THE KIT BOX CONTAINS

- 1 x Control Panel with Standard Cable 7 m
- 1 x Distribution Unit with Power Cable 4 m
- 2 x Interceptors with Cable 3 m & Cable Covers
- + Operator’s Manual
- + Warranty Card
- + Installation Guide
- + Drill Templates
- + Operator’s Quick Guide
- + Startup Checklist

SYSTEM OVERVIEW

- EXTTERNAL DEVICE
- BRIDGE CONTROL PANEL
- FLYBRIDGE CONTROL PANEL
- DISTRIBUTION UNIT
- Ignition key sense
- NMEA 2000
- External GPS (optional)
- I-BUS (Can Bus)
- 3 flybridge panels possible
- Supply 12-32 V DC
- Up to 6 interceptors

TOOLS

<table>
<thead>
<tr>
<th>Power drill</th>
<th>Sealant</th>
<th>Flat screwdriver</th>
<th>Wrench</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill bits</td>
<td>Hole saw</td>
<td>Screw bits</td>
<td></td>
</tr>
<tr>
<td>Ø 2.5 mm (3/32&quot;)</td>
<td>Ø 19 mm (3/4&quot;)</td>
<td>T10 T20 T25 T30</td>
<td></td>
</tr>
<tr>
<td>Ø 3 mm (1/8&quot;)</td>
<td>Ø 76 mm (3&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø 3.5 mm (9/64&quot;)</td>
<td>Ø 13 mm (33/64&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø 4 mm (5/32&quot;)</td>
<td>27 mm (1 1/16&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø 5 mm (3/16&quot;)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Utility knife
- Hacksaw
- Flat screwdriver
- Bits screwdriver
- Power drill
- Drill bits
- Hole saw
- Screw 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")
- Ø 19 mm (3/4")
- 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")
- Ø 76 mm (3")
- Ø 13 mm (33/64")
- 27 mm (1 1/16")
- T10 T20 T25 T30

INTERCEPTOR

- 2 x Interceptors with Cable 3 m & Cable Covers

DISTRIBUTION UNIT

- 1 x Distribution Unit with Power Cable 4 m

CONTROL PANEL

- 1 x Control Panel with Standard Cable 7 m

Copyright © 2019 Zipwake AB, Sweden. All rights reserved. R1G, September 2019, English
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).

[Diagrams showing mounting options]

ALLOWED SPRAY RAIL OVERLAP

Max Extension $E = 30$ mm (1.2"

NOTE! Chine Interceptor

[Diagrams showing allowed 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
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.

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.
Convave bottom: Place one straightedge at the interceptor center and use one end of the template to find its right center position.

1. Drill pilot holes
2. Remove the template
3. Drill holes

Max 2 mm (0.08”) between parallel planes

Drill holes for the Interceptors

Only if a concealed thru-hull fitting will be used

<table>
<thead>
<tr>
<th>Option 1:</th>
<th>Option 2 (M18 x 2.5):</th>
</tr>
</thead>
</table>
| 1. Pilot hole Ø 3 mm (1/8”’)
2. Hole saw Ø 19 mm (3/4”) | 1. Pilot hole Ø 3 mm (1/8”)
2. Hole saw Ø 16 mm (5/8”)
3. Tap M18 x 2.5 |
3 INSTALL THE BACK PLATES

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

B. MOUNT THE BACK PLATE

NOTE!

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

Apply sealant

300 S: x6
450 S: x10
600 S: x14
750 S: x18

GRP hull: T30 (ST 6.3x38)

Metal hull: Machine screws
(not included)

Remove excess sealant
with a knife or a spatula
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. **NOTE!**

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

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

**Hold:**
13 mm (33/64”) wrench

Sealant

**Option:** OK

OK
**INTERCEPTOR**

1. **Apply sealant**
2. **Drill holes for the cable cover**
   - Use the cover as a drill template
   - Ø 3.5 mm (9/64”)
3. **Intercept the cable cover**
   - Place on top of the Interceptor and cut ~5 mm (0.2”) above the mark
   - If necessary, use the extension and cut to desired length
4. **Apply sealant (x3)**
5. **Drill holes (x3) for the cover**
   - Use the cover as a drill template
   - Ø 5 mm (3/16”)
6. **Cable cover:**
   - **GRP hull:** T20 (ST 4.2x19)
   - **Metal hull:** Machine screws (not included)
7. **Thru-hull cover:**
   - **GRP hull:** T30 (ST 6.3x38) (x3)
   - **Metal hull:** Machine screws (not included)
8. **Apply sealant (x3)**
**4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE**

1. **NOTE!**
   - Fit the cable clip in the back plate or cut it off.

