TOOLS

<table>
<thead>
<tr>
<th>Power drill</th>
<th>Sealant</th>
<th>Flat screwdriver</th>
<th>Wrench</th>
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<td>13 mm (33/64&quot;)</td>
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THE KIT BOX CONTAINS

- 1 x Control Panel with Standard Cable 7 m
- 2 x Interceptors with Cable 3 m & Cable Covers
- 1 x Distribution Unit with Power Cable 4 m
- 1 x Extension Cable 1.5 m / 3 m
- + Operator’s Manual
- + Warranty Card
- + Installation Guide
- + Drill Templates
- + Operator’s Quick Guide
- + Startup Checklist

SYSTEM OVERVIEW

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

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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

Max Extension

\[ E = 30 \text{ mm (1.2")} \]

NOTE! Chine Interceptor

Ok!

Not Ok!
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.

**Concave 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

Only if a concealed thru-hull fitting will be used

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

Drill holes for the Interceptors

<table>
<thead>
<tr>
<th>Model</th>
<th>Qty.</th>
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<tr>
<td>300 S</td>
<td>x6</td>
</tr>
<tr>
<td>450 S</td>
<td>x10</td>
</tr>
<tr>
<td>600 S</td>
<td>x14</td>
</tr>
<tr>
<td>750 S</td>
<td>x18</td>
</tr>
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</table>

Max 2 mm (0.08”) between parallel planes
3 INSTALL THE BACK PLATES

A. REMOVE THE SERVO UNIT IF A CONCEALED THRU-HULL FITTING WILL BE USED AND CONTINUE TO STEP B. IF NOT, GO STRAIGHT TO STEP B.

B. MOUNT THE BACK PLATE

NOTE!

Remove excess sealant with a knife or a spatula

Apply sealant

- GRP hull: T30 (ST 6.3x38)
  - 300 S: x6
  - 450 S: x10
  - 600 S: x14
  - 750 S: x18

- Metal hull: Machine screws (not included)

Remove back plug

Remove Servo unit:
T25 (PT 5.0x18) (x3)
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!**
   Sealant

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**

**Waterline**

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

**Hold:**
13 mm (33/64”) wrench
Apply sealant

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

Interceptor

Extension (optional)

Place the cable cover on top of the Interceptor and cut it ~5 mm (0.2”) above the mark

If necessary use the extension and cut it to desired length

Cable cover (standard)

Interceptor

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

Cable cover:
GRP hull: T20 (ST 4.2x19)
Metal hull: Machine screws (not included)

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

Apply sealant (x3)
4B INSTALL CONCEALED THRU-HULL FITTINGS UNDER THE WATERLINE

1. **NOTE!**
   - Do not use 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)
   - **Hold:**
     - 13 mm (3/32") wrench

3. **NOTE!**
   - 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

Apply Antifouling
Best tool: Spray
2nd Best tool: Roller

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)

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

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 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°
3 MOUNT THE CONTROL PANEL

1. Drill holes (x4)
   - Ø 2.5 mm (3/32”)

2. 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.
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
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.
<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>CP-S</td>
<td>2011238</td>
<td>CONTROL PANEL S WITH STANDARD CABLE 7 M</td>
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<td>DU-S</td>
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<td>DISTRIBUTION UNIT S WITH POWER CABLE 4 M</td>
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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.

NMEA 2000 network

Optional GPS source

To NMEA 2000 backbone

External GPS

Main control panel (CP-S)

Extra control panel (CP-S)

Distribution unit (DU-S)

Power cable (4 m)

Extension cable (optional) 1.5 m, 3 m, 5 m, 10 m

Standard cable (7 m)

GPS cable (5 m)

Standard cable (7 m)

Standard cable (7 m)

Optional GPS source

NMEA 2000 network
NOTE! Transom inside view

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

Extension cable (1.5 m) (optional) (3 m)

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.

NOTE! Do not use automatic thermal/magnetic fuse.

WIRING DIAGRAM
Visit 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