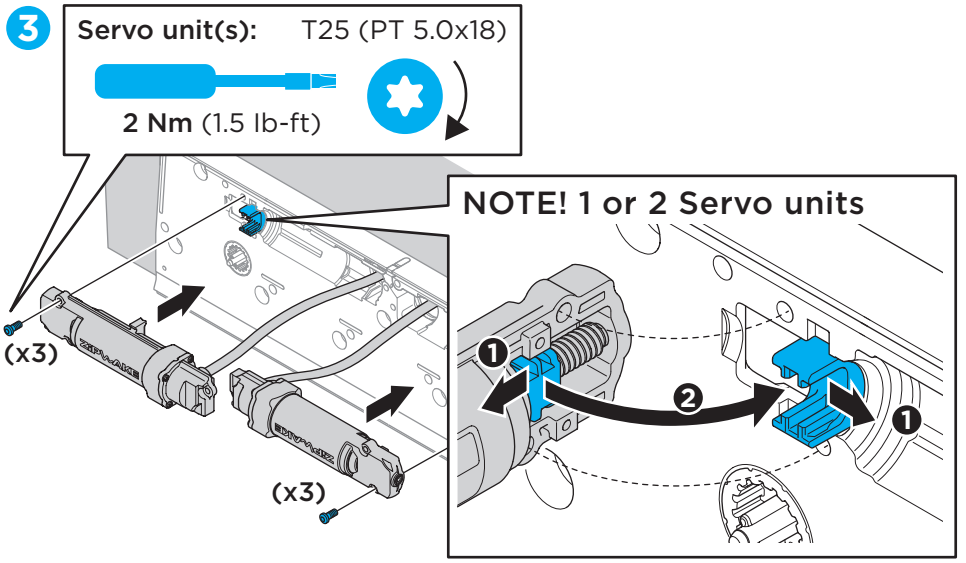
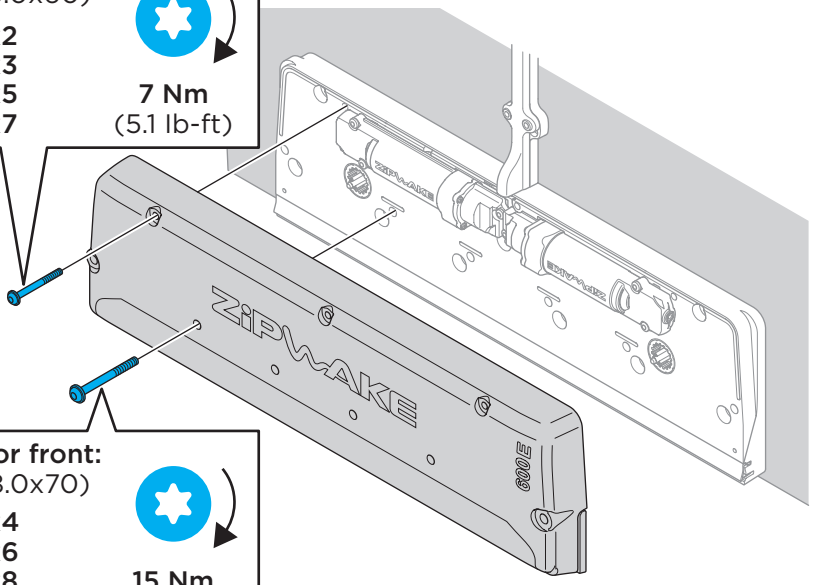


5 INSTALL THE INTERCEPTOR FRONTS

Interceptor front:
T30 (PT 6.0x60)

