

DYNAMIC TRIM CONTROL SYSTEM

SERIES S

INSTALLATION GUIDE

ZIPWAKE

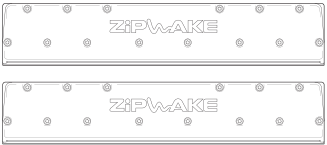
TRIM CONTROL MADE EASY

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 (13/64")	Hole saw Ø 19 mm (3/4") Ø 76 mm (3") Ø 16 mm (5/8") (optional)	Thread Tap (optional) M18 x 2.5	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

THE KIT BOX CONTAINS

INTERCEPTOR



2 x Interceptors
with Cable 3 m & Cable Cover

DISTRIBUTION UNIT



1 x Distribution Unit
with Power Cable 4 m

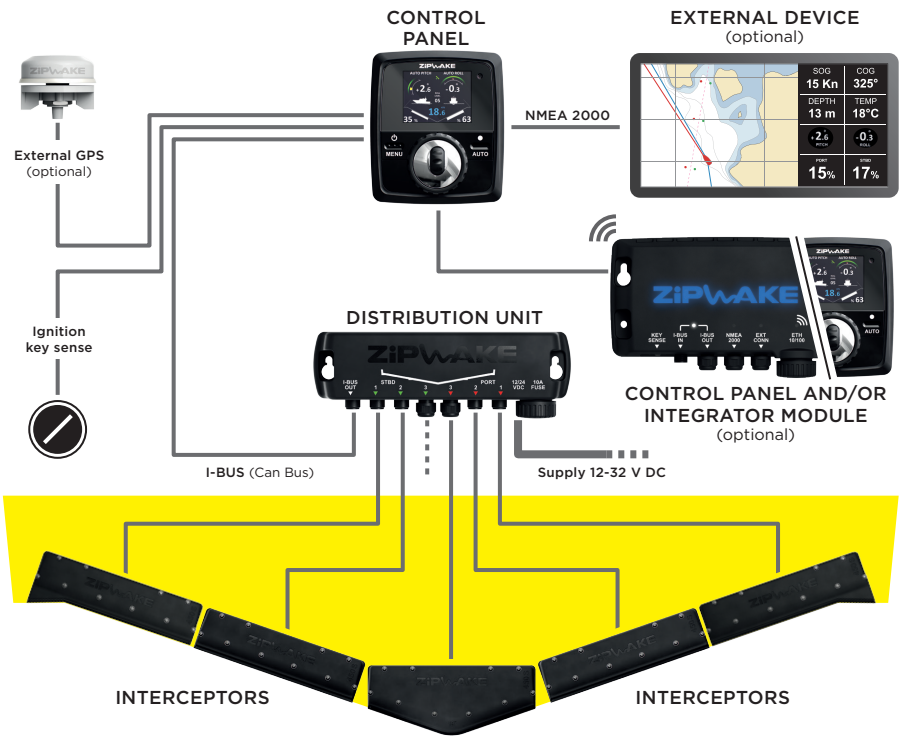
CONTROL PANEL



1 x Control Panel
with Standard Cable 7 m

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

SYSTEM OVERVIEW

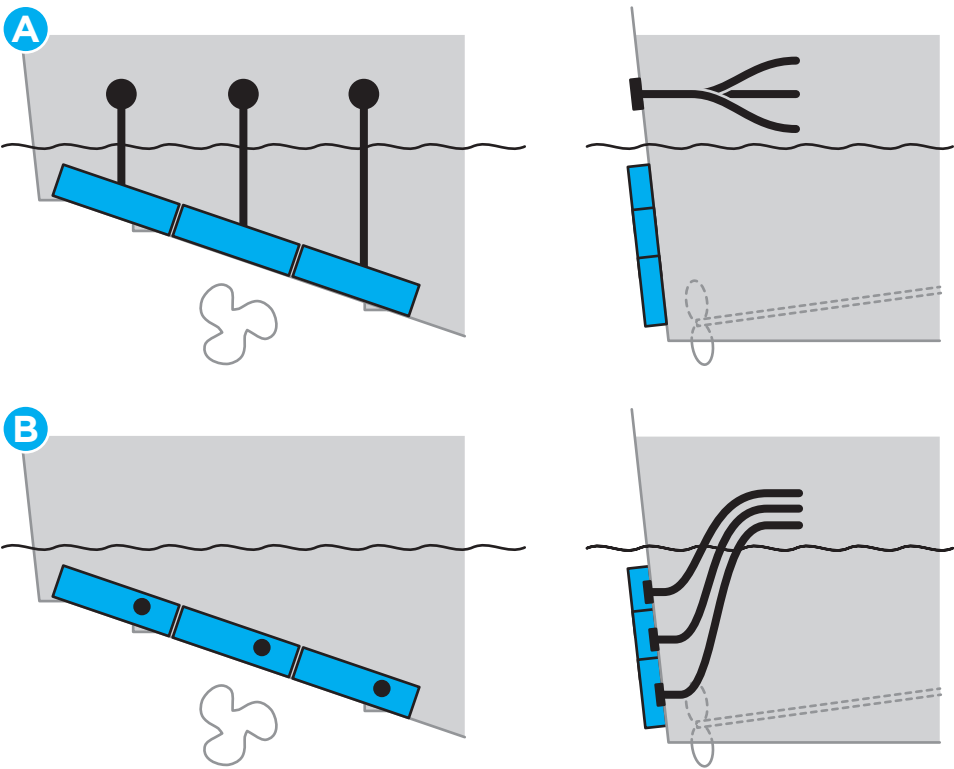


INTERCEPTOR

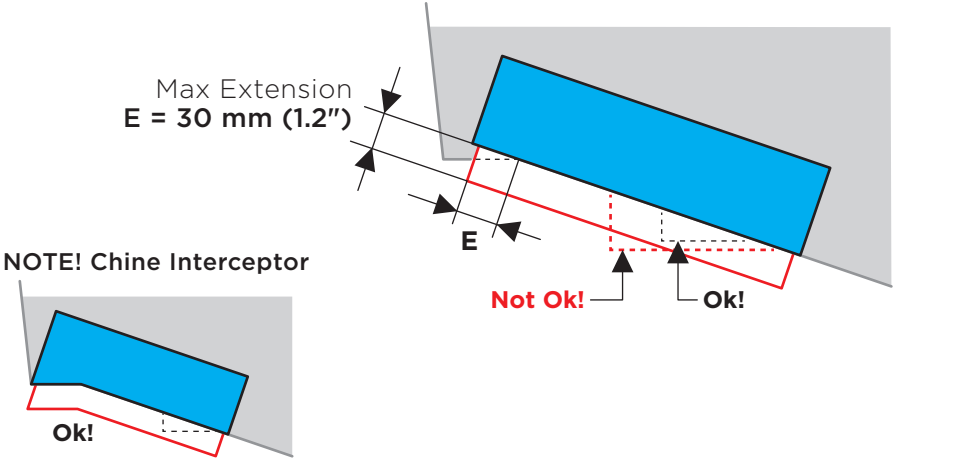
1 MOUNTING OPTIONS

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).



