

DYNAMIC TRIM CONTROL SYSTEM

FOR INTEGRATION

SERIES S

INSTALLATION GUIDE

ZIPWAKE

CHOOSE COMFORT. ENJOY PERFORMANCE.

TOOLS

Drill bits
 Ø 2.5 mm (3/32")
 Ø 3 mm (1/8")
 Ø 3.5 mm (9/64")
 Ø 4 mm (5/32")
 Ø 5 mm (3/16")



Hole saw
 Ø 19 mm (3/4")



Screw bits
 T10
 T20
 T25
 T30



Power drill



Sealant



Flat screwdriver



Bits screwdriver



Wrench

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



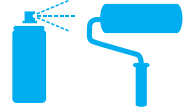
Utility knife



Hacksaw

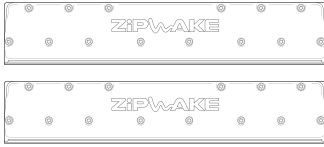


Antifouling



KIT BOX CONTENTS

INTERCEPTOR



2 x Interceptors
 with Cable 3 m & Cable Cover

DISTRIBUTION UNIT



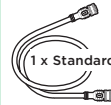
1 x Distribution Unit
 with Power Cable 4 m

INTEGRATOR MODULE



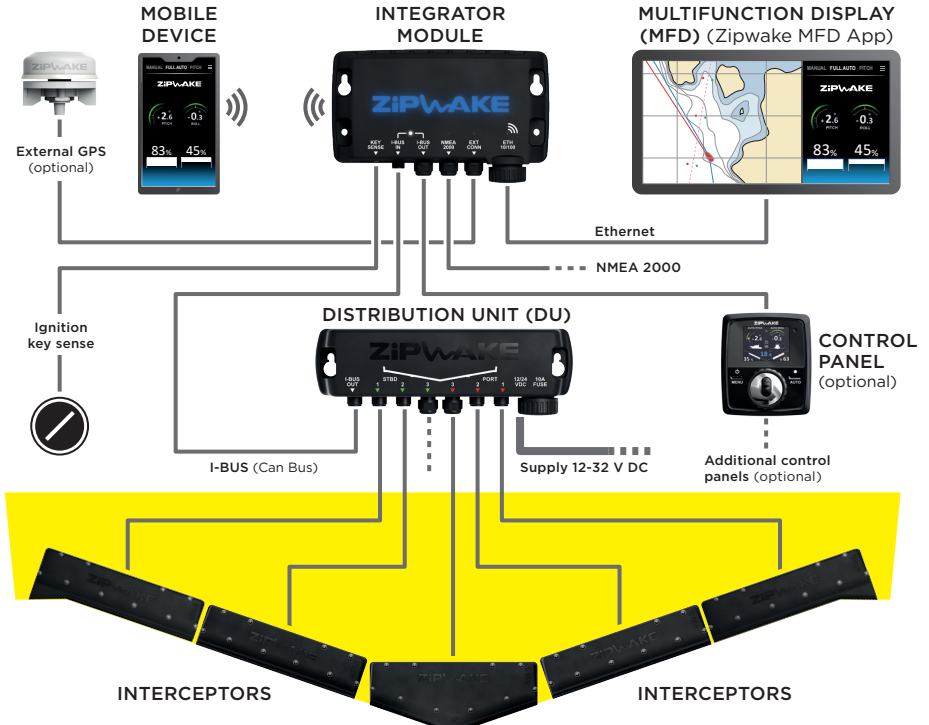
1 x Integrator Module

- + 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

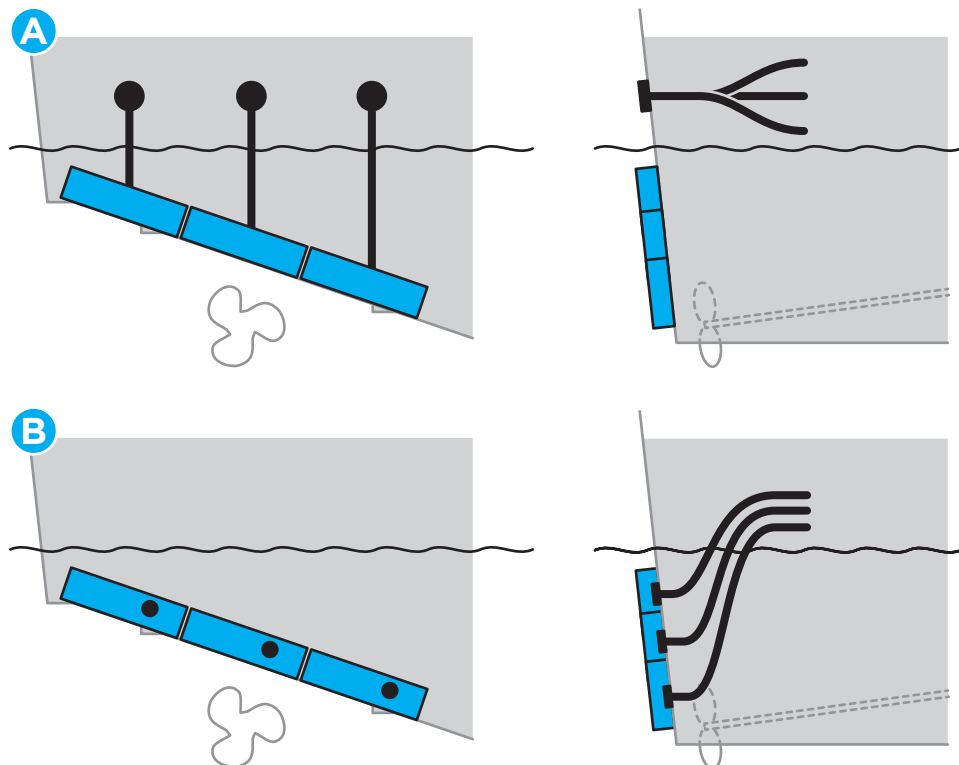


INTERCEPTOR

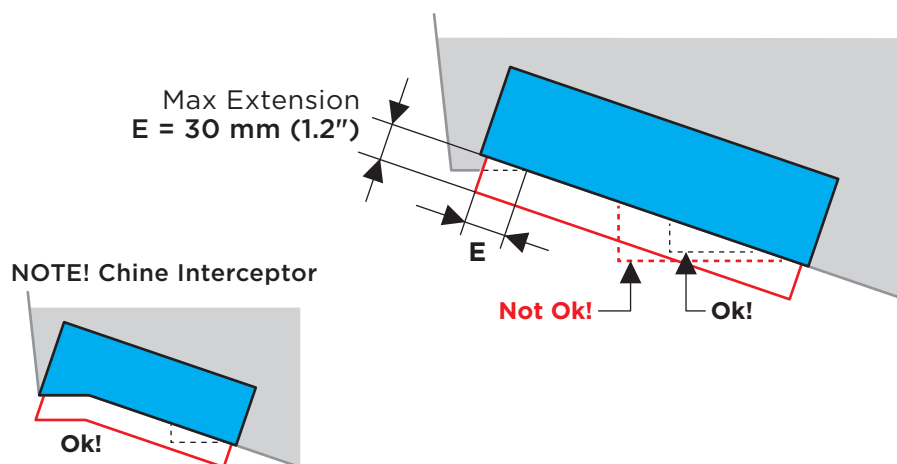
1 MOUNTING OPTIONS

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

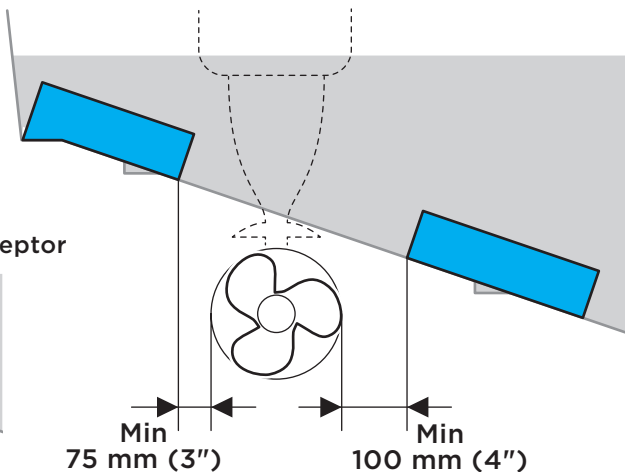
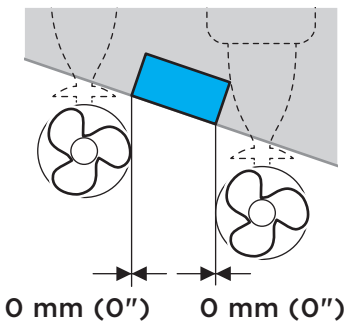


INTERCEPTOR

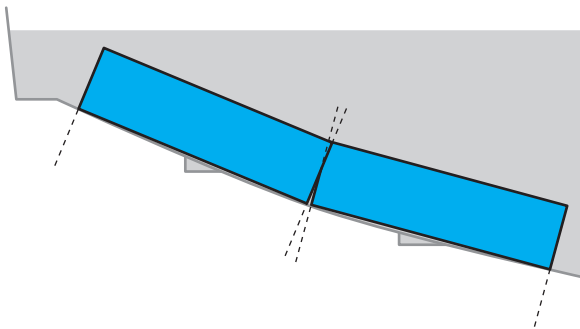
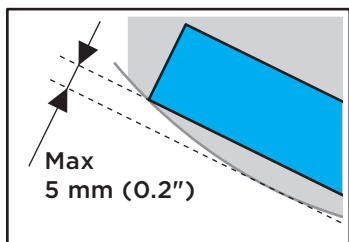
PROPELLER CLEARANCE