400 E: **x2**
600 E: **x3**
800 E: **x5**
1000 E: **x7**

7 Nm
(5.1 lb-ft)

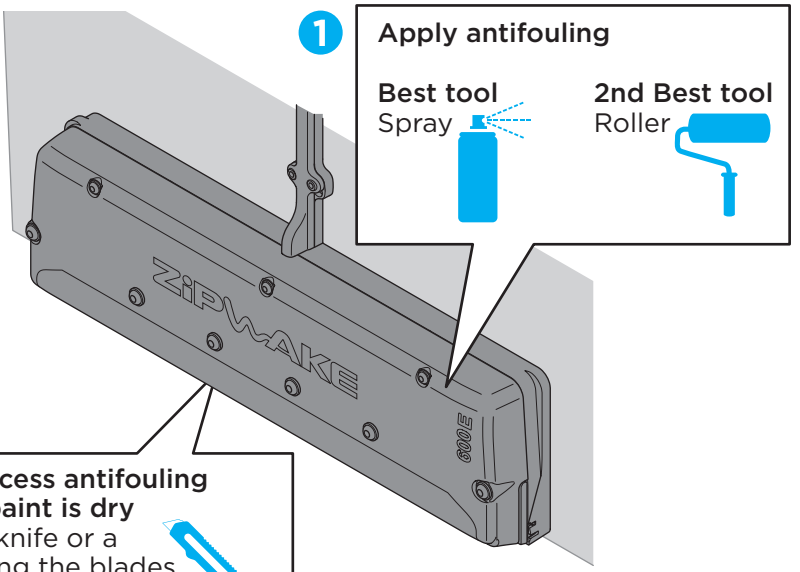


Interceptor front:
T40 (PT 8.0x70)

400 E: **x4**
600 E: **x6**
800 E: **x8**
1000 E: **x10**

15 Nm
(11 lb-ft)

6 PAINT THE INTERCEPTORS WITH ANTIFOULING



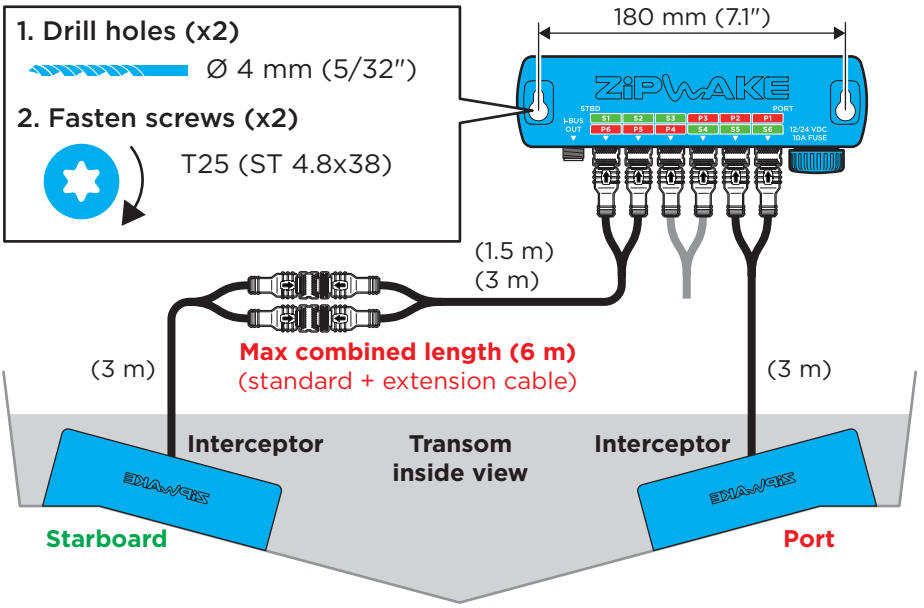
Remove excess antifouling when the paint is dry
Run a thin knife or a spatula along the blades to ascertain unrestrained blade motion

DISTRIBUTION UNIT

1 MOUNT THE DISTRIBUTION UNIT

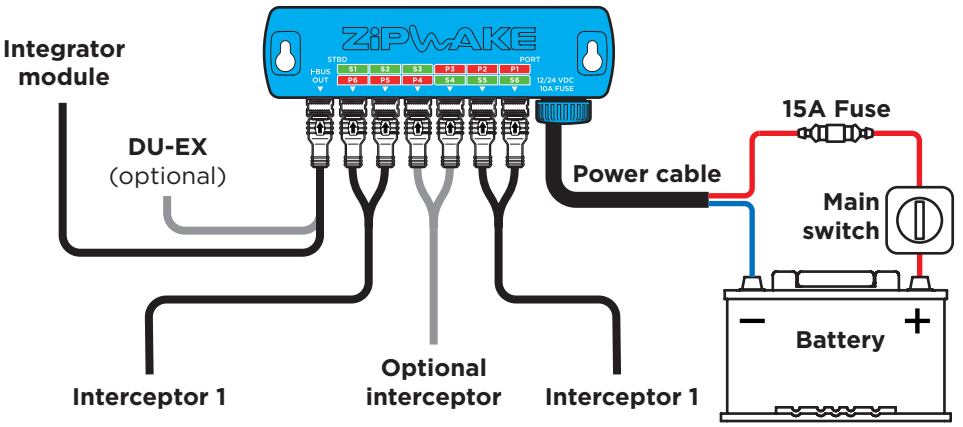
Mount the distribution unit inboard where it is easy to connect it to both interceptors and power supply (battery) e.g. the engine room or other suitable compartment.

