

DYNAMIC TRIM CONTROL SYSTEM

SERIES S **PRO**

FOR INTEGRATION

INSTALLATION GUIDE

ZIPWAKE

CHOOSE COMFORT. ENJOY PERFORMANCE.

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")



Screw bits
T20
T25
T30



Power drill



Sealant



Flat screwdriver



Bits screwdriver



Wrench

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



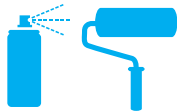
Utility knife



Hacksaw

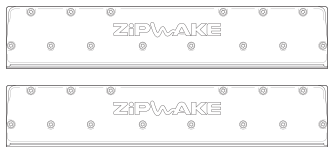


Antifouling



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



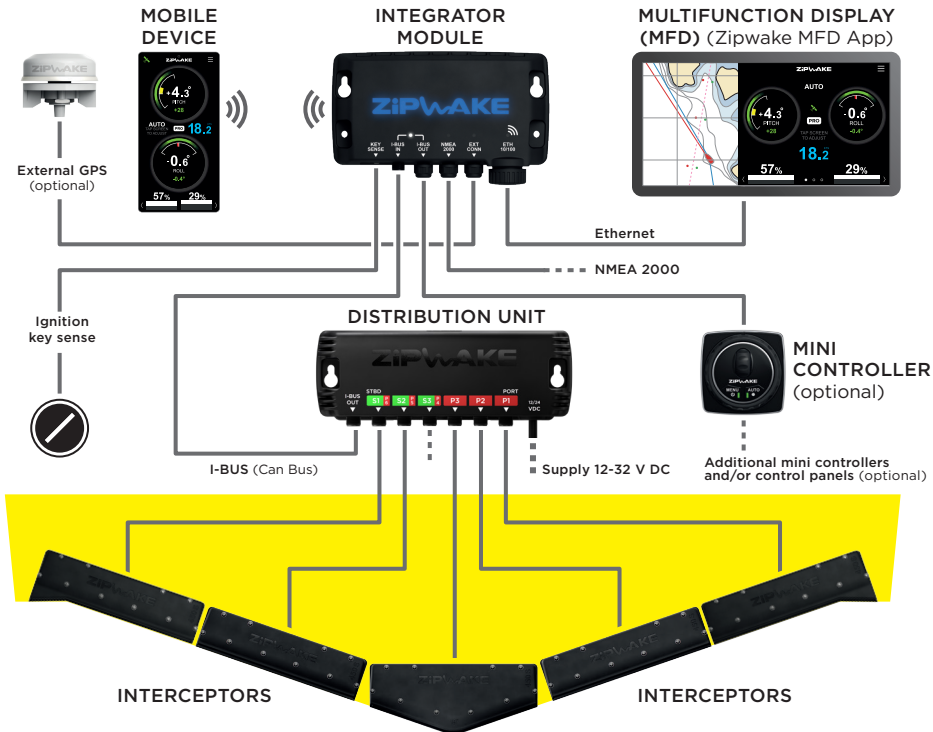
1 x Integrator Module

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



1 x Standard Cable 7 m

SYSTEM OVERVIEW

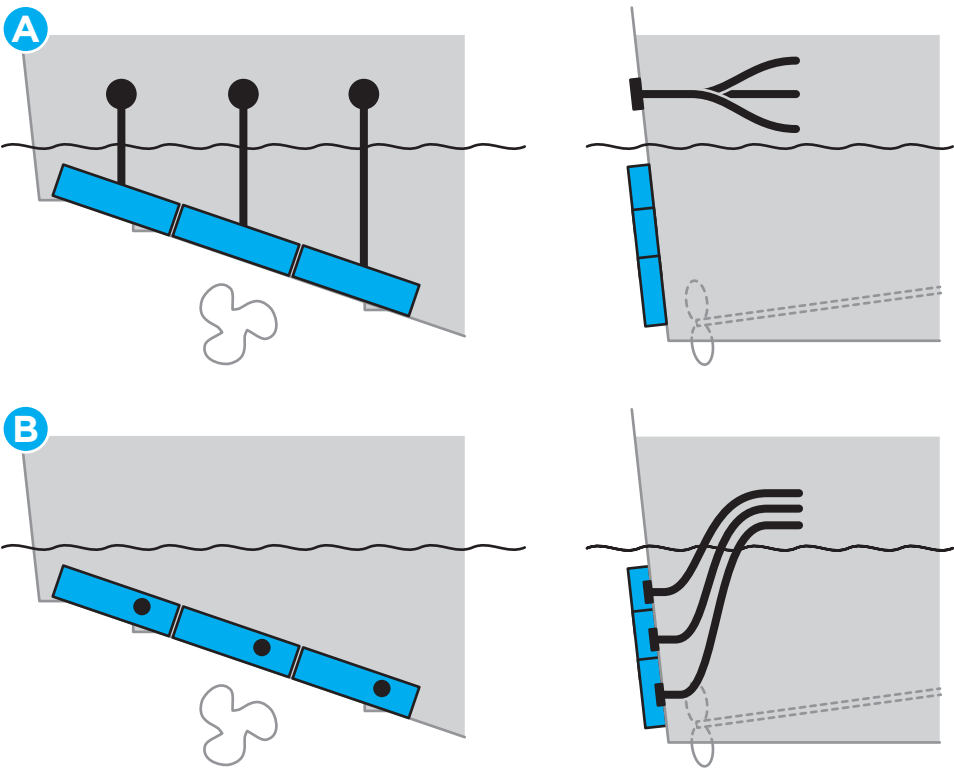


INTERCEPTOR

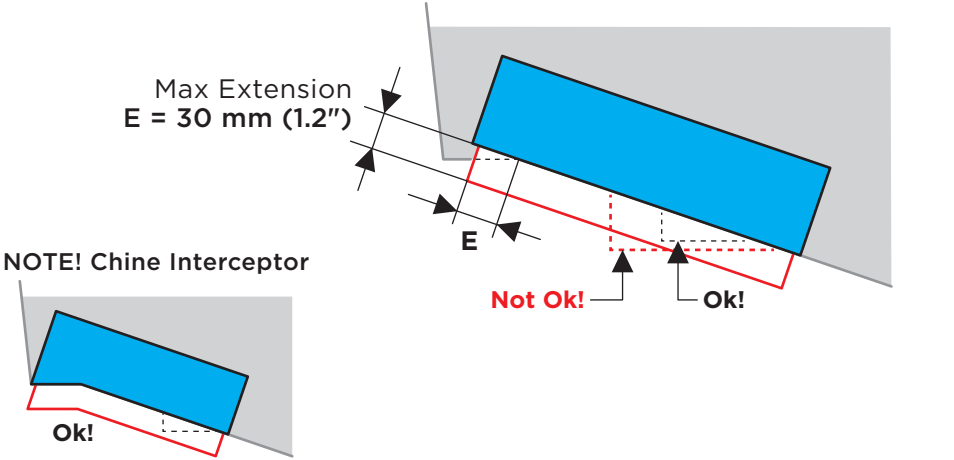
1 MOUNTING OPTIONS

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).