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

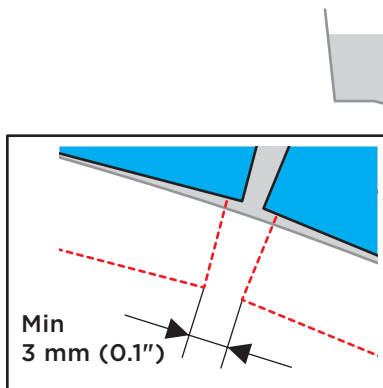
NOTE! Intermediate Interceptor



CONVEX BOTTOM CURVATURE



CONCAVE BOTTOM CURVATURE

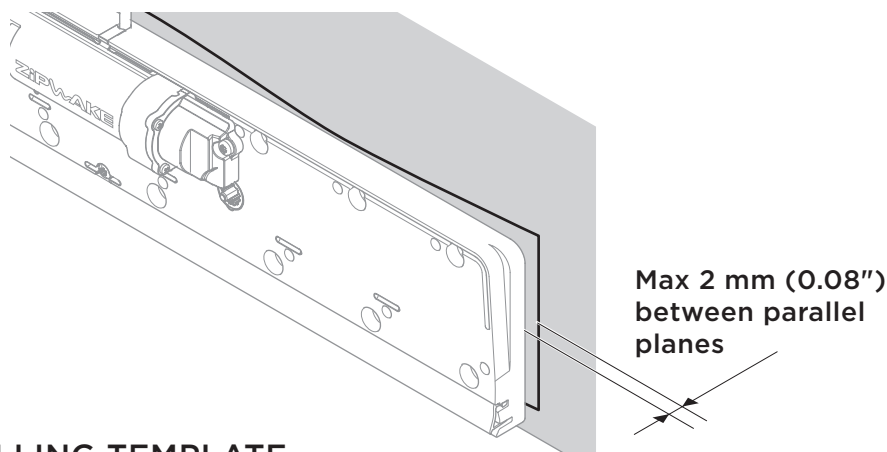


INTERCEPTOR

2 PREPARE THE TRANSOM

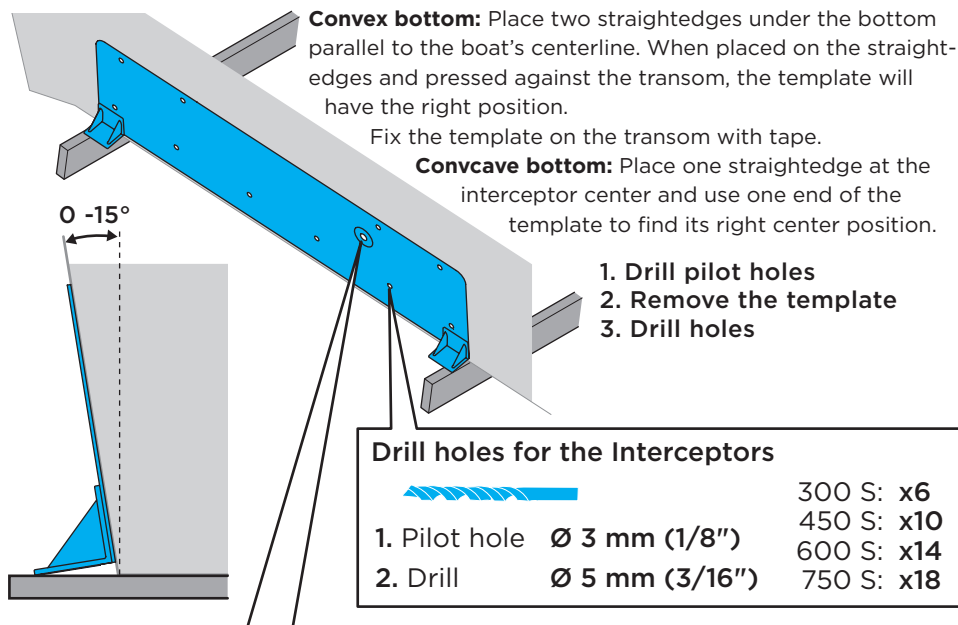
ENSURE A FLAT SURFACE FOR EACH INTERCEPTOR

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):

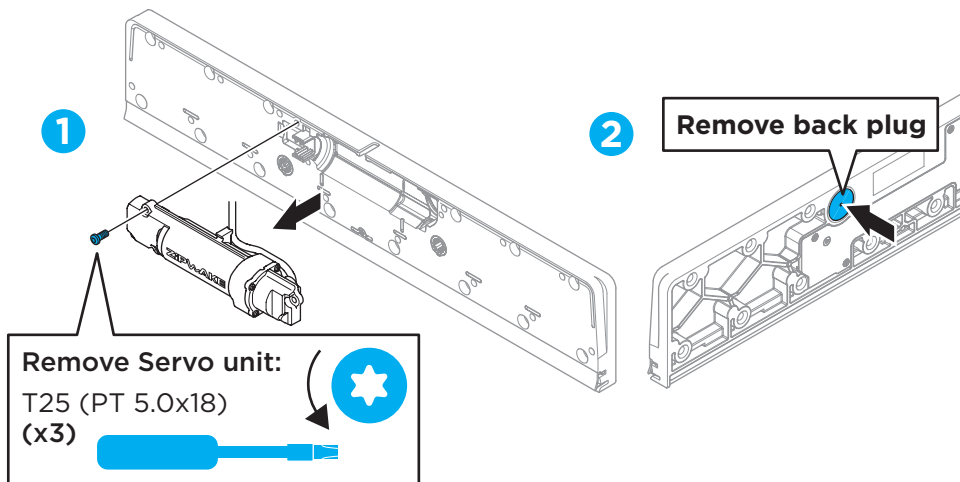
1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 16 mm (5/8")
3. Tap M18 x 2.5



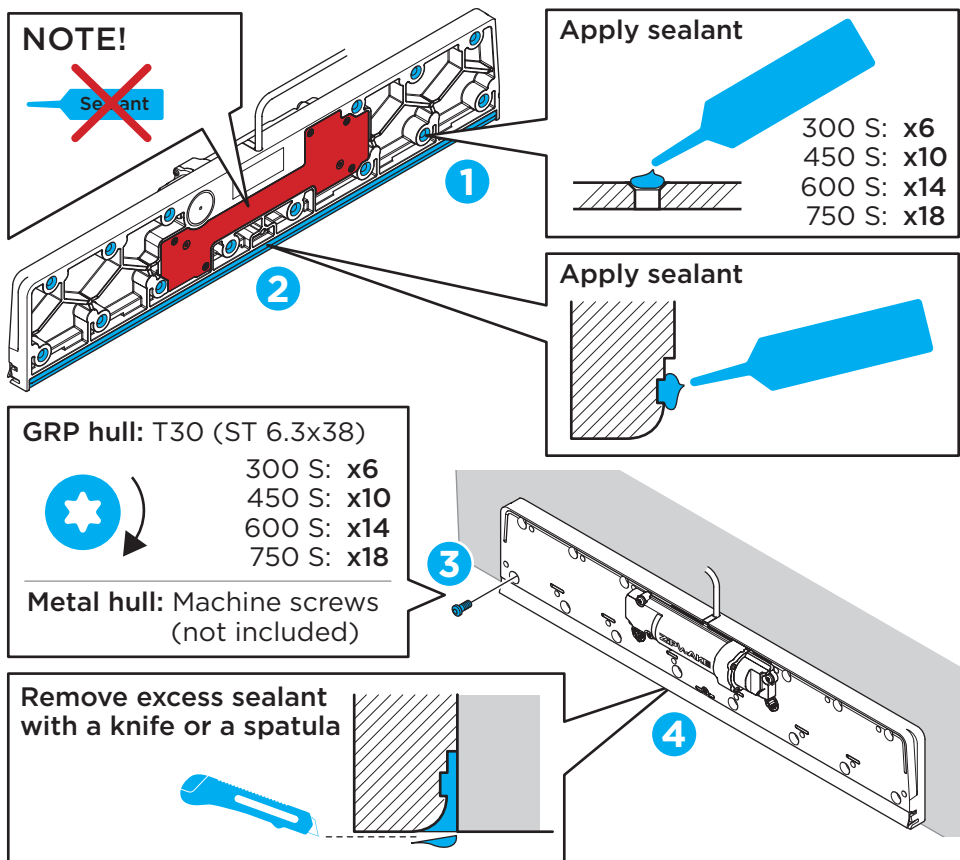
INTERCEPTOR

3 INSTALL THE BACK PLATES

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



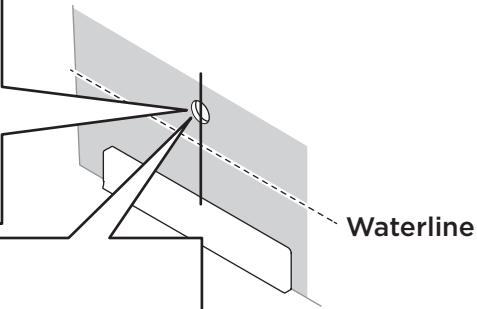
B. MOUNT THE BACK PLATE



INTERCEPTOR

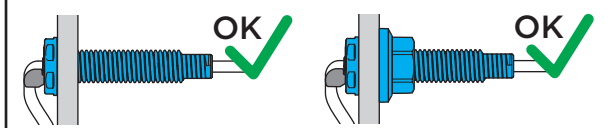
4A INSTALL THRU-HULL FITTINGS ABOVE THE WATERLINE