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



2 CONNECT THE DISTRIBUTION UNIT

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

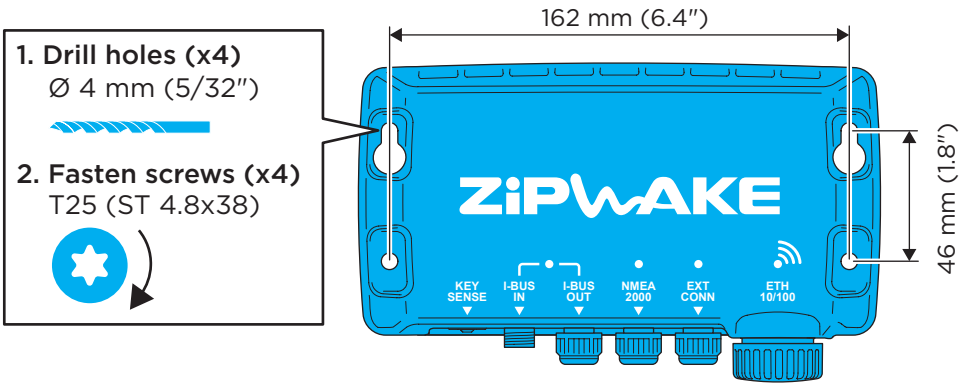


INTEGRATOR MODULE

1 MOUNT THE INTEGRATOR MODULE

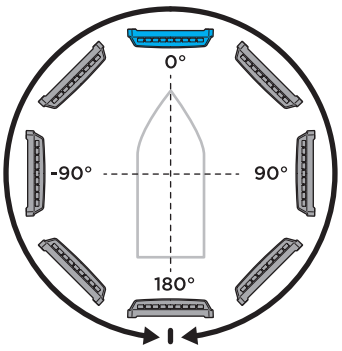
Mount the integrator module on a rigid surface where it is easy to connect it to the distribution unit and other equipment e.g. under the dash or another suitable compartment. If the system will be used with mobile devices, mount the integrator module for maximum signal strength.

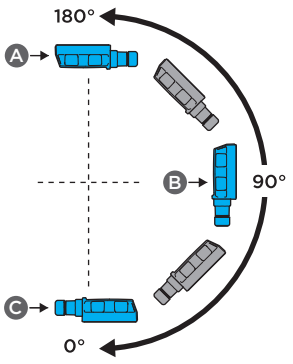
NOTE!
0.5 m (1.6 ft) safe distance to magnetic compass.

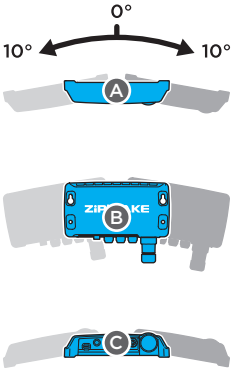


MOUNTING RESTRICTIONS
Mount the integrator module within the angles shown below.

Orientation Angle





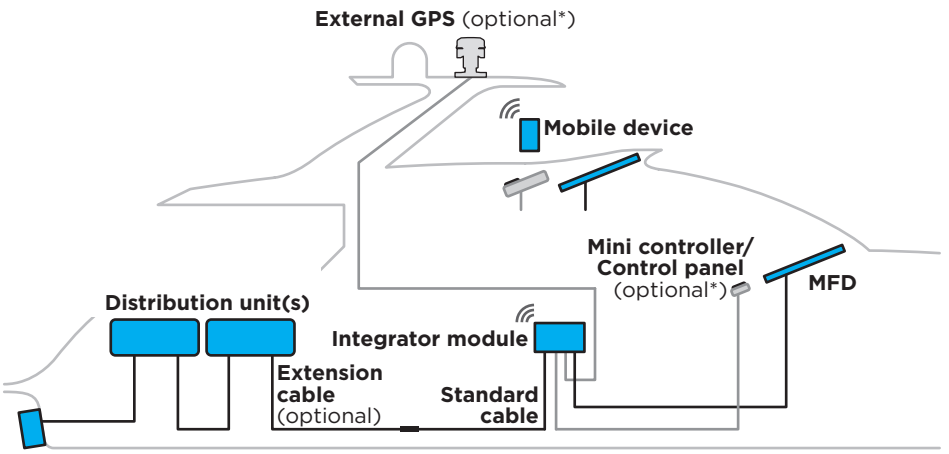


NOTE!
Make sure the integrator module orientation angle (mounting angle relative the boat's forward direction) is set as accurately as possible during initial start-up.