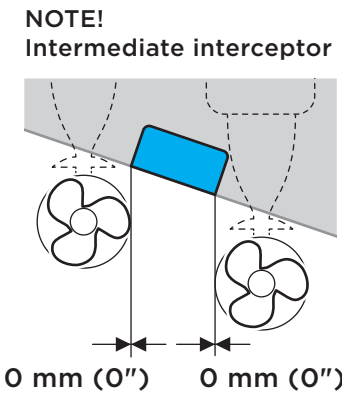
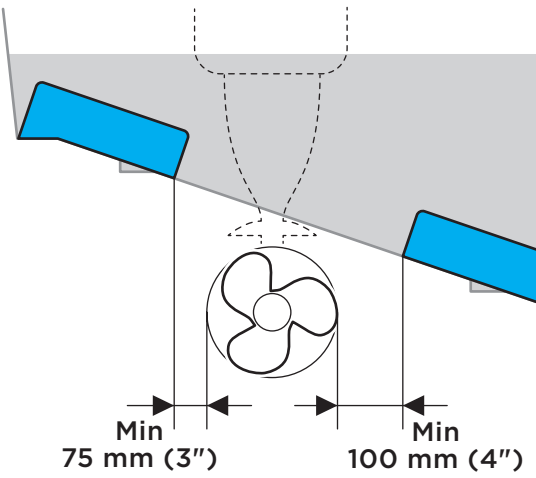
ALLOWED SPRAY RAIL OVERLAP



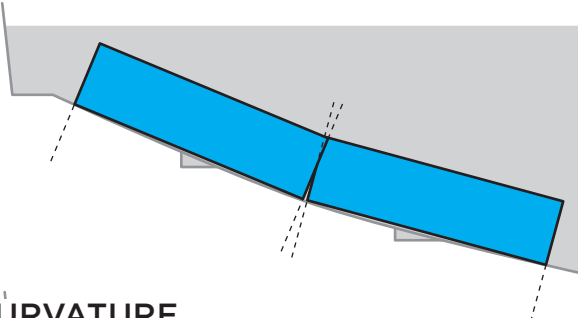
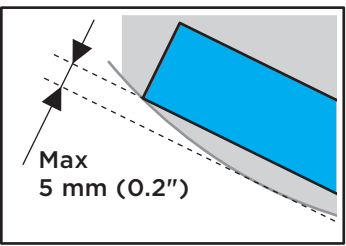
INTERCEPTOR

PROPELLER CLEARANCE

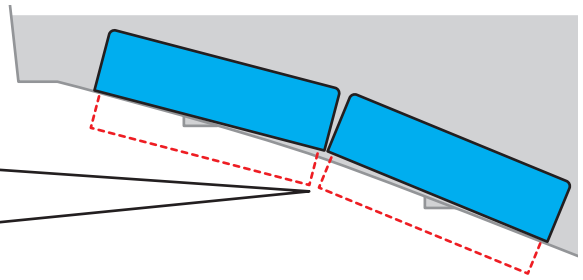
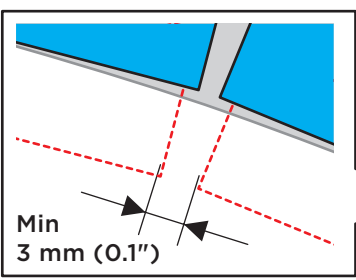
If the boat has an outboard engine or sterndrive, the Interceptors must be mounted with clearance to the propeller(s).



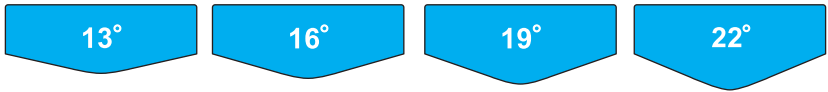
CONVEX BOTTOM CURVATURE



CONCAVE BOTTOM CURVATURE



OPTIONAL



V-shaped models for center mount

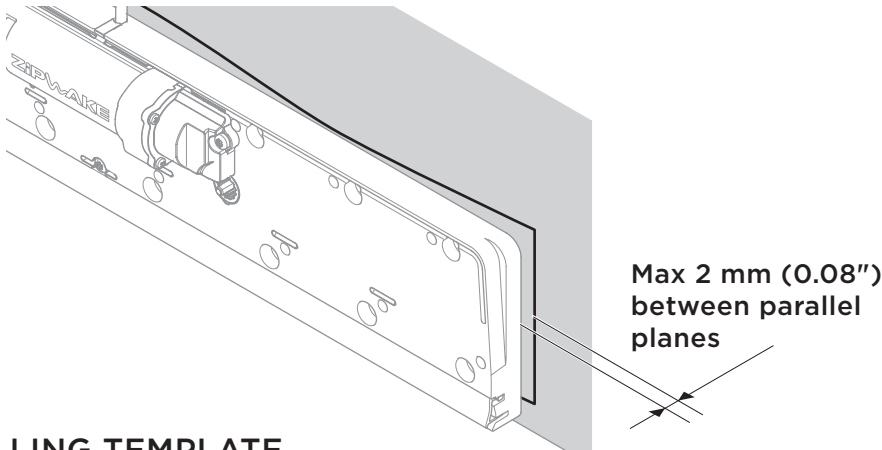
NOTE! Same tolerances and clearances as straight/chine interceptors.