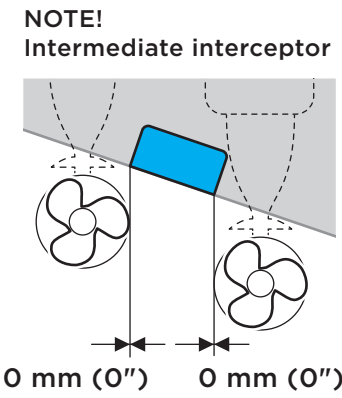
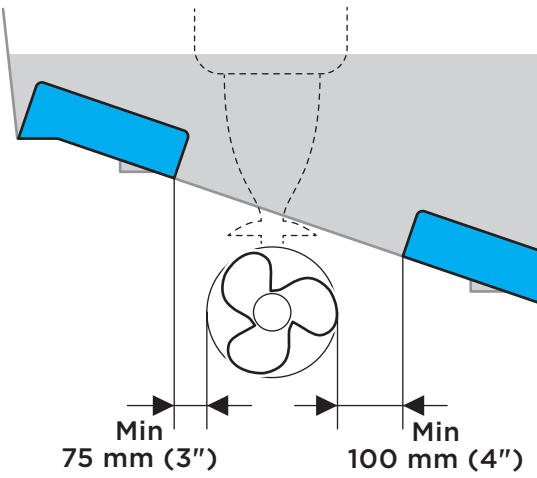
ALLOWED SPRAY RAIL OVERLAP



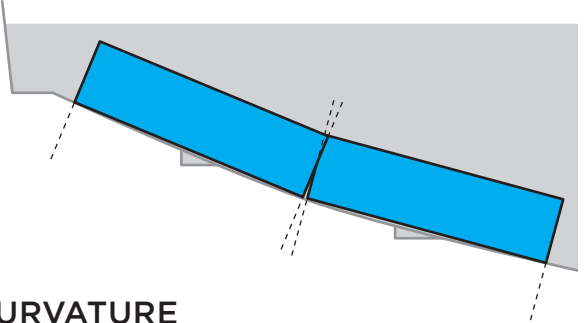
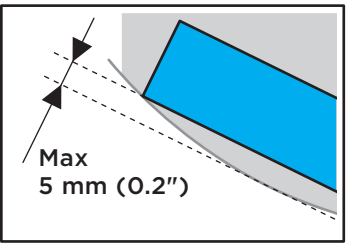
INTERCEPTOR

PROPELLER CLEARANCE

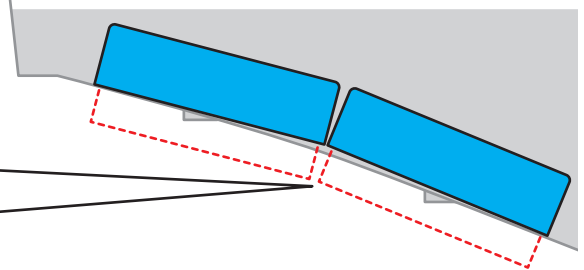
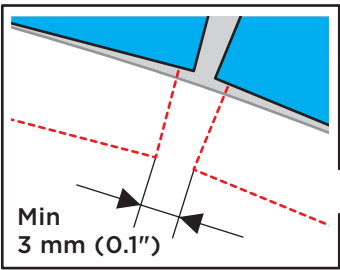
If the boat has an outboard engine or sterndrive, the Interceptors must be mounted with clearance to the propeller(s).



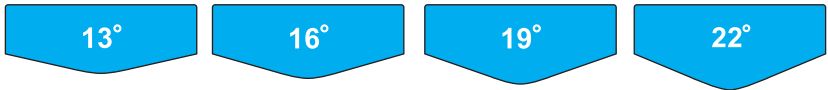
CONVEX BOTTOM CURVATURE



CONCAVE BOTTOM CURVATURE



OPTIONAL



V-shaped models for center mount

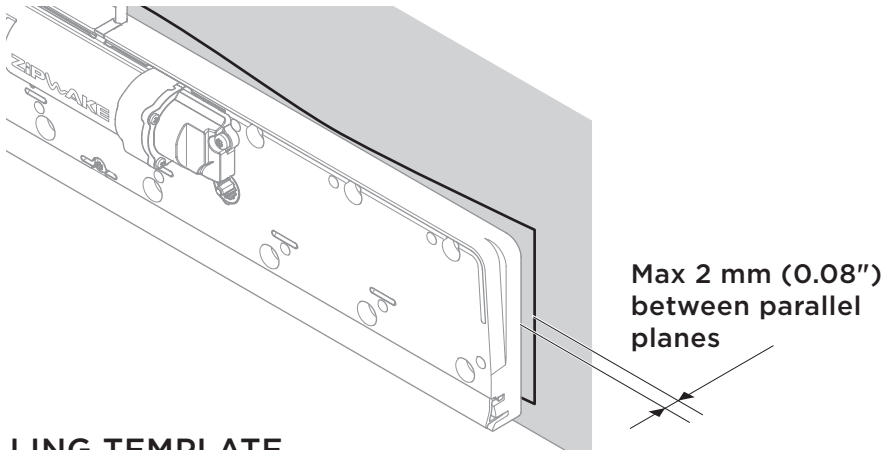
NOTE! Same tolerances and clearances as straight/chine interceptors.

INTERCEPTOR

2 PREPARE THE TRANSOM

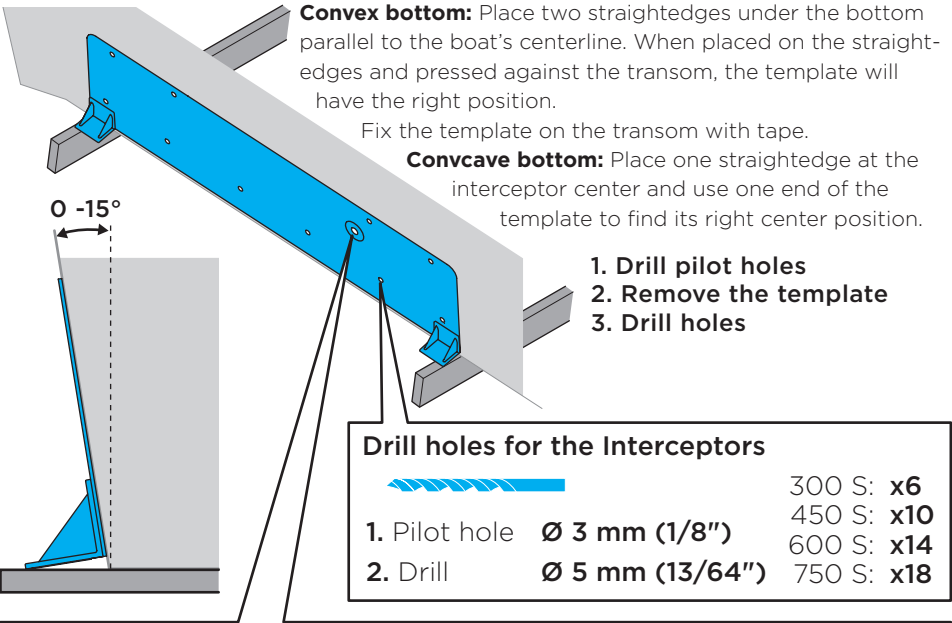
ENSURE A FLAT SURFACE FOR EACH INTERCEPTOR

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.