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



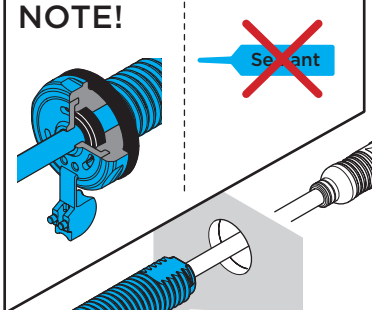
1. Pilot hole \varnothing 3 mm (1/8")
2. Hole saw \varnothing 19 mm (3/4")

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




Waterline

2 NOTE!




Sealant

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

Place the cable in the clip

3

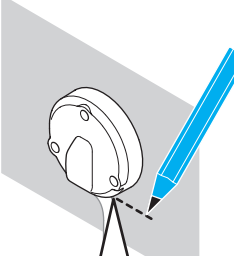
Hold: 
13 mm (33/64") wrench

4



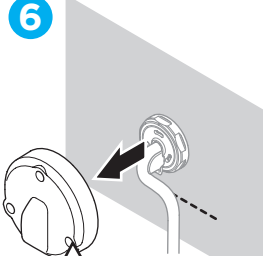
Place the cover on the thru-hull fitting

5



Mark the lower edge of the thru-hull cover

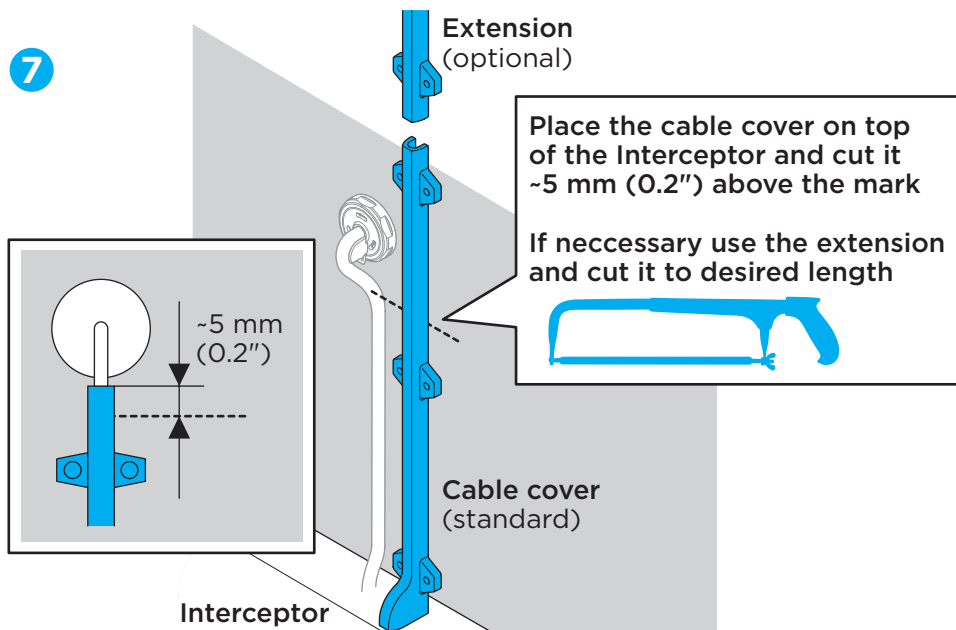
6



Remove the thru-hull cover

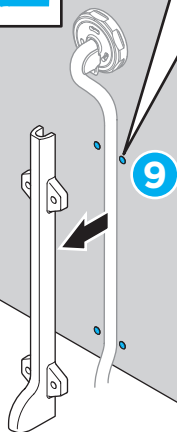
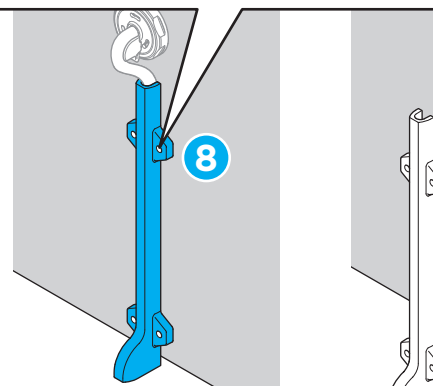
INTERCEPTOR

7



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

Apply sealant



Cable cover:

GRP hull:
T20 (ST 4.2x19)

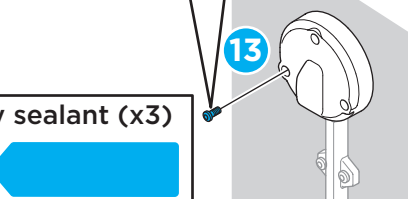
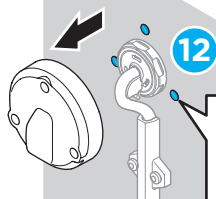
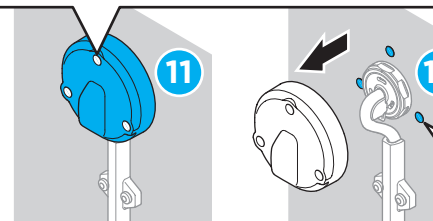
Metal hull: Machine screws
(not included)

Drill holes (x3) for the cover
Use the cover as a drill template
Ø 5 mm (3/16")

Thru-hull cover:

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

Metal hull: Machine screws
(not included)

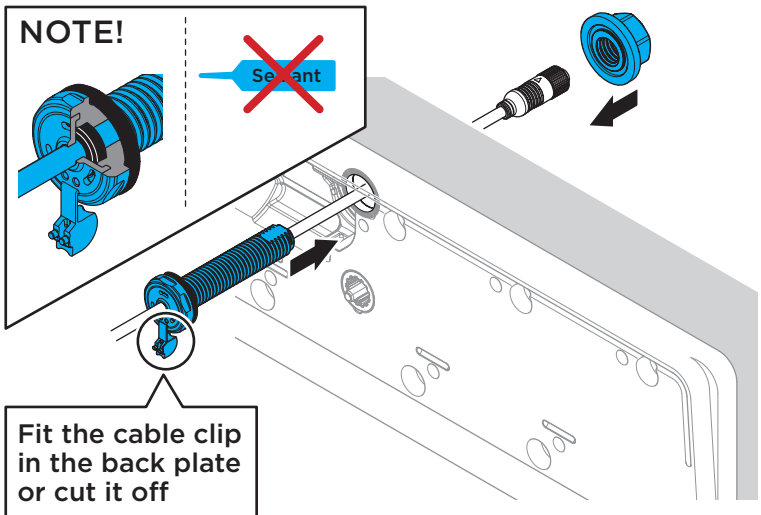


INTERCEPTOR

4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

1


NOTE!



