## Tools

<table>
<thead>
<tr>
<th>Power drill</th>
<th>Sealant</th>
<th>Flat screwdriver</th>
<th>Wrench 18 mm (33/64&quot;)</th>
<th>Flat screwdriver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill bits</td>
<td>Hole saw</td>
<td>Ø 19 mm (3/4&quot;)</td>
<td>Ø 27 mm (1/16&quot;)</td>
<td>Bits screwdriver</td>
</tr>
<tr>
<td>Ø 2.5 mm (3/32&quot;)</td>
<td>Ø 76 mm (3&quot;)</td>
<td>Ø 4 mm (5/32&quot;)</td>
<td>Ø 5 mm (3/16&quot;)</td>
<td>Ø 5 mm (3/16&quot;)</td>
</tr>
<tr>
<td>Ø 6.5 mm (1/4&quot;)</td>
<td>Screw bits T10 T20 T25</td>
<td>Ø 6.5 mm (3/16&quot;)</td>
<td>Ø 6.5 mm (3/16&quot;)</td>
<td>T20 T40 T25</td>
</tr>
</tbody>
</table>

## Interceptor

- 2 x Interceptors with Cable 3 m & Cable Cover

## Distribution Unit

- 1 x Distribution Unit with Power Cable 6 m

## Control Panel

- 1 x Control Panel with Standard Cable 15 m
- Operator’s Manual
- Warranty Card
- Installation Guide
- Drill Templates
- Operator’s Quick Guide
- Startup Checklist

## System Overview

- External GPS
- Supply 12-32 V DC
- Up to six Series E Interceptors
- Or any mix with Series S Interceptors
- 3 Flybridge panels possible
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

\[ E = 60 \text{ mm} \ (2.4”) \]

NOTE! Chine interceptor
PROPELLER CLEARANCE
If the boat has an outboard engine or sterndrive, the interceptors must be mounted with clearance to the propeller(s).

NOTE!
Optional intermediate Series S interceptor IT300-S INTER

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.

Max 2 mm (0.08") between parallel planes

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 straightedges and pressed against the transom, the template will have the right position.

Fix the template on the transom with tape.

Convex 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

**Drill holes for the interceptors**

<table>
<thead>
<tr>
<th>Option 1:</th>
<th>Option 2 (threaded hole):</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pilot hole</td>
<td>Ø 3 mm (1/8&quot;)</td>
</tr>
<tr>
<td>2. Drill</td>
<td>Ø 6.5 mm (1/4&quot;)</td>
</tr>
<tr>
<td>2. Hole saw</td>
<td>Ø 19 mm (3/4&quot;)</td>
</tr>
<tr>
<td>3. Tap</td>
<td>M18 x 2.5</td>
</tr>
</tbody>
</table>

Only if a concealed thru-hull fitting will be used (x2)
INTERCEPTOR

3 INSTALL THE BACK PLATES

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

1. Slide out the cable plug to remove the servo cables

2. Remove the back plugs

B. MOUNT THE BACK PLATE

NOTE!

1. Apply sealant

2. Apply sealant

3. GRP hull: T40 (ST 8.0x45)
   - 600 E: x9
   - 800 E: x13
   - 1000 E: x17

   Metal hull: Machine screws (not included)

4. Remove excess sealant with a knife or a spatula

Remove Servo unit (x2):
T25 (PT 5.0x18) (x3)
Drill holes for the cover base
Use the cover base as a drill template
Ø 4 mm (5/32”)

Mark the center of the thru-hull fitting

Drill holes (x4) for the cover base

1. Pilot hole
2. Hole saw
3. Tap
4. Apply sealant (x4)
5. Snapp off the thru-hull center pieces
6. Option 2 (threaded hole):
   1. Pilot hole
   2. Hole saw
   3. Tap
6. Option 1:
   1. Pilot hole Ø 3 mm (1/8”)
   2. Hole saw Ø 19 mm (3/4”)
7. Place the cable cover on top of the interceptor and cut it alongside the thru-hull cover base.
8. If necessary use the cable cover extension kit (CC-EX, optional) and cut it to desired length

Cover base:
GRP hull (x4):
T25 (ST 4.8x25)

Metal hull: Machine screws (not included)

Drill holes for thru-hull fittings (x2)

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

Apply sealant (x4)
**Cable cover base:**
- **GRP hull:** T25 (ST 4.8x25)
- **Metal hull:** Machine screws (not included)

**NOTE!**
- **Tighten:** 27 mm (1 1/16") wrench, 10 Nm (7.4 lb-ft)
- **Hold:** 13 mm (33/64") wrench

**NOTE! Threaded hole**
- OK

**Place the cable in the clip**

**Place the cables inside the cable cover**

**Thru-hull cover:**
- T25 (PT 5.0x18) (x4)
- 2 Nm (1.5 lb-ft)

**Cable cover:**
- T25 (PT 5.0x18)
- 2 Nm (1.5 lb-ft)
1. Fit the cable clip in the back plate or cut it off.

2. Slide back the cable plug and press down its cantilever.

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

   Hold:
   - 13 mm (33/64") wrench

   NOTE!
   - Threaded hole
     - OK
     - OK

Servo unit (x2): T25 (PT 5.0x18)

   - 2 Nm (1.5 lb-ft)

NOTE!
- (x2)
5 INSTALL THE INTERCEPTOR FRONTS

Interceptor front:
T30 (PT 6.0x60)
- 600 E: x3
- 800 E: x5
- 1000 E: x7
- 5 Nm (3.7 lb-ft)

Interceptor front:
T40 (PT 8.0x70)
- 600 E: x6
- 800 E: x8
- 1000 E: x10
- 10 Nm (7.4 lb-ft)

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 engine room 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 can be expanded with a Distribution Expansion Unit (DU-EX) in order to accommodate up to six Series E interceptors or any mix with Series S interceptors.
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. 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.