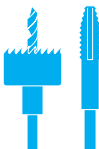
Only if a concealed thru-hull fitting will be used

Option 1:

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

Option 2 (threaded hole):

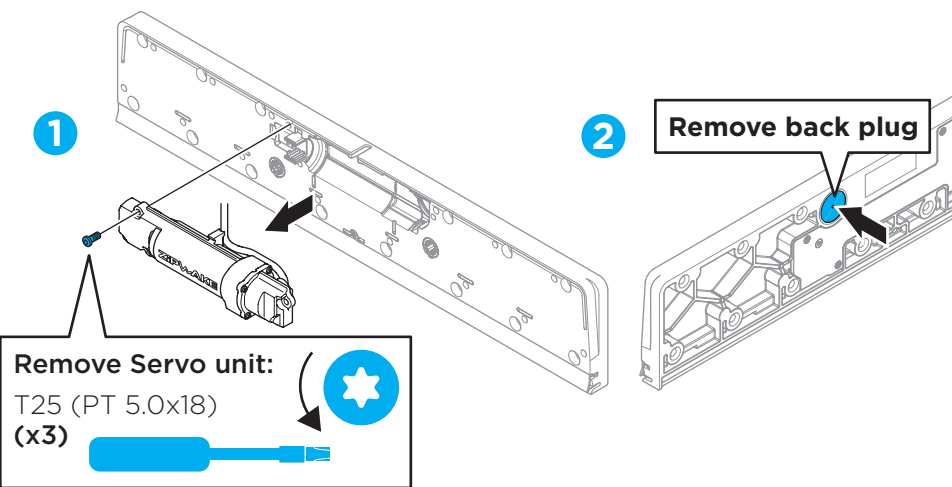
1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 16 mm (5/8")
3. Thread tap M18 x 2.5



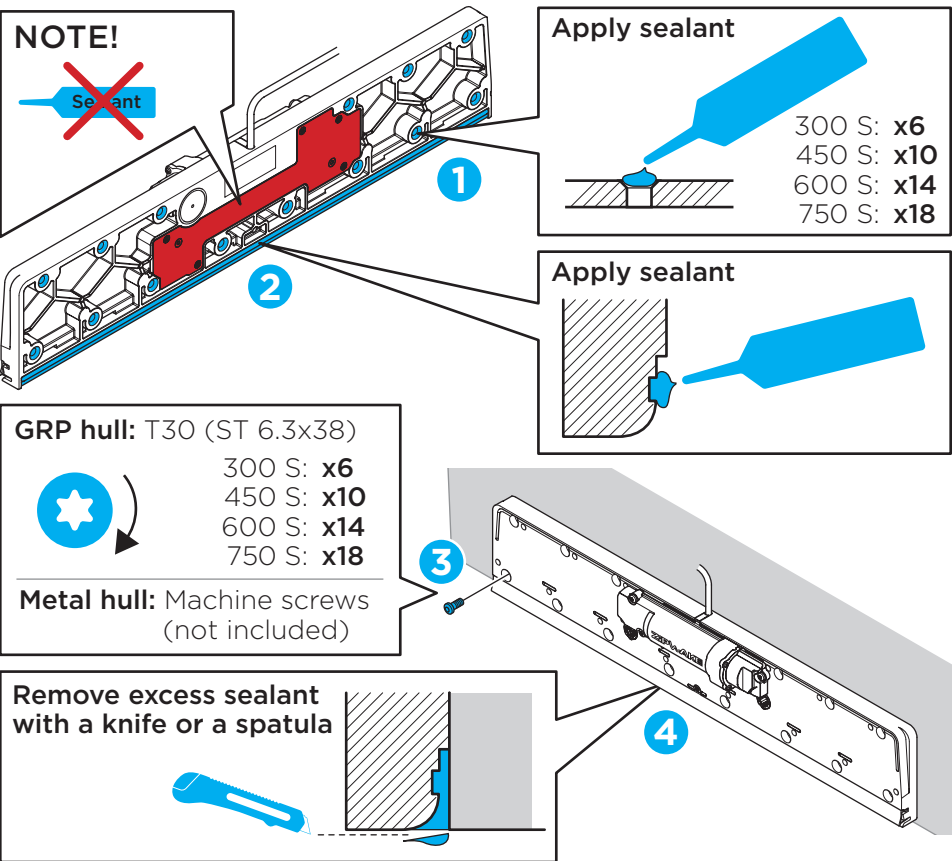
INTERCEPTOR

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

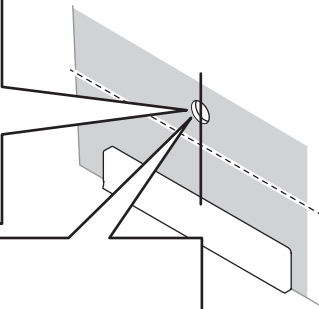


1. Pilot hole $\varnothing$ 3 mm (1/8")
2. Hole saw $\varnothing$ 19 mm (3/4")

Option:

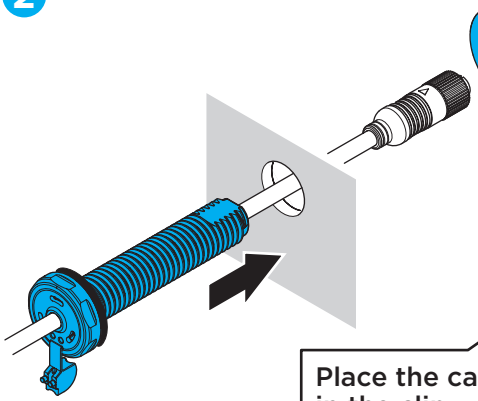
1. Pilot hole $\varnothing$ 3 mm (1/8")
2. Hole saw $\varnothing$ 16 mm (5/8")
3. Thread tap M18 x 2.5





Waterline

2



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

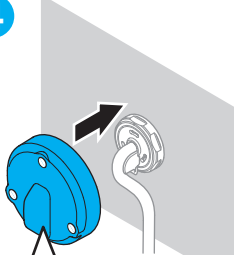
3

Place the cable in the clip



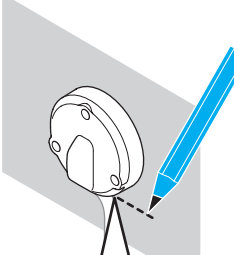
Hold: 
13 mm (33/64") wrench

4



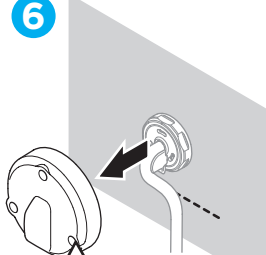
Place the cover on the thru-hull fitting