INTERCEPTOR

2 PREPARE THE TRANSOM

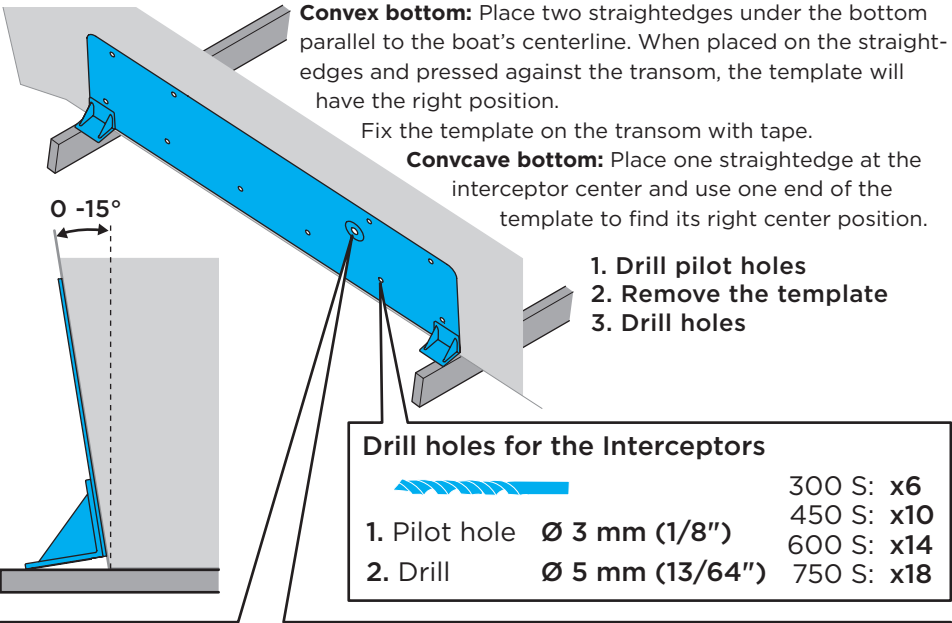
ENSURE A FLAT SURFACE FOR EACH INTERCEPTOR

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):

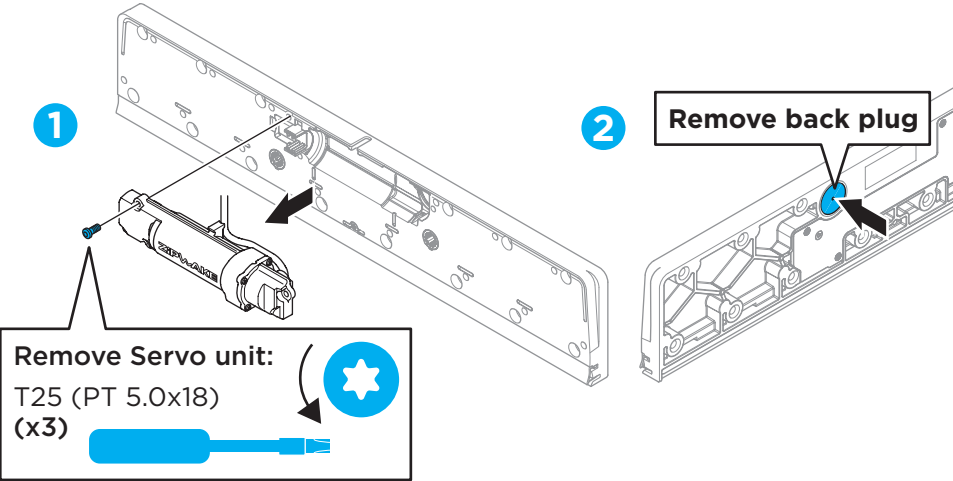
1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 16 mm (5/8")
3. Tap M18 x 2.5



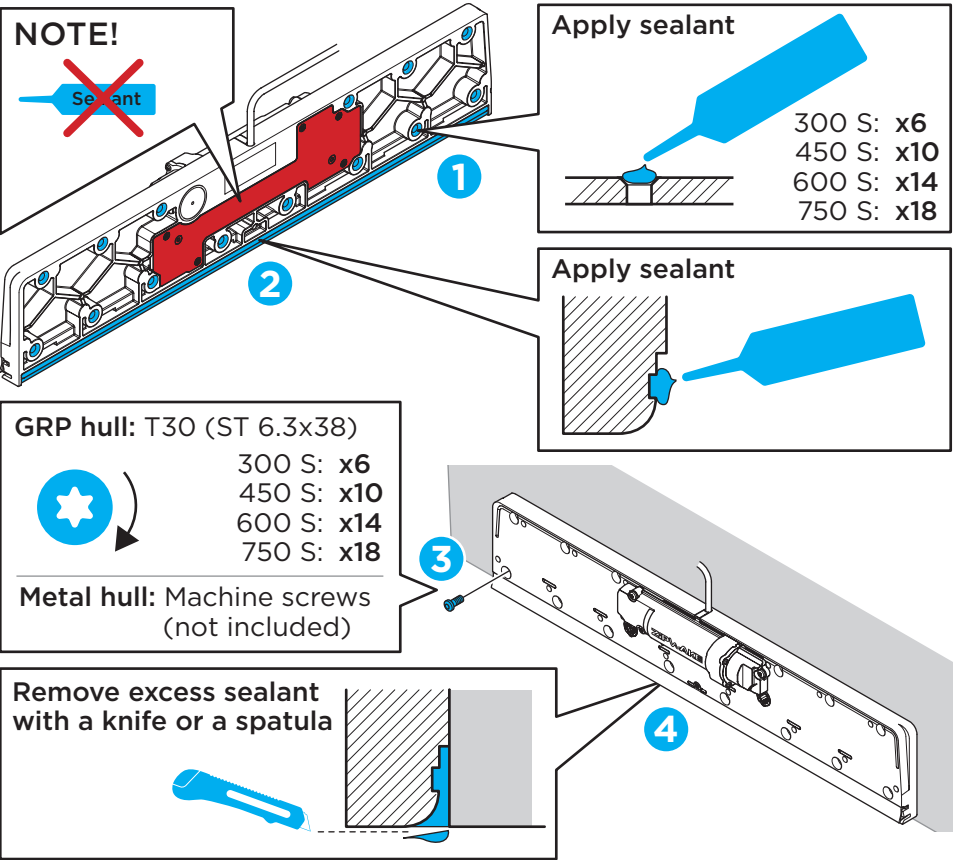
INTERCEPTOR

3 INSTALL THE BACK PLATES

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



B. MOUNT THE BACK PLATE

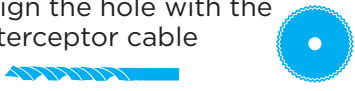


INTERCEPTOR

4A INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE

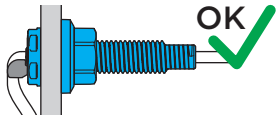
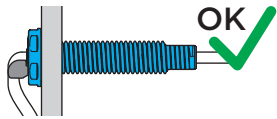
1