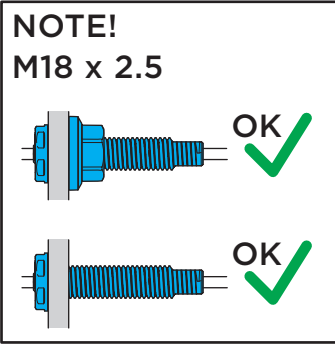
Sealant

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)

NOTE!
M18 x 2.5



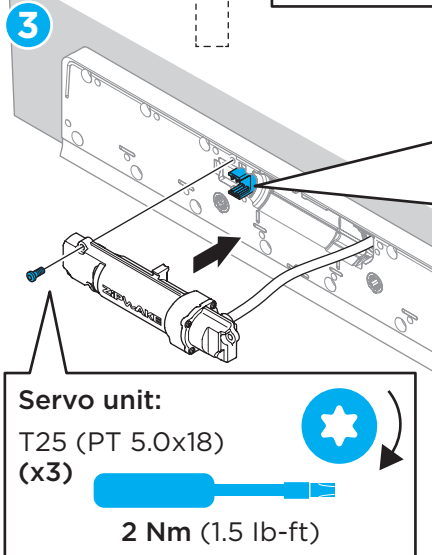
OK

OK

Hold:  13 mm (33/64") wrench

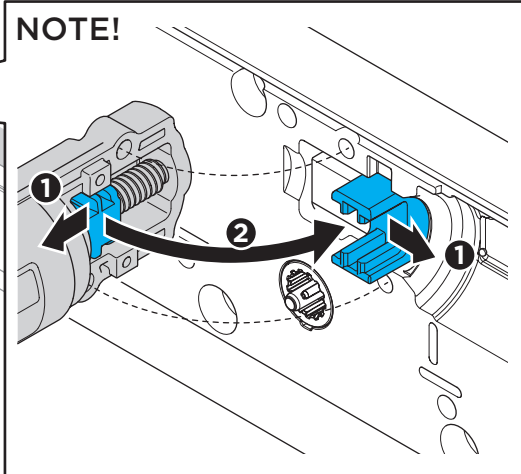
3

NOTE!



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

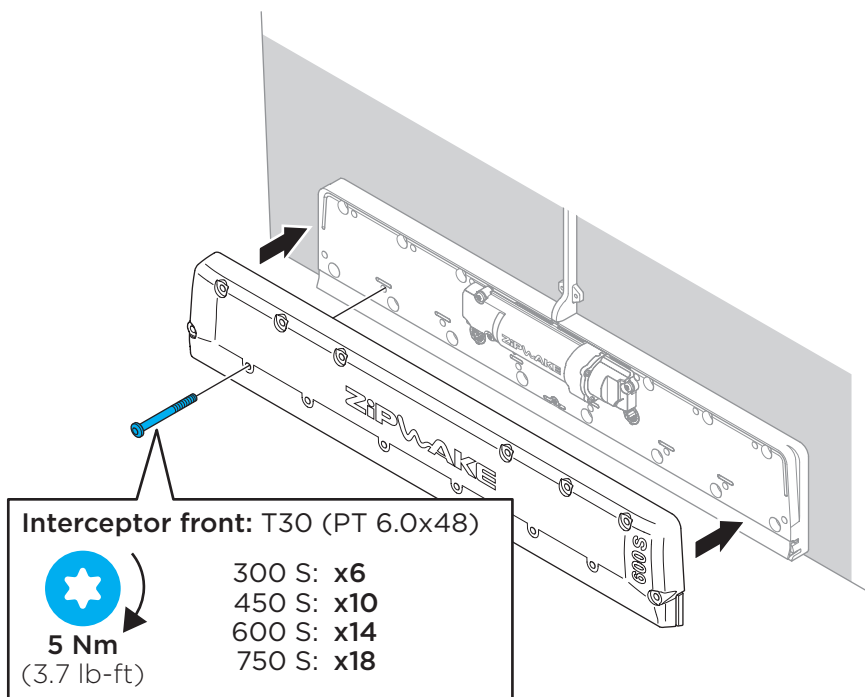
2 Nm (1.5 lb-ft)



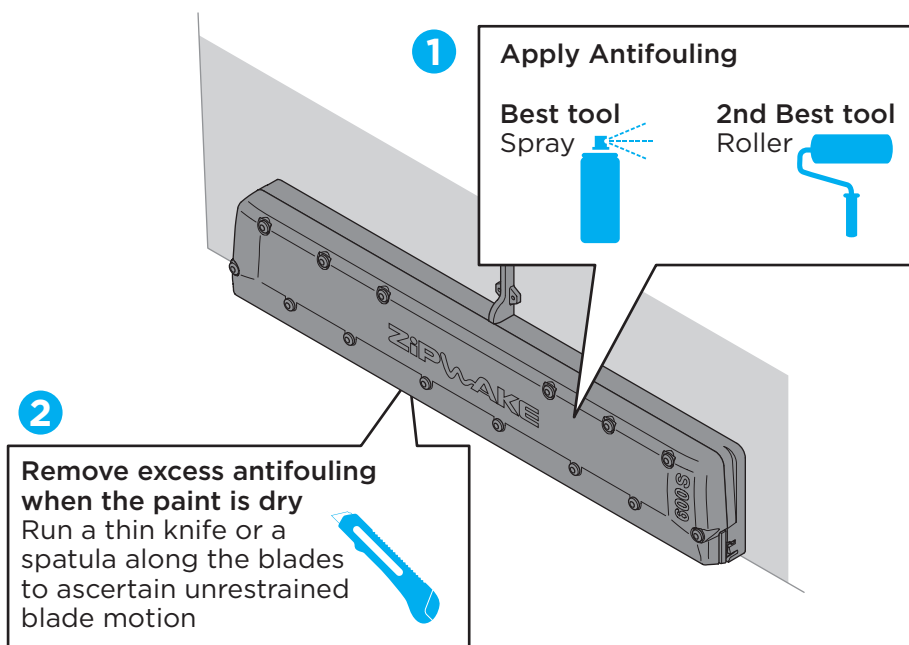
NOTE!