5



Mark the lower edge of the thru-hull cover

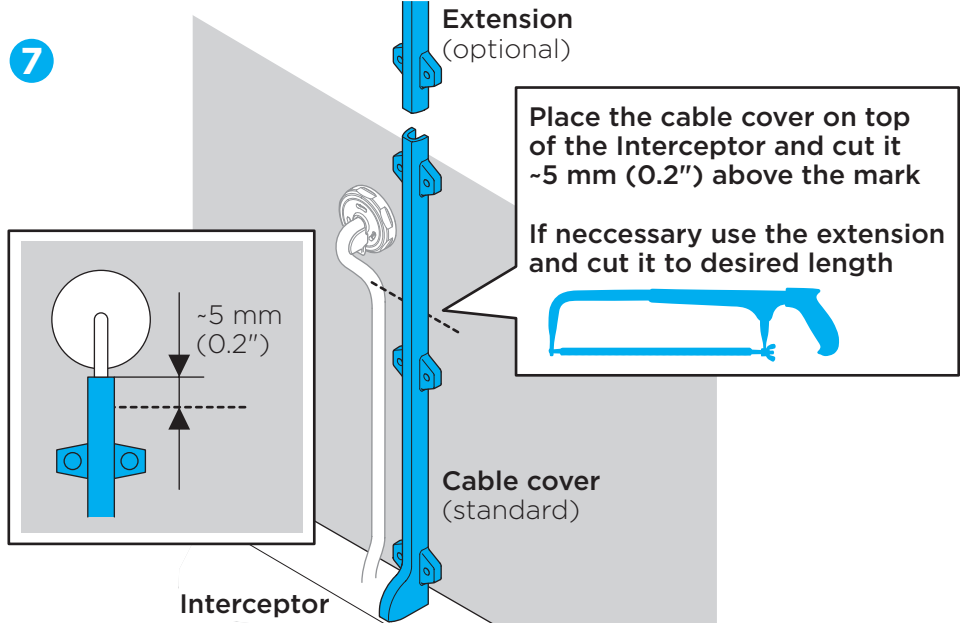
6



Remove the thru-hull cover

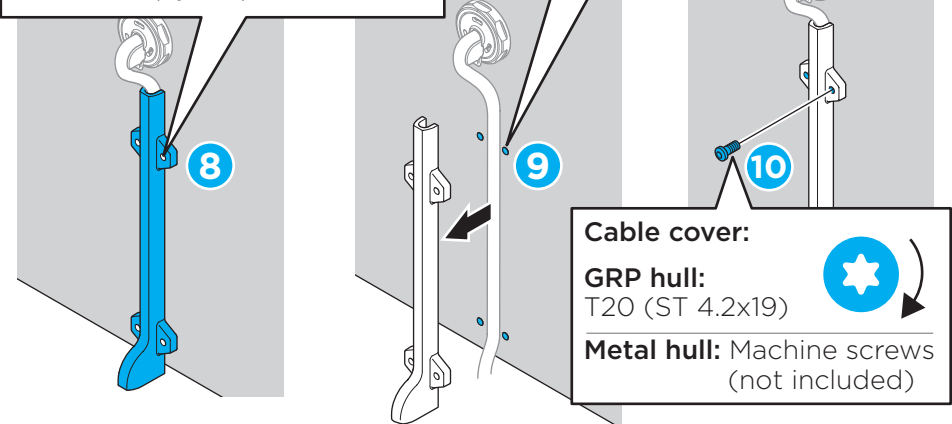
INTERCEPTOR

7



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

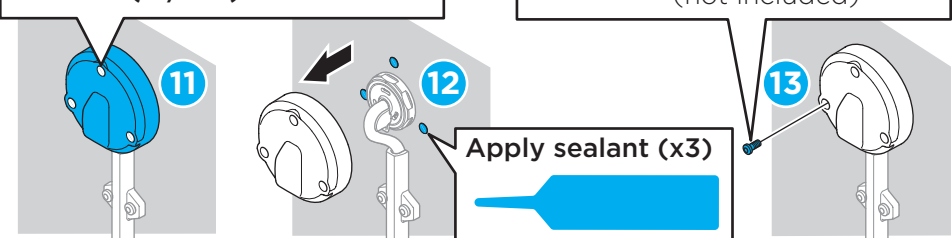
Apply sealant



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

Thru-hull cover:

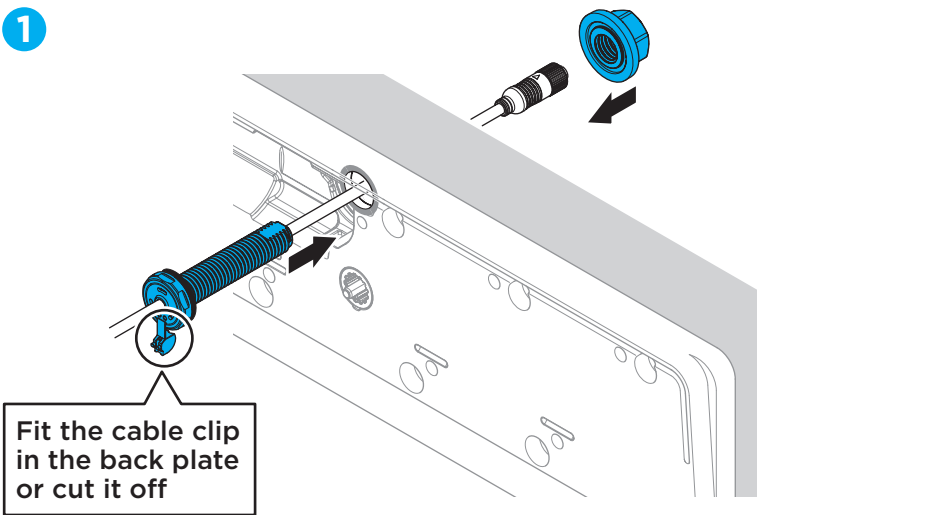
GRP hull:
T30 (ST 6.3x38) (x3)
Metal hull: Machine screws
(not included)



INTERCEPTOR

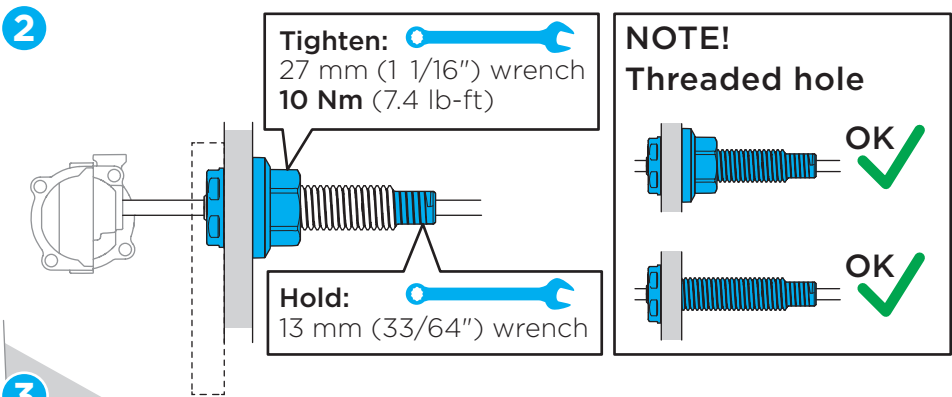
4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