2. **NOTE!**
   - **Tighten:** 27 mm (1 1/16”) wrench
   - **10 Nm (7.4 lb-ft)**

3. **NOTE!**
   - **Hold:** 13 mm (33/64”) wrench

**servo unit:**
- **T25 (PT 5.0x18) (x3)**
- **2 Nm (1.5 lb-ft)**
5 INSTALL THE INTERCEPTOR FRONTS

Interceptor front: T30 (PT 6.0x48)

5 Nm (3.7 lb-ft)

300 S: x6
450 S: x10
600 S: x14
750 S: x18

6 PAINT THE INTERCEPTORS WITH ANTIFOULING

1 Apply Antifouling
Best tool Spray
2nd Best tool Roller

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

1. Drill holes (x2)
   Ø 4 mm (5/32”)

2. Fasten screws (x2)
   T25 (ST 4.8x38)

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.
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 on the other side 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.

   Ignition switch
   Distribution unit
   Extra Control panel
   External GPS
   NMEA 2000 network
   
   Mounting options: refer to www.zipwake.com for a drawing and 3D model.
It is recommended that a first check is always made right after installing the interceptors, before launching the boat. If an interceptor then shows excessive servo motor torque, the prime suspect is the flatness of the transom behind the interceptor and/or excess antifouling between its blades.

NOTE! Corrective actions are always necessary in the event that too high torque levels are observed. All readings must be green!

**VERIFY FUNCTION ON SHORE**

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

**IMPORTANT**
Always use the controls to move the Interceptor blades. Never try to force the Interceptor blades by hand.
## Accessories and Spare Parts

