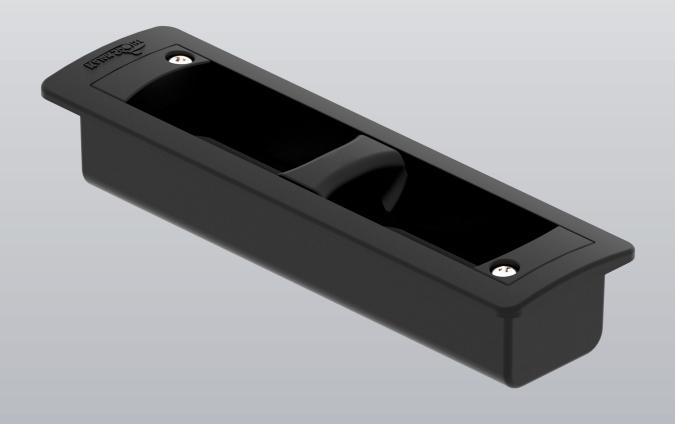
KS SKEG CONTROL UNIT 4