INTEGRATOR MODULE

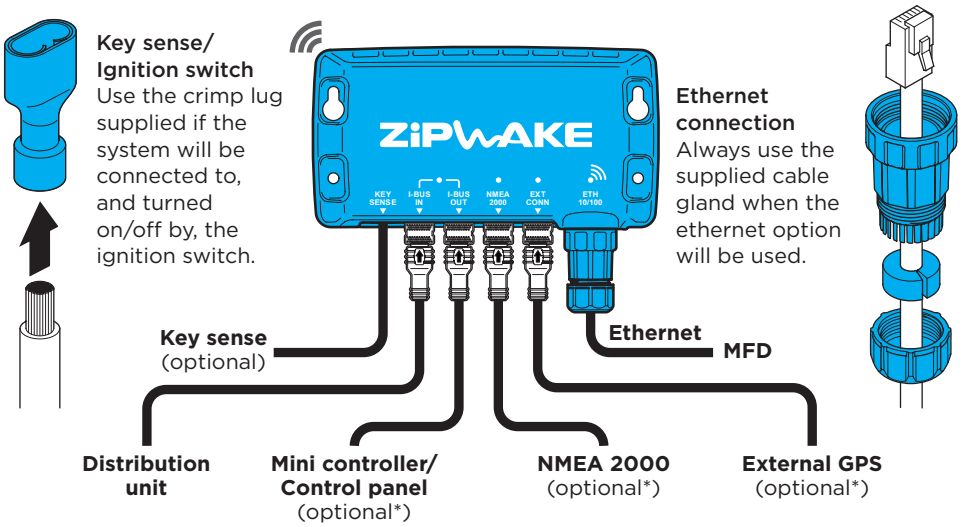
2 CONNECT THE INTEGRATOR MODULE

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.

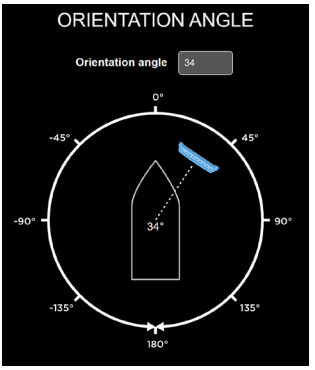
MOBILE DEVICE

Scan the QR-code on the integrator module label ❶ 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 ❷ 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 ±5°.

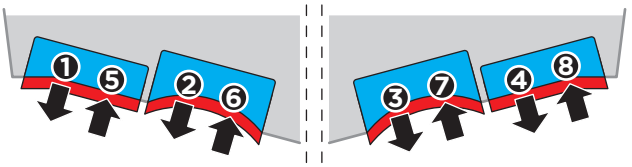
If the orientation angle is difficult to measure or estimate, use a compass or a mobile device compass application to determine the angle.