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)

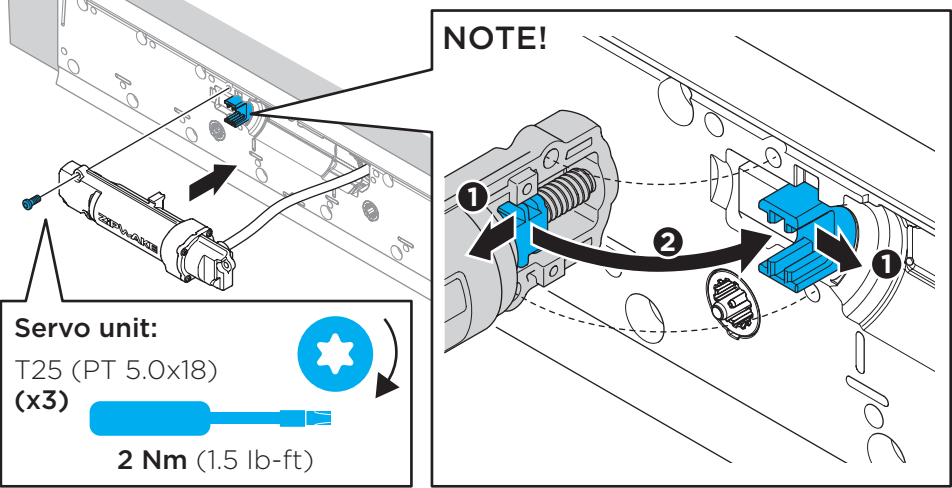
Hold: 13 mm (33/64") wrench

NOTE!
Threaded hole

OK

OK

3

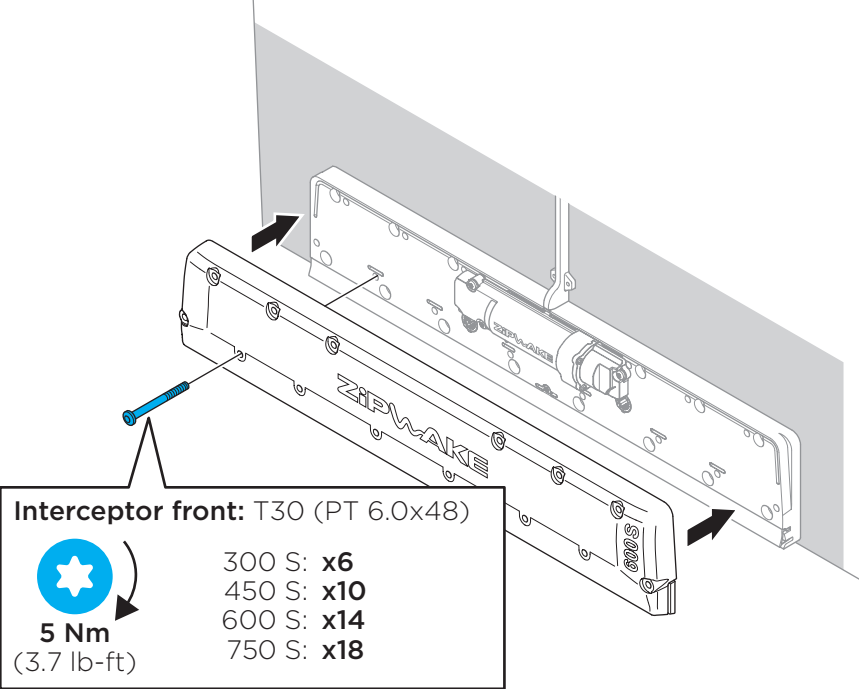


Servo unit:
T25 (PT 5.0x18)
(x3)
2 Nm (1.5 lb-ft)

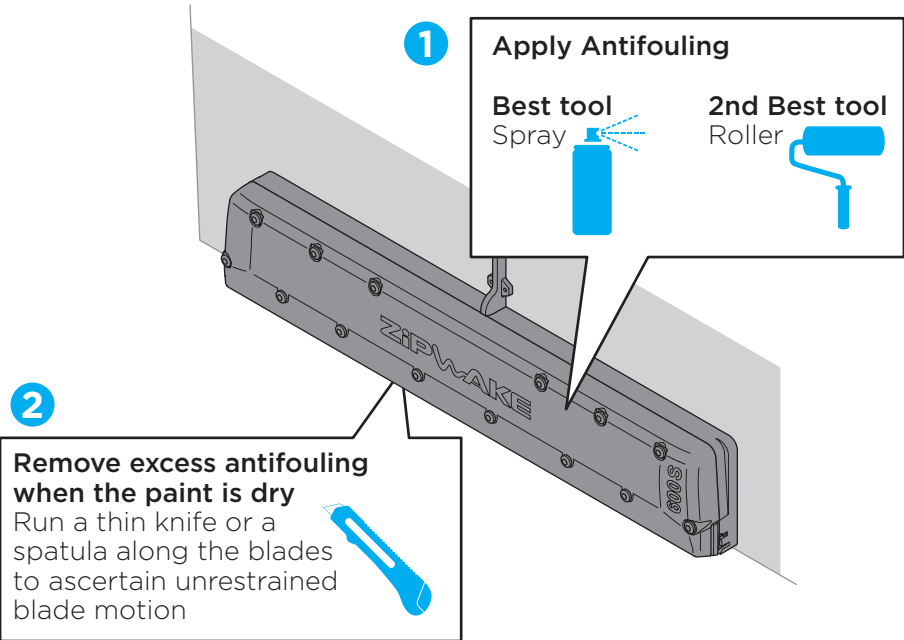
NOTE!