INTERCEPTOR

5 INSTALL THE INTERCEPTOR FRONTS



6 PAINT THE INTERCEPTORS WITH ANTIFOULING



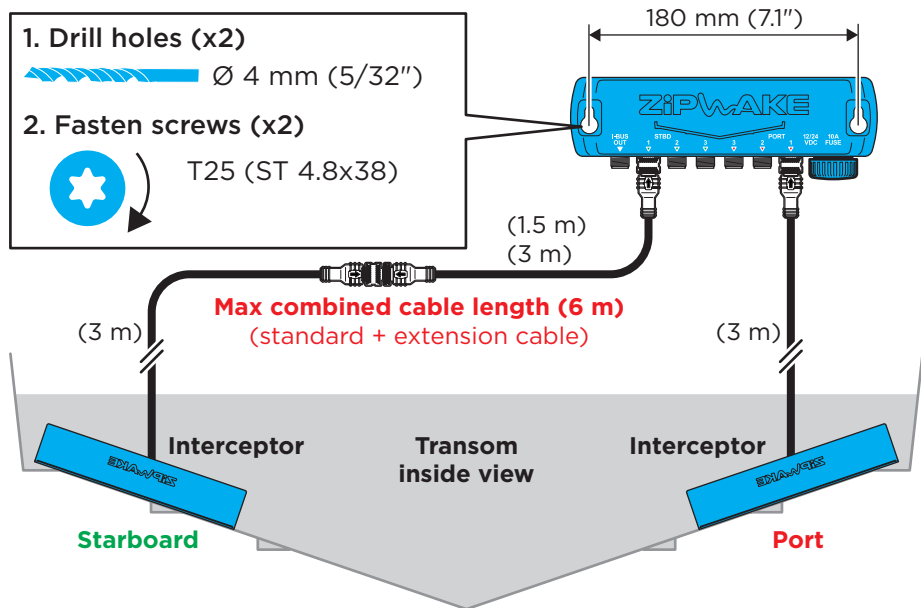
DISTRIBUTION UNIT

1 MOUNT THE DISTRIBUTION UNIT

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

NOTE!

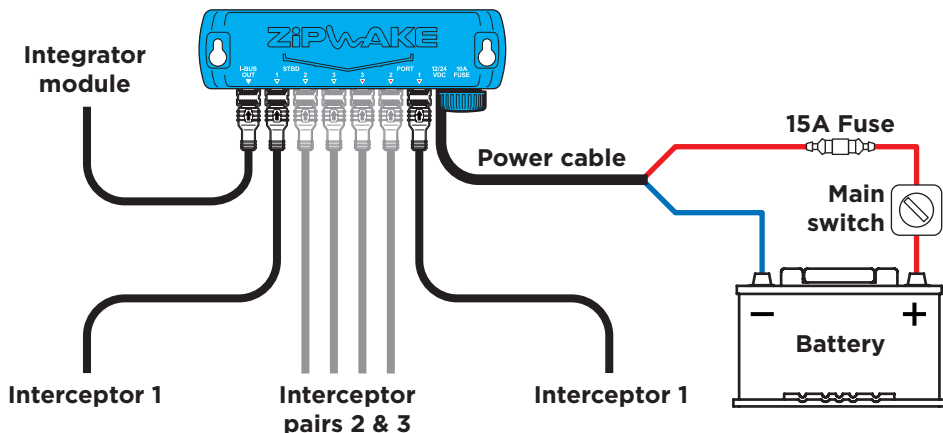
The maximum cable length (including extra cable) from an interceptor to the distribution unit is 6 m (20 ft).



2 CONNECT THE DISTRIBUTION UNIT

NOTE!

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



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.



INTEGRATOR MODULE

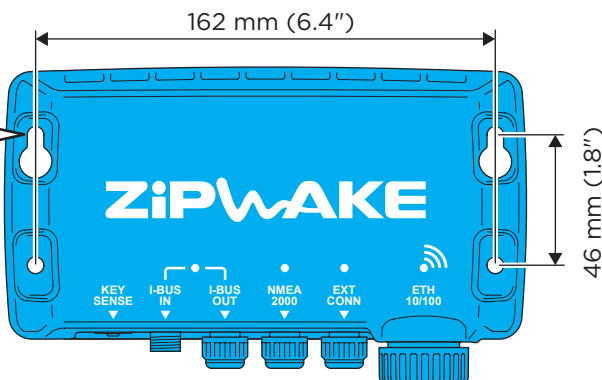
1 MOUNT THE INTEGRATOR MODULE

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!

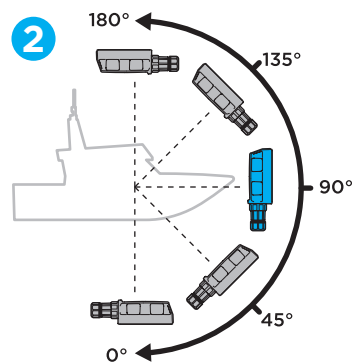
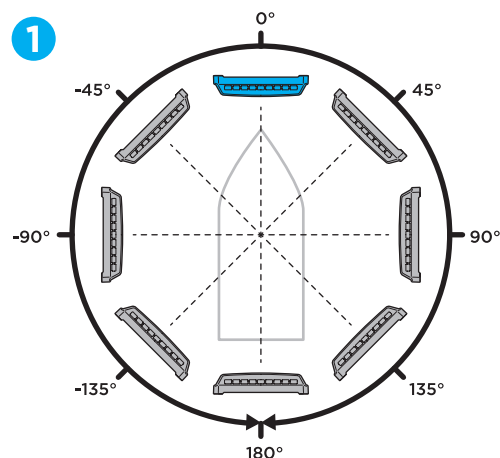
0.5 m (1.6 ft) safe distance to magnetic compass.

1. Drill holes (x4)
Ø 4 mm (5/32")

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




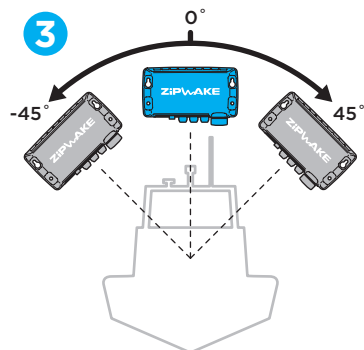
Mounting restrictions

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



NOTE!