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

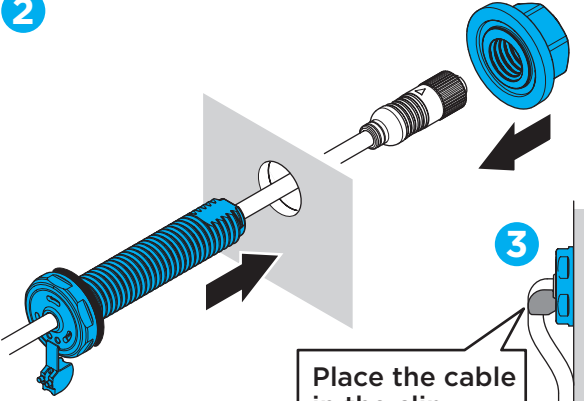


1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 19 mm (3/4")

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



2



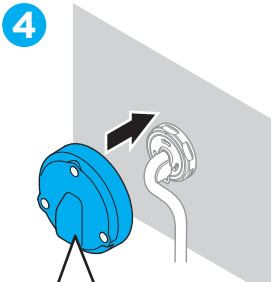
Tighten: 
27 mm (1 1/16") wrench
10 Nm (7.4 lb-ft)

Hold: 
13 mm (33/64") wrench

3

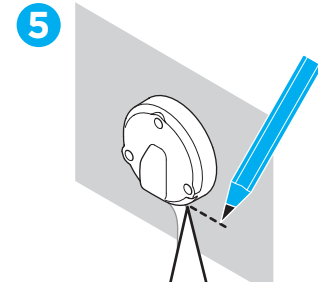
Place the cable in the clip

4



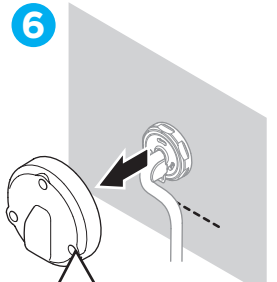
Place the cover on the thru-hull fitting

5



Mark the lower edge of the thru-hull cover

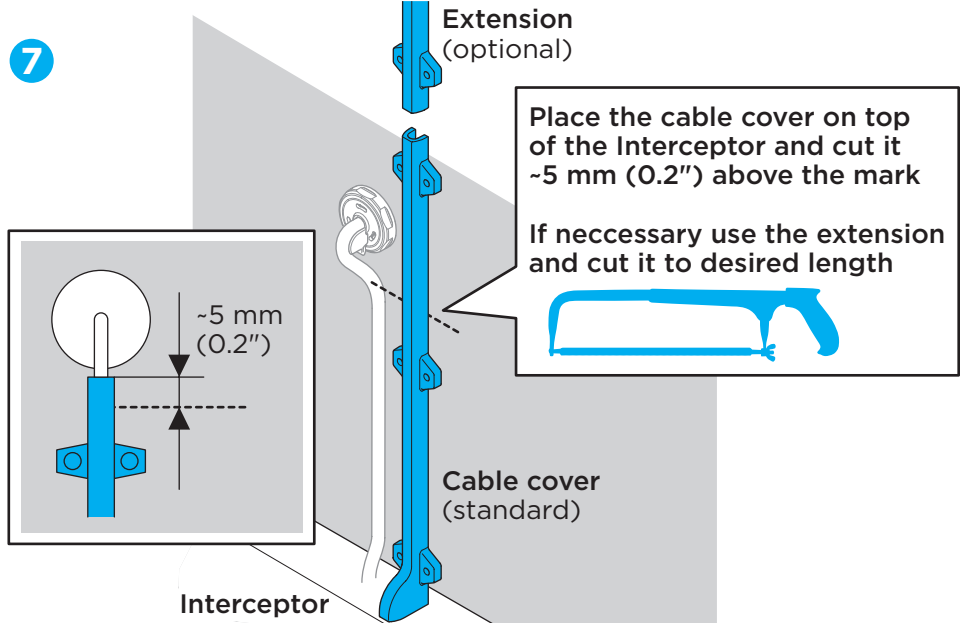
6



Remove the thru-hull cover

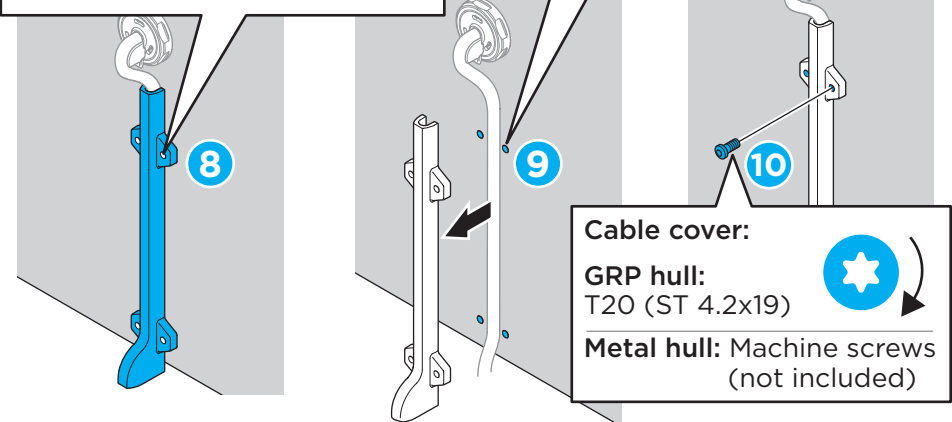
INTERCEPTOR

7



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

Apply sealant

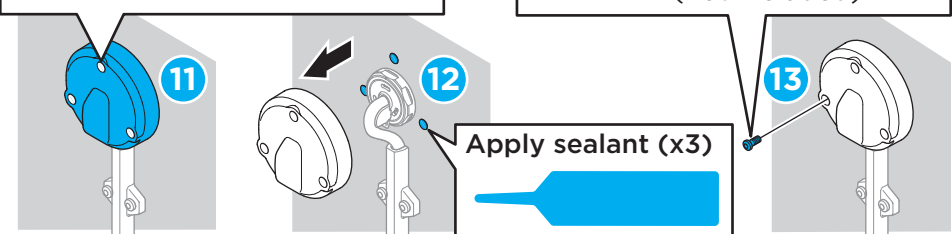


Drill holes (x3) for the cover
Use the cover as a drill template
Ø 5 mm (13/64")