INTERCEPTOR

5 INSTALL THE INTERCEPTOR FRONTS



6 PAINT THE INTERCEPTORS WITH ANTIFOULING



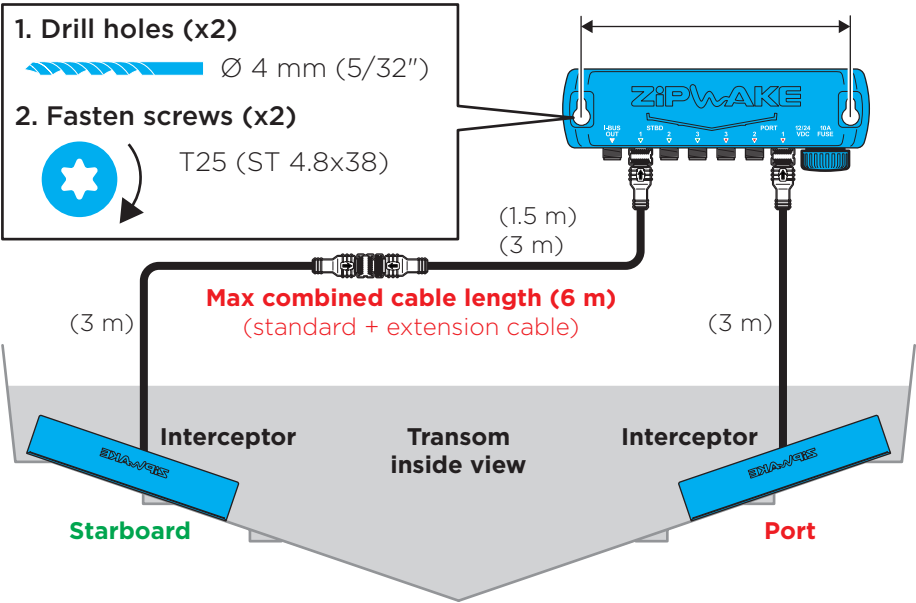
DISTRIBUTION UNIT

1 MOUNT THE DISTRIBUTION UNIT

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

NOTE!

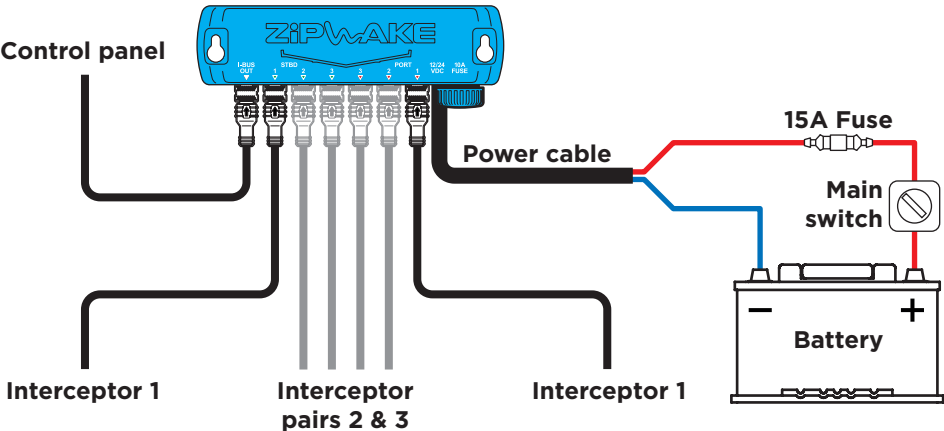
The maximum cable length (including extra cable) from an interceptor to the distribution unit is 6 m (20 ft).



2 CONNECT THE DISTRIBUTION UNIT

NOTE!

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

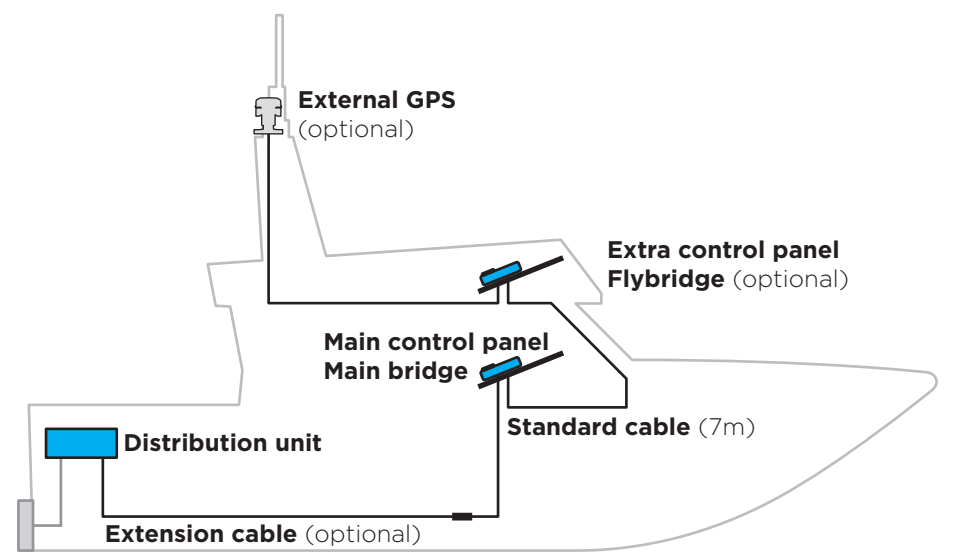


NOTE! The system allows an unpaired Interceptor mounted on the center of the transom. A centerline mounted Interceptor should always be connected to port side 3 to work properly.

CONTROL PANEL

1 ROUTE CABLES

Route the cables between the control panel(s), the distribution unit and optional equipment. Use optional extension cables if necessary. A detailed wiring diagram is available at the end of this folder.

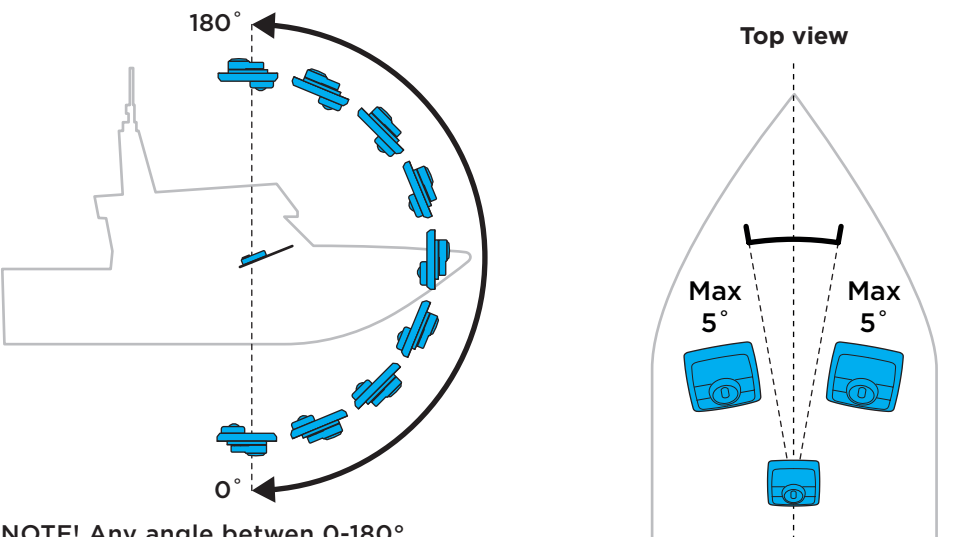


2 PREPARE THE DASH

The control panel must be mounted within certain angles relative to the boat's axes for the built-in sensors to deliver reliable output.

Locate a free area on the dash suitable for mounting the control panel. Use the control panel's template as a guide to see if it will fit next to other instruments.