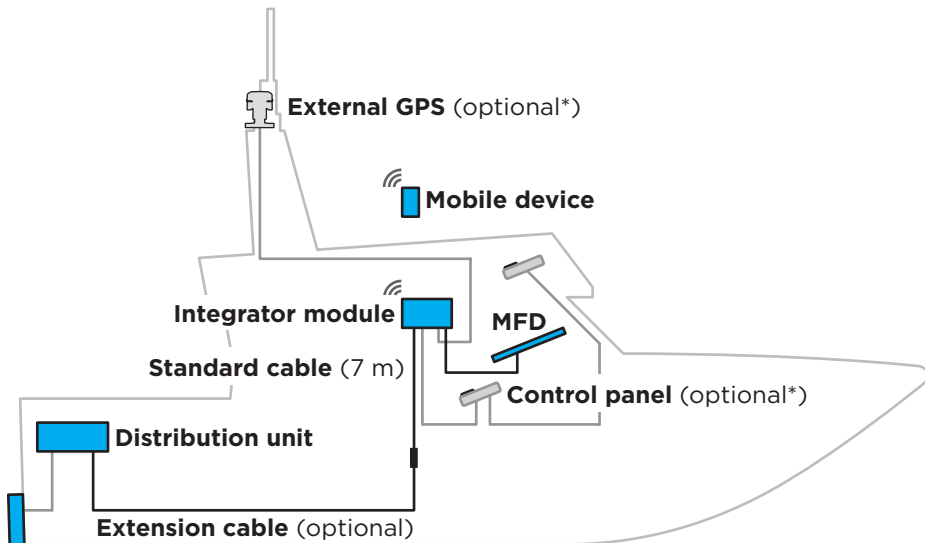
Make sure the integrator module orientation angle (mounting angle relative the boat's forward direction) is set as accurately as possible ($\pm 5^\circ$) during initial start-up.



INTEGRATOR MODULE —

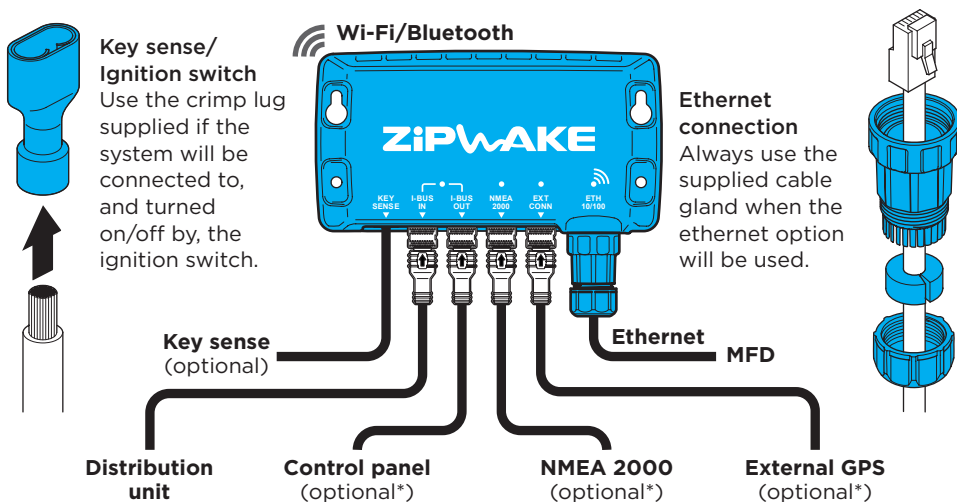
2 CONNECT THE INTEGRATOR MODULE

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 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.

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.

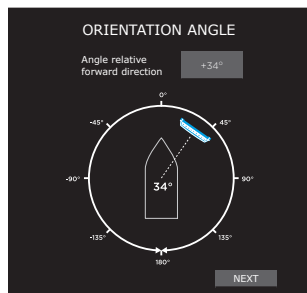
MOBILE DEVICE

Scan the QR-code 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.

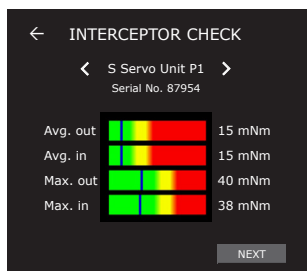


INTERCEPTOR CHECK

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

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.

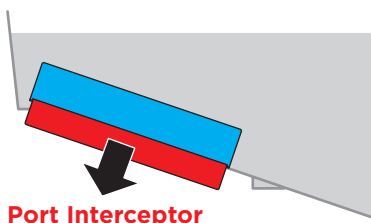


IMPORTANT

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

VERIFY FUNCTION ON SHORE

1. Use the interface to extend the port interceptor
2. Port side Interceptor(s) should move out
3. Repeat for starboard side