Thru-hull cover:

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

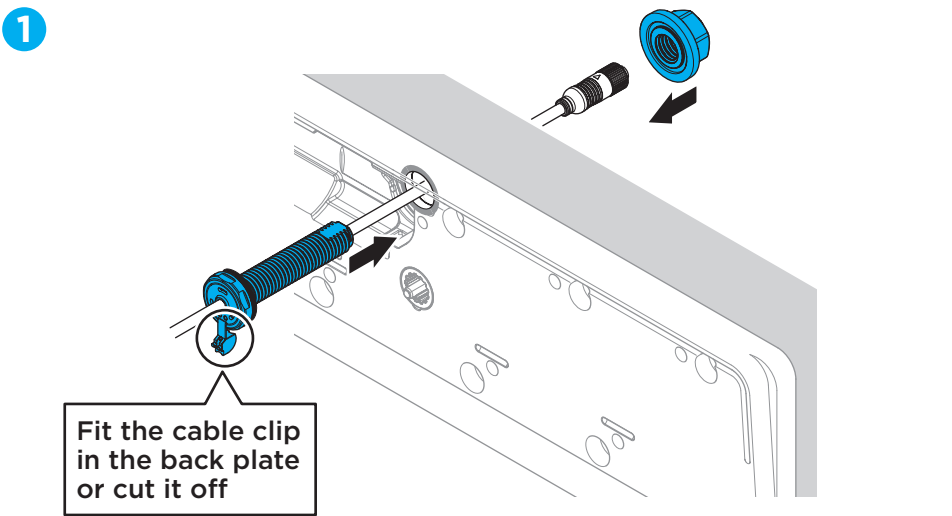
Metal hull: Machine screws (not included)



INTERCEPTOR

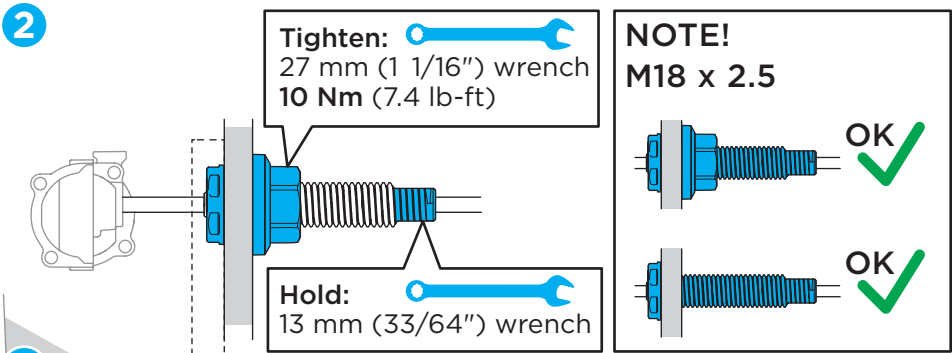
4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

1



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)