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

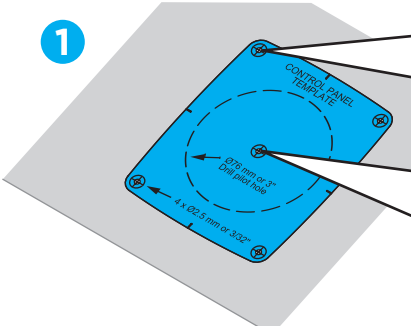


NOTE! Any angle between 0-180°

CONTROL PANEL

3 MOUNT THE CONTROL PANEL

1



Drill holes (x4)
Ø 2.5 mm (3/32")



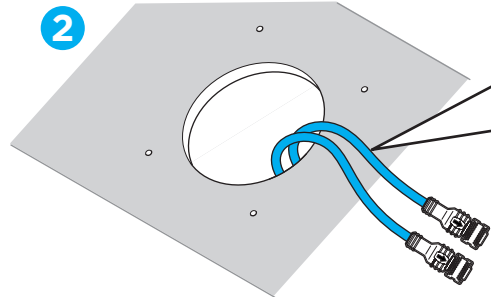
Drill hole



1. Pilot hole Ø 3 mm (1/8")
2. Hole saw Ø 76 mm (3")

Flush mount option: refer to www.zipwake.com for a drawing and 3D model.

2

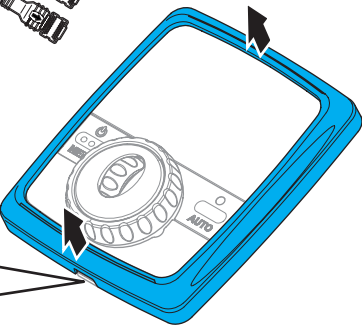


Prepare the cables
Route the standard and optional cables

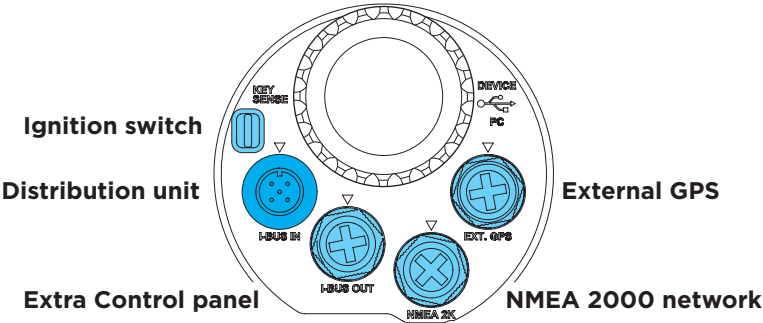
3

Snap off the frame

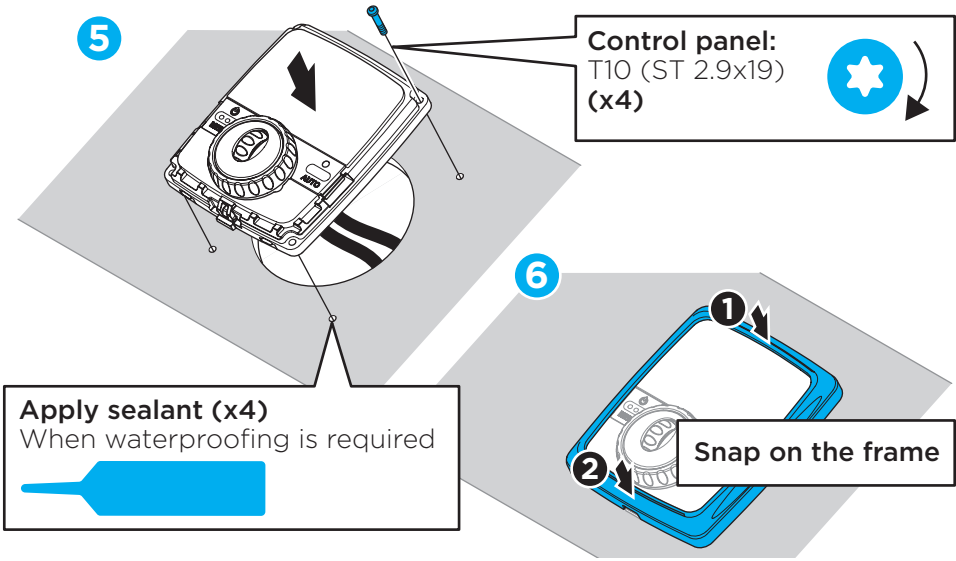




4 Connect the cables on the back of the Control panel.



CONTROL PANEL

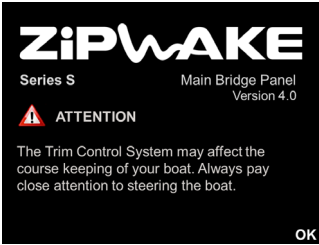


4 INITIAL START

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

SET UP THE SYSTEM

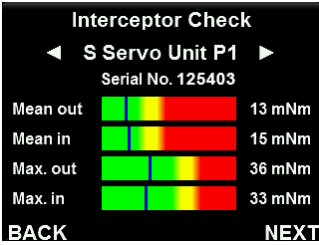
Press and hold the POWER/MENU button until the Zipwake logo appears on the display and follow the steps on the screen.



INTERCEPTOR CHECK

Carry out an Interceptor Check to verify function immediately after installation, before launching the boat.

NOTE - 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.

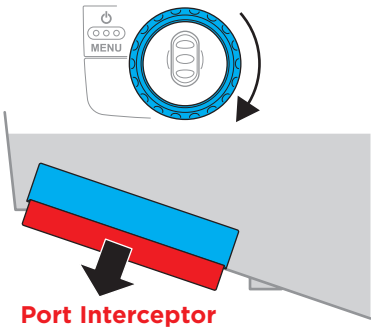


VERIFY FUNCTION ON SHORE

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.