Flush mount option: refer to www.zipwake.com for a drawing and 3D model.
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 and before launching the boat. Repeat this before every launch.

NOTE! Interceptor Check will not start if no interceptor configuration has been saved to the system (refer to the Operator's Manual).

The check repeats a 5 stroke sequence, where each interceptor blade is extended, one by one, from port to starboard and then retracted in the same order. Visually confirm that the interceptors move accordingly during the check. This confirms that the interceptors are correctly connected to the distribution unit(s).

All readings must be green!
Corrective action is always necessary when excessive 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.
## Wiring Diagram

### Accessories and Spare Parts

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-E</td>
<td>2012032</td>
<td>CONTROL PANEL E WITH STANDARD CABLE 15 M</td>
</tr>
<tr>
<td>DU-E</td>
<td>2012033</td>
<td>DISTRIBUTION UNIT E WITH POWER CABLE 6 M</td>
</tr>
<tr>
<td>DU-EX</td>
<td>2012034</td>
<td>DISTRIBUTION EXPANSION UNIT E WITH POWER CABLE 6 M</td>
</tr>
<tr>
<td>IT600-E</td>
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<td>INTERCEPTOR 600 E WITH CABLE 3 M &amp; CABLE COVER</td>
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<td>IT800-E</td>
<td>2012019</td>
<td>INTERCEPTOR 800 E WITH CABLE 3 M &amp; CABLE COVER</td>
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<td>IT1000-E</td>
<td>2012020</td>
<td>INTERCEPTOR 1000 E WITH CABLE 3 M &amp; CABLE COVER</td>
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<td>IT600-E TUNNEL R500</td>
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<td>EC1.5-M12</td>
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<td>M12 EXTENSION CABLE 1.5 M</td>
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<td></td>
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<td>WHITE, LIGHT GRAY, MID GRAY, DARK GRAY, BLACK</td>
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<tr>
<td>CC-EX</td>
<td>2012036</td>
<td>CABLE COVER EXTENSION E KIT</td>
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<td>GPU</td>
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<td>GLOBAL POSITIONING UNIT WITH CABLE 5 M &amp; MOUNT KIT</td>
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<td>GB</td>
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<td>GIMBAL BRACKET FOR CONTROL PANEL</td>
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<td>SU-E</td>
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<td>IT600-E CHINE PORT FRONT</td>
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<td>INTERCEPTOR 600 E CHINE STARBOARD SIDE FRONT</td>
</tr>
</tbody>
</table>
**Power cable (6 m)**

**Max combined cable length (15 m)** (standard + extension cable)

---

**WIRING DIAGRAM**

**MAIN CONTROL PANEL (CP-E)**

- Ignition switch
- USB (upgrades etc.)
- External GPS
- NMEA 2000 network

**EXTRA CONTROL PANEL (CP-E)**

- Ignition switch
- Connect to Key Sense input on the control panel
- Extension cable (optional)
- Standard cable (15 m)

**EXTERNAL GPS (GPU)**

- GPS cable (5 m)
- Connect to Key Sense input on the control panel
- Max combined cable length (15 m) (standard + extension cable)

---

**DISTRIBUTION UNIT (DU-E)**

- Extension cable* (optional)
- Standard cable (15 m)

**DISTRIBUTION EXPANSION UNIT (DU-EX) (optional)**

- Extension cable* (optional)
- To NMEA 2000 backbone (optional GPS source, external monitoring and/or control)

---

**NOTE!** Connect DU-E and DU-EX to the same power source and ground potential (grounding point).
**WIRING DIAGRAM**

**POWER SUPPLY (12-32 V DC)**

15A melting type fuse

**Main switch**

**Battery**

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

---

**NOTE!** Transom inside view

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

**Extension cable**
(optional 1.5 or 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.

---

**Optional:**
Centerline mounted E interceptor
DU-E: P3 & S3
DU-E/EX: P5 & P6

**Optional:**
Centerline mounted S interceptor
DU-E: P3
DU-E/EX: P6

---

**Up to six Series E interceptors**
Or any mix with Series S interceptors

---

**STARBOARD**

- Starboard Interceptor 1
- Starboard Interceptor 2
- Starboard Interceptor 3

**PORT**

- Port Interceptor 1
- Port Interceptor 2
- Port Interceptor 3

---

**NOTE!**

Do not use automatic thermal/magnetic fuse.

---

Auto Cleaning
DU/INTERCEPTOR CONFIGURATIONS

NOTE!
Transom inside view

DU-E

DU-EX

STBD

PORT

DU-E

DU-EX

STBD

PORT

DU-E

DU-EX

STBD

PORT

DU-E

DU-EX

STBD

PORT

DU-E

DU-EX

STBD

PORT
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