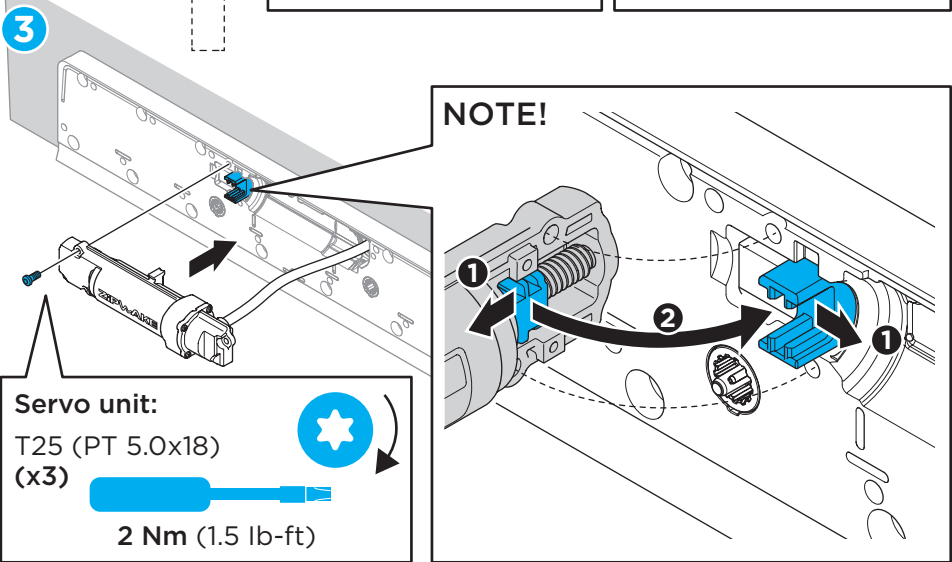
Hold: 13 mm (33/64") wrench

NOTE!
M18 x 2.5

OK

OK

3

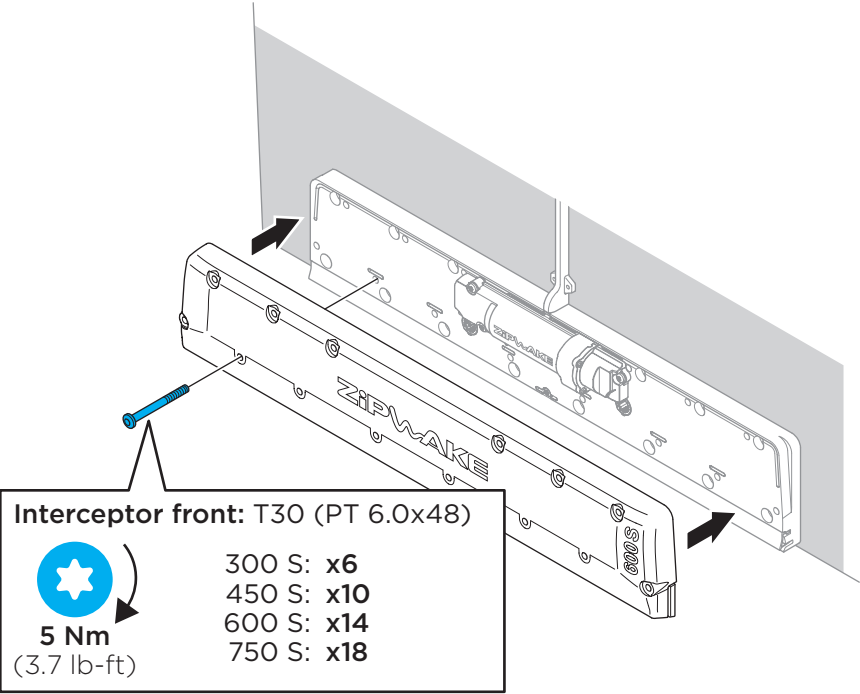


Servo unit:
T25 (PT 5.0x18)
(x3)
2 Nm (1.5 lb-ft)

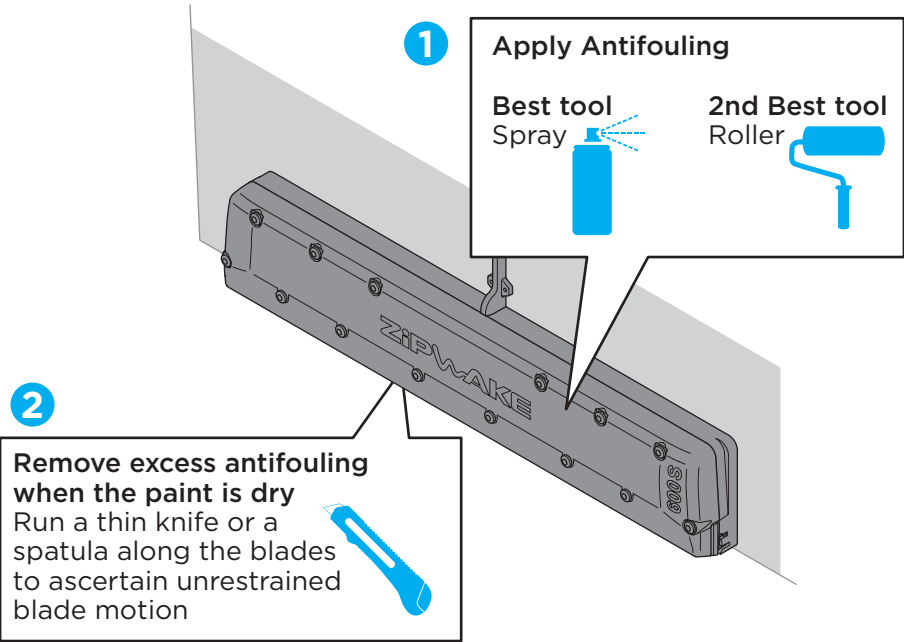
NOTE!

INTERCEPTOR

5 INSTALL THE INTERCEPTOR FRONTS



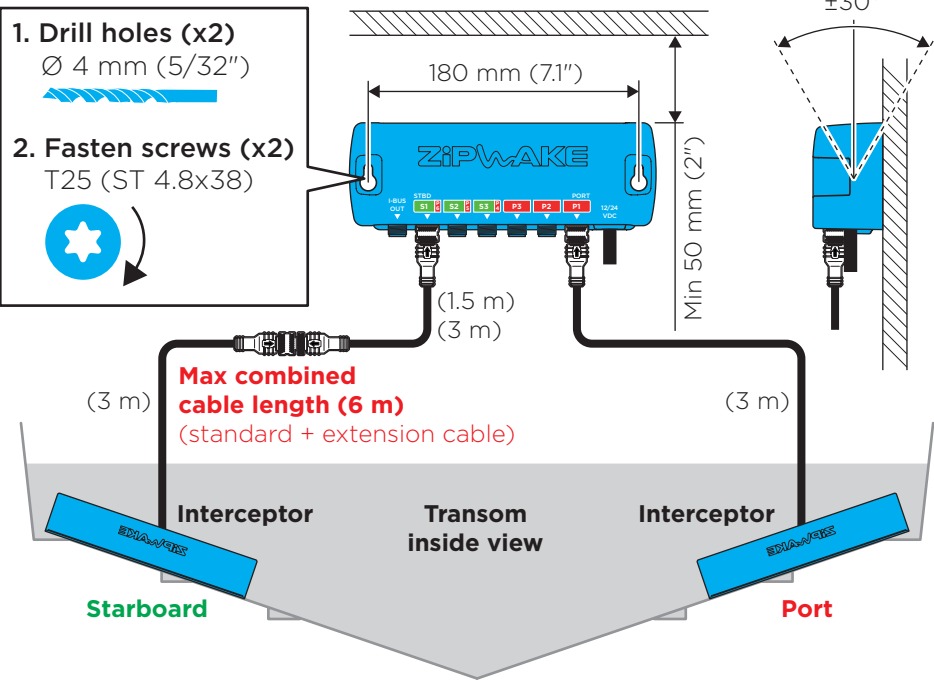
6 PAINT THE INTERCEPTORS WITH ANTIFOULING



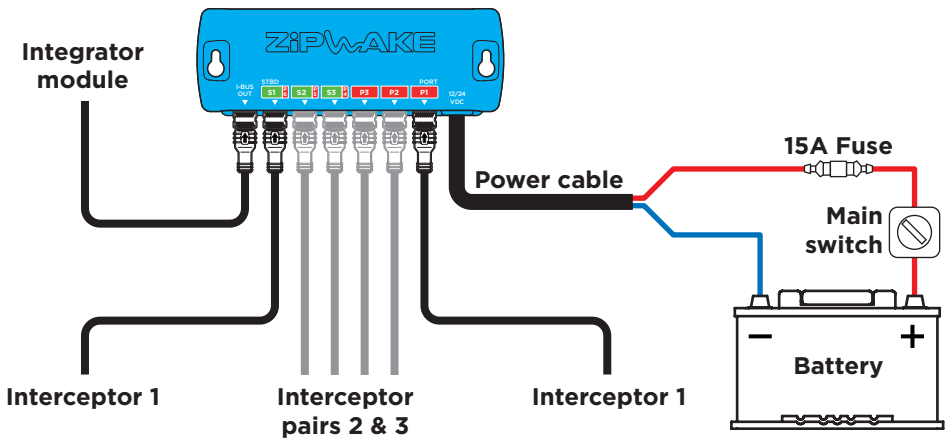
DISTRIBUTION UNIT

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.