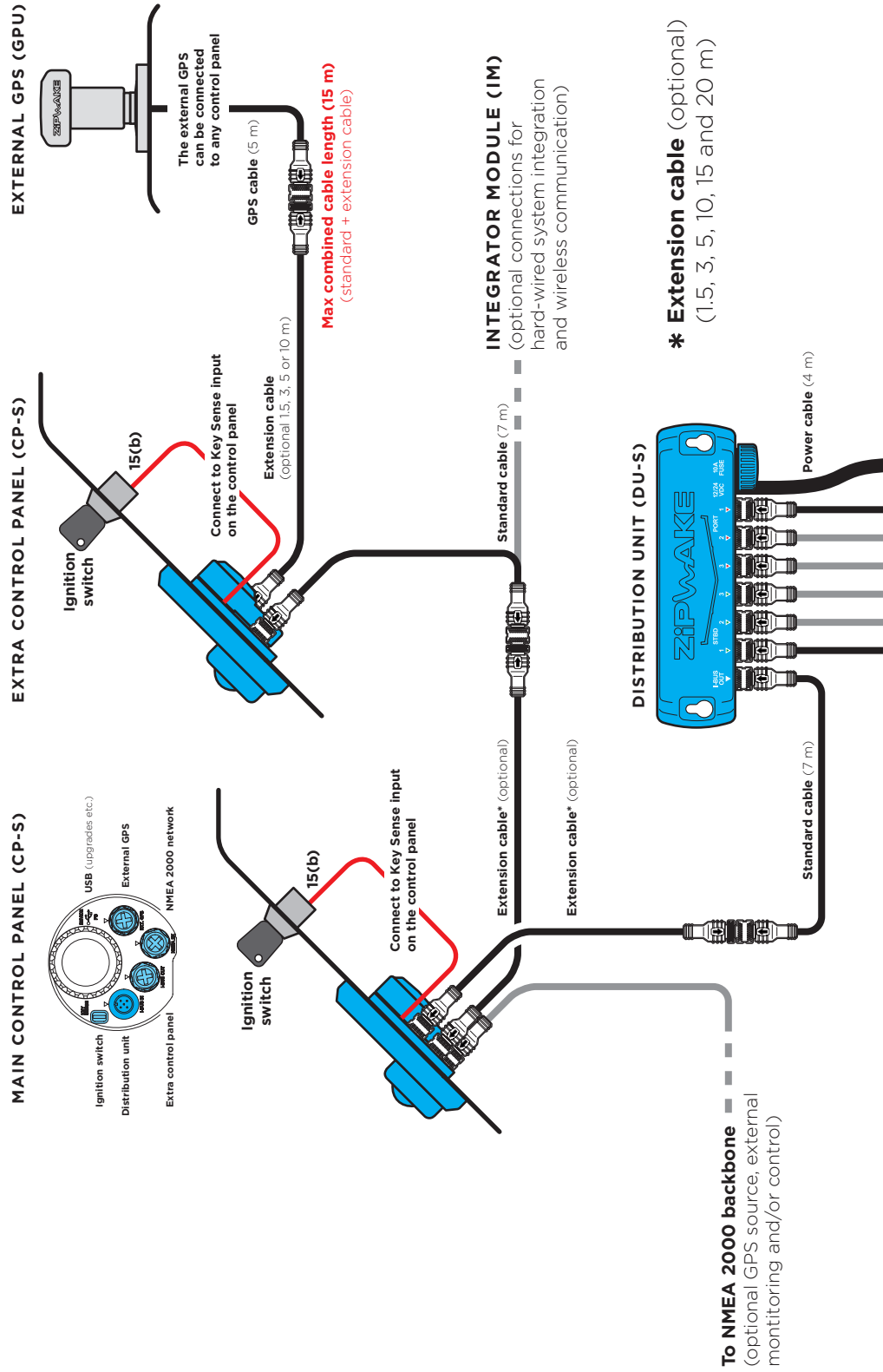


WIRING DIAGRAM

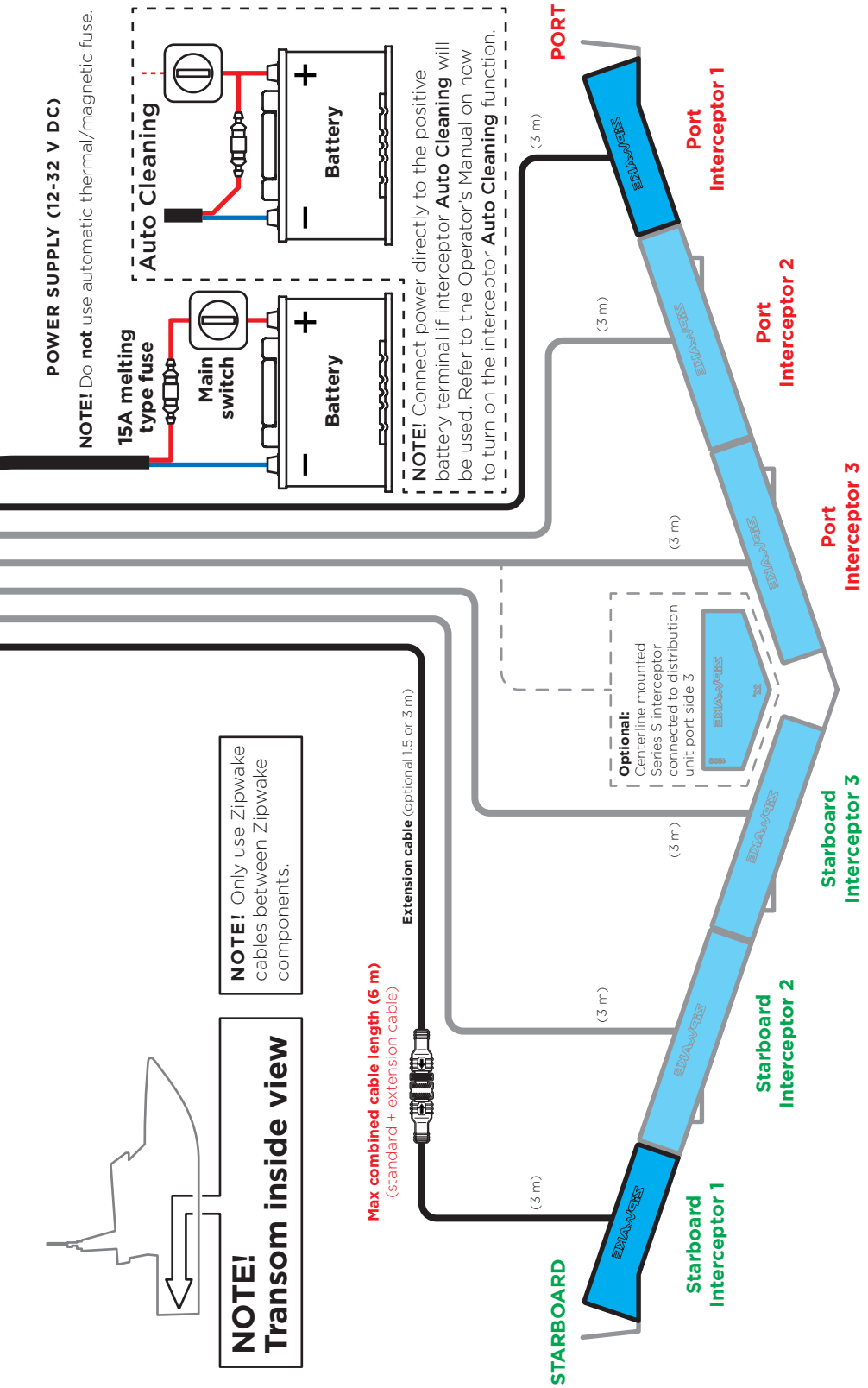
ACCESSORIES

Model	Part No.	Description
IM	2012241	INTEGRATOR MODULE
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
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

WIRING DIAGRAM



WIRING DIAGRAM



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