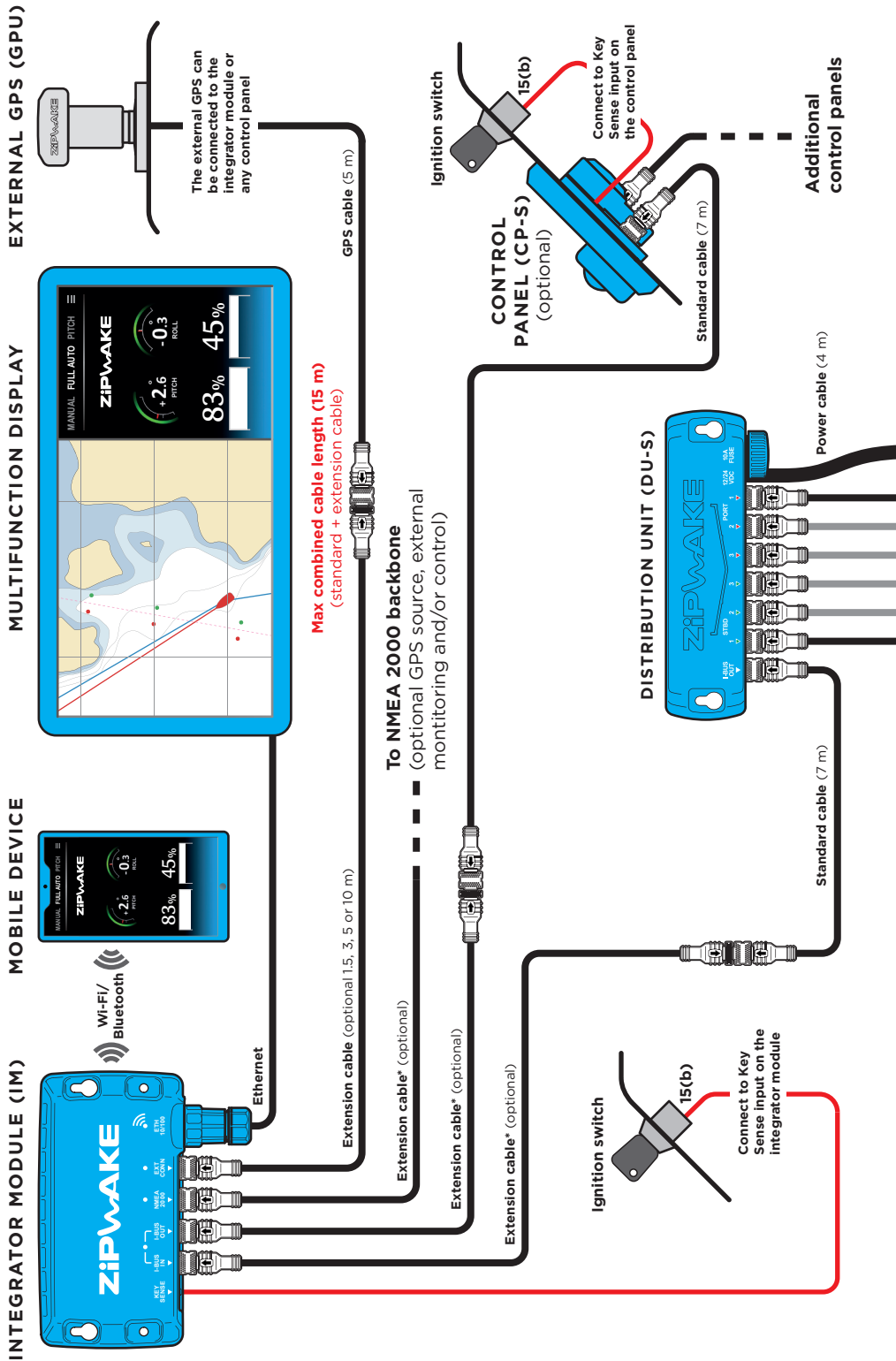


WIRING DIAGRAM

ACCESSORIES

Model	Part No.	Description
CP-S	2011238	CONTROL PANEL S WITH STANDARD CABLE 7 M
IT300-S	2011232	INTERCEPTOR 300 S WITH CABLE 3 M & CABLE COVERS
IT450-S	2011233	INTERCEPTOR 450 S WITH CABLE 3 M & CABLE COVERS
IT600-S	2011234	INTERCEPTOR 600 S WITH CABLE 3 M & CABLE COVERS
IT750-S	2011235	INTERCEPTOR 750 S WITH CABLE 3 M & CABLE COVERS
IT450-S V13	2011482	INTERCEPTOR 450 S V13 WITH CABLE 3 M & CABLE COVERS
IT450-S V16	2011483	INTERCEPTOR 450 S V16 WITH CABLE 3 M & CABLE COVERS
IT450-S V19	2011484	INTERCEPTOR 450 S V19 WITH CABLE 3 M & CABLE COVERS
IT450-S V22	2011485	INTERCEPTOR 450 S V22 WITH CABLE 3 M & CABLE COVERS
IT300-S CHINE PORT	2011702	INTERCEPTOR 300 S CHINE PORT SIDE WITH CABLE 3 M & CABLE COVERS
IT300-S CHINE STBD	2011703	INTERCEPTOR 300 S CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVERS
IT450-S CHINE PORT	2011704	INTERCEPTOR 450 S CHINE PORT SIDE WITH CABLE 3 M & CABLE COVERS
IT450-S CHINE STBD	2011705	INTERCEPTOR 450 S CHINE STARBOARD SIDE WITH CABLE 3 M & CABLE COVERS
IT300-S INTER	2011701	INTERCEPTOR 300 S INTERMEDIATE WITH CABLE 3 M & CABLE COVERS
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
CC-S	2011071	CABLE COVER S KIT
GPU	2011240	GLOBAL POSITIONING UNIT WITH CABLE 5 M & MOUNT KIT

WIRING DIAGRAM



WIRING DIAGRAM

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

NOTE!
Transom inside view



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

Extension cable (optional 1.5 or 3 m)

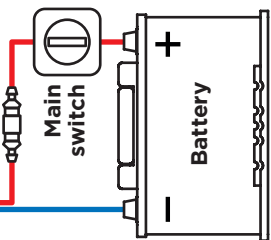
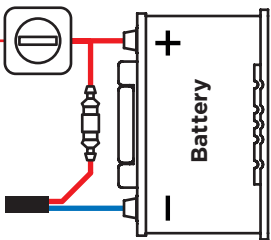
POWER SUPPLY (12-32 V DC)

NOTE! Do not use automatic thermal/magnetic fuse.

15A melting type fuse

Main switch

Auto Cleaning



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

Starboard Interceptor 1

Starboard Interceptor 2

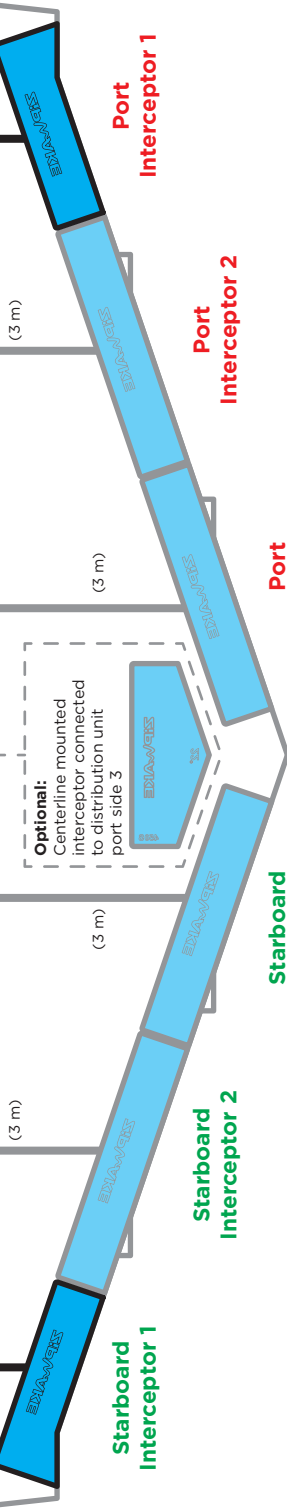
Starboard Interceptor 3

Port Interceptor 1

Port Interceptor 2

Port Interceptor 3

PORT



Optional:
Centerline mounted interceptor connected to distribution unit port side 3

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

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