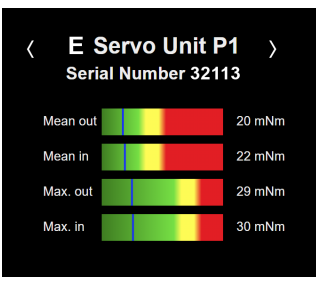


INTERCEPTOR CHECK

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

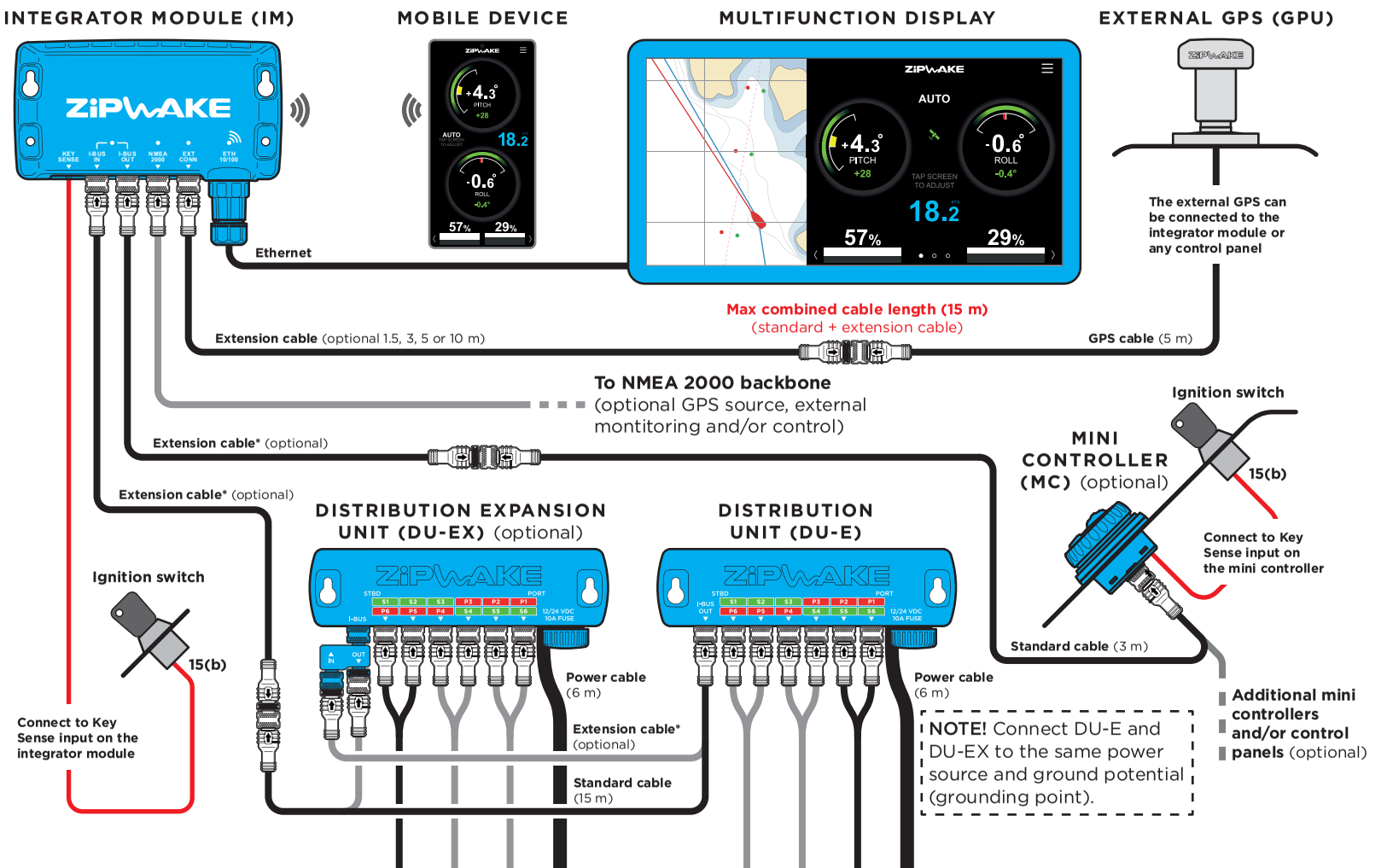
Always use the controls to move the Interceptor blades. Never try to force the Interceptor blades by hand.

WIRING DIAGRAM

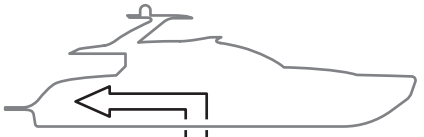
ACCESSORIES

Model	Part No.	Description
MC	**2012401**	MINI CONTROLLER WITH STANDARD CABLE 3 M
CP-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
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

WIRING DIAGRAM



WIRING DIAGRAM



NOTE!
Transom inside view

NOTE! Only use Zipwake cables between Zipwake components.

POWER SUPPLY (12-32 V DC)

15A melting type fuse

NOTE! Do **not** use automatic thermal/magnetic fuse.

Main switch

Battery

Auto Cleaning

Battery

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.

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

Optional: Centerline mounted dual-servo interceptor

DU-E: P3 & S3
DU-E/EX: P5 & P6

Optional: Centerline mounted single-servo interceptor

DU-E: P3
DU-E/EX: P6

Extension cable
(optional 1.5 or 3 m)

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

STARBOARD

PORT

(3 m)

(3 m)

(3 m)

(3 m)

(3 m)

(3 m)

Starboard Interceptor 1

Starboard Interceptor 2

Starboard Interceptor 3

Port Interceptor 3

Port Interceptor 2

Port Interceptor 1

∗ **Extension cable** (optional)
(1.5, 3, 5, 10, 15 and 20 m)

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

CHOOSE COMFORT. ENJOY PERFORMANCE.