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.

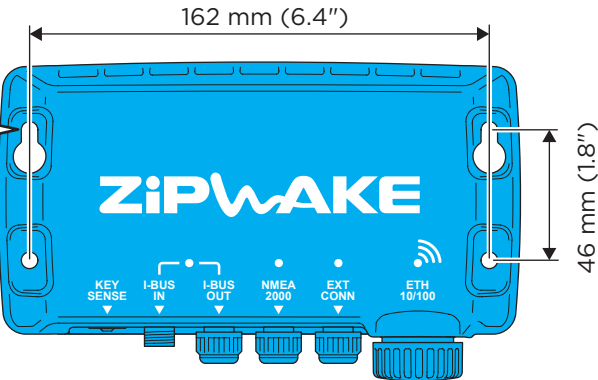
NOTE!

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

1. Drill holes (x4)
Ø 4 mm (5/32")

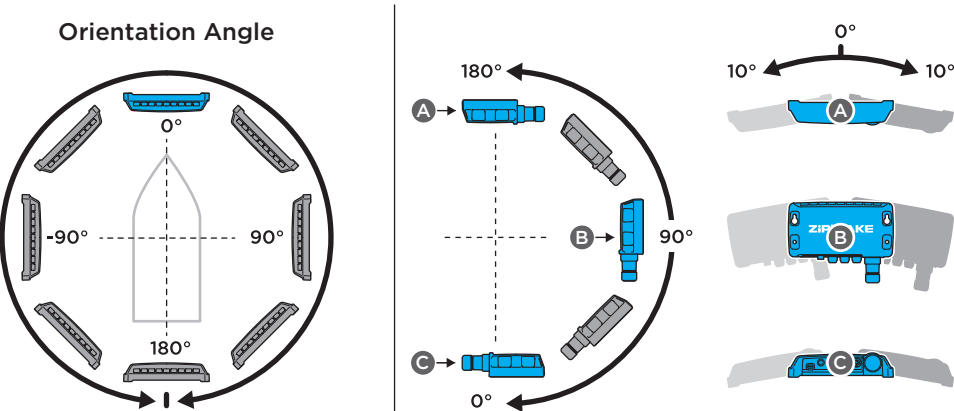

2. Fasten screws (x4)
T25 (ST 4.8x38)





MOUNTING RESTRICTIONS

Mount the integrator module within the angles shown below.



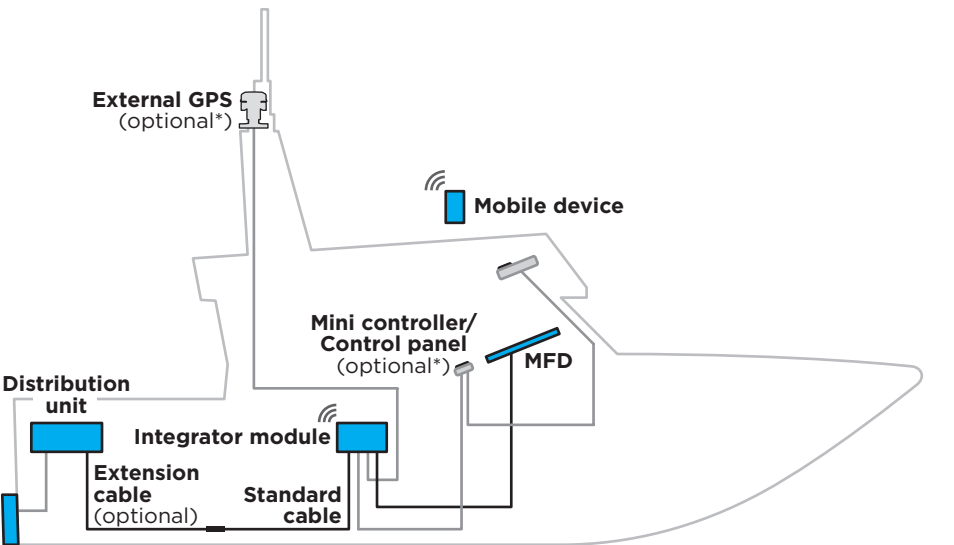
NOTE!

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

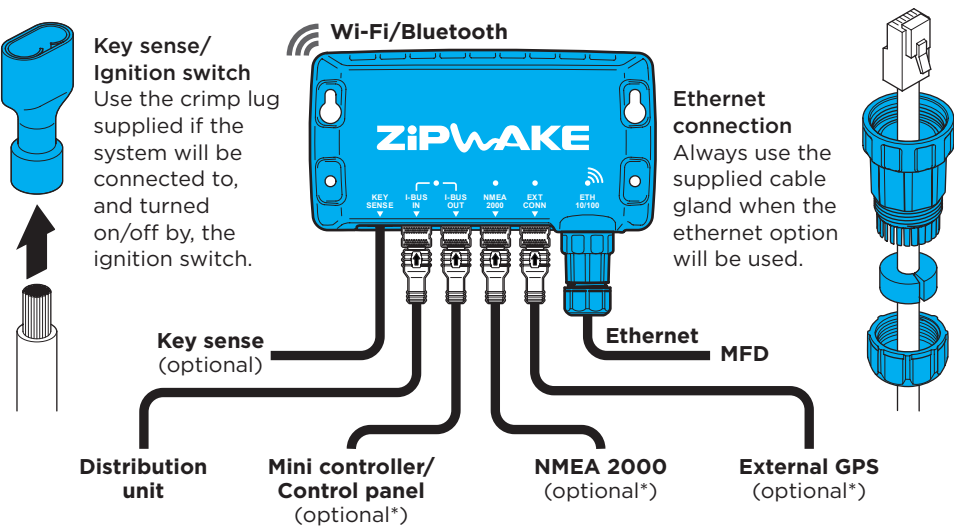
Route the cables between the integrator module, the distribution unit and optional multifunction display (MFD) and/or other equipment. Use optional extension cables if necessary.



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

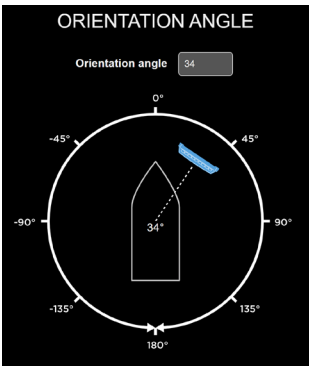
Scan the QR-code on the integrator module label **1** to connect to the Wi-Fi network (also available from the System Information page when the Zipwake application is installed). Scan the QR-code from integrator module label **2** to launch the Zipwake application (APP) and add it to the device start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

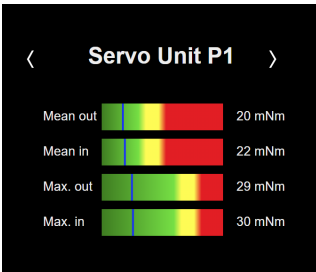


INTERCEPTOR CHECK

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

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.

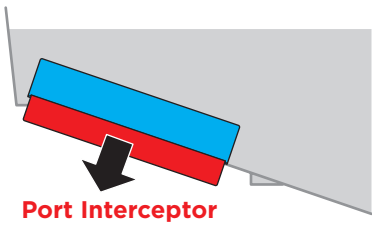


VERIFY FUNCTION ON SHORE

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

IMPORTANT

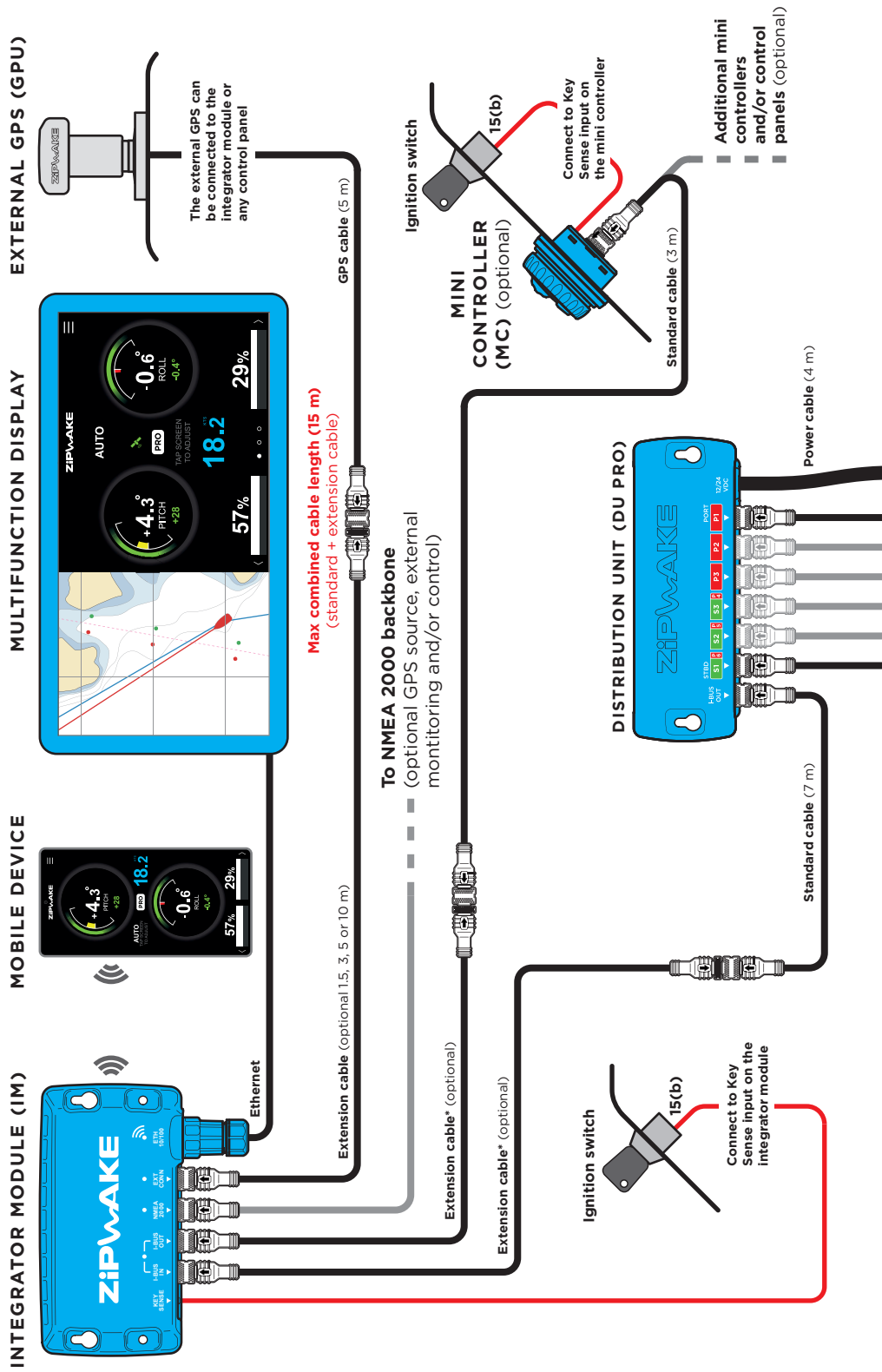
Always use the controls to move the Interceptor blades. Never try to force the Interceptor blades by hand.



WIRING DIAGRAM

ACCESSORIES

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



NOTE!
Transom inside view

A detailed diagram of a spark plug. The central electrode is at the top, and the ground electrode is at the bottom. The gap between them is clearly marked with a double-headed arrow and labeled 'GAP'.

**x combined cable length (6
(standard + extension cable))**

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

15A melting type fuse

o Cleaning

**Mai
switch**

switch

Battery

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.

Starboard Interceptor 1

Starboard Interceptor 2

Starboard Interceptor 3

Port Interceptor 3

Port Interceptor 2

Port Interceptor 1

PORT

(3 m)

(3 m)

(3 m)

—

(3 m)

(3 m)

(3 m)

Optional:
Centerline mounted
Series S Pro interceptor
connected to P3

Optional:

—

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.