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-S</td>
<td>2011238</td>
<td>CONTROL PANEL S WITH STANDARD CABLE 7 M</td>
</tr>
<tr>
<td>DU-S</td>
<td>2011239</td>
<td>DISTRIBUTION UNIT S WITH POWER CABLE 4 M</td>
</tr>
<tr>
<td>IT300-S</td>
<td>2011232</td>
<td>INTERCEPTOR 300 S WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S</td>
<td>2011233</td>
<td>INTERCEPTOR 450 S WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT600-S</td>
<td>2011234</td>
<td>INTERCEPTOR 600 S WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT750-S</td>
<td>2011235</td>
<td>INTERCEPTOR 750 S WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S V13</td>
<td>2011482</td>
<td>INTERCEPTOR 450 S V13 WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S V16</td>
<td>2011483</td>
<td>INTERCEPTOR 450 S V16 WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S V19</td>
<td>2011484</td>
<td>INTERCEPTOR 450 S V19 WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S V22</td>
<td>2011485</td>
<td>INTERCEPTOR 450 S V22 WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT300-S CHINE PORT</td>
<td>2011702</td>
<td>INTERCEPTOR 300 S CHINE PORT SIDE WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT300-S CHINE STBD</td>
<td>2011703</td>
<td>INTERCEPTOR 300 S CHINE STARBOARD SIDE WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S CHINE PORT</td>
<td>2011704</td>
<td>INTERCEPTOR 450 S CHINE PORT SIDE WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT450-S CHINE STBD</td>
<td>2011705</td>
<td>INTERCEPTOR 450 S CHINE STARBOARD SIDE WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>IT300-S INTER</td>
<td>2011701</td>
<td>INTERCEPTOR 300 S INTERMEDIATE WITH CABLE 3 M &amp; CABLE COVERS</td>
</tr>
<tr>
<td>EC1.5-M12</td>
<td>2011258</td>
<td>M12 EXTENSION CABLE 1.5 M</td>
</tr>
<tr>
<td>EC3-M12</td>
<td>2011259</td>
<td>M12 EXTENSION CABLE 3 M</td>
</tr>
<tr>
<td>EC5-M12</td>
<td>2011260</td>
<td>M12 EXTENSION CABLE 5 M</td>
</tr>
<tr>
<td>EC10-M12</td>
<td>2011261</td>
<td>M12 EXTENSION CABLE 10 M</td>
</tr>
<tr>
<td>SC7-M12</td>
<td>2011257</td>
<td>M12 STANDARD CABLE 7 M</td>
</tr>
<tr>
<td>CP ALU FRAME</td>
<td>2011281</td>
<td>CONTROL PANEL ALU FRAME</td>
</tr>
<tr>
<td>CP COVER</td>
<td>2011381-</td>
<td>CONTROL PANEL COVER WHITE, LIGHT GRAY, MID GRAY, DARK GRAY, BLACK</td>
</tr>
<tr>
<td></td>
<td>2011385</td>
<td></td>
</tr>
<tr>
<td>CC-S</td>
<td>2011071</td>
<td>CABLE COVER S KIT</td>
</tr>
<tr>
<td>GPU</td>
<td>2011240</td>
<td>GLOBAL POSITIONING UNIT WITH CABLE 5 M &amp; MOUNT KIT</td>
</tr>
<tr>
<td>SU-S</td>
<td>2011230</td>
<td>SERVO UNIT S WITH CABLE 3 M</td>
</tr>
<tr>
<td>IT300-S FRONT</td>
<td>2011252</td>
<td>INTERCEPTOR 300 S FRONT</td>
</tr>
<tr>
<td>IT450-S FRONT</td>
<td>2011253</td>
<td>INTERCEPTOR 450 S FRONT</td>
</tr>
<tr>
<td>IT600-S FRONT</td>
<td>2011254</td>
<td>INTERCEPTOR 600 S FRONT</td>
</tr>
<tr>
<td>IT750-S FRONT</td>
<td>2011255</td>
<td>INTERCEPTOR 750 S FRONT</td>
</tr>
<tr>
<td>IT450-S V13 FRONT</td>
<td>2011492</td>
<td>INTERCEPTOR 450 S V13 FRONT</td>
</tr>
<tr>
<td>IT450-S V16 FRONT</td>
<td>2011493</td>
<td>INTERCEPTOR 450 S V16 FRONT</td>
</tr>
<tr>
<td>IT450-S V19 FRONT</td>
<td>2011494</td>
<td>INTERCEPTOR 450 S V19 FRONT</td>
</tr>
<tr>
<td>IT450-S V22 FRONT</td>
<td>2011495</td>
<td>INTERCEPTOR 450 S V22 FRONT</td>
</tr>
<tr>
<td>IT300-S CHINE PORT FRONT</td>
<td>2011742</td>
<td>INTERCEPTOR 300 S CHINE PORT SIDE FRONT</td>
</tr>
<tr>
<td>IT300-S CHINE STBD FRONT</td>
<td>2011743</td>
<td>INTERCEPTOR 300 S CHINE STARBOARD SIDE FRONT</td>
</tr>
<tr>
<td>IT450-S CHINE PORT FRONT</td>
<td>2011744</td>
<td>INTERCEPTOR 450 S CHINE PORT SIDE FRONT</td>
</tr>
<tr>
<td>IT450-S CHINE STBD FRONT</td>
<td>2011745</td>
<td>INTERCEPTOR 450 S CHINE STARBOARD SIDE FRONT</td>
</tr>
<tr>
<td>IT300-S INTER FRONT</td>
<td>2011741</td>
<td>INTERCEPTOR 300 S INTERMEDIATE FRONT</td>
</tr>
<tr>
<td>GB</td>
<td>2011622</td>
<td>GIMBAL BRACKET FOR CONTROL PANEL</td>
</tr>
</tbody>
</table>
The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.

The external GPS can be connected to any control panel.

Connect to Key Sense input on the control panel.
POWER SUPPLY (12-32 V DC)

NOTE! Do not use automatic thermal/magnetic fuse.

15A melting type fuse

Main switch

Battery

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

Extension cable
(1.5 m)
(optional)

(3 m)

NOTE!
Transom inside view

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.

Auto Cleaning

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

NOTE!
Do not use automatic thermal/magnetic fuse.

Starboard Interceptor 1

Starboard Interceptor 2

Starboard Interceptor 3

Port Interceptor 1

Port Interceptor 2

Port Interceptor 3

(3 m)

(3 m)

(3 m)

(3 m)
Visit [www.zipwake.com](http://www.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
- Programming Manual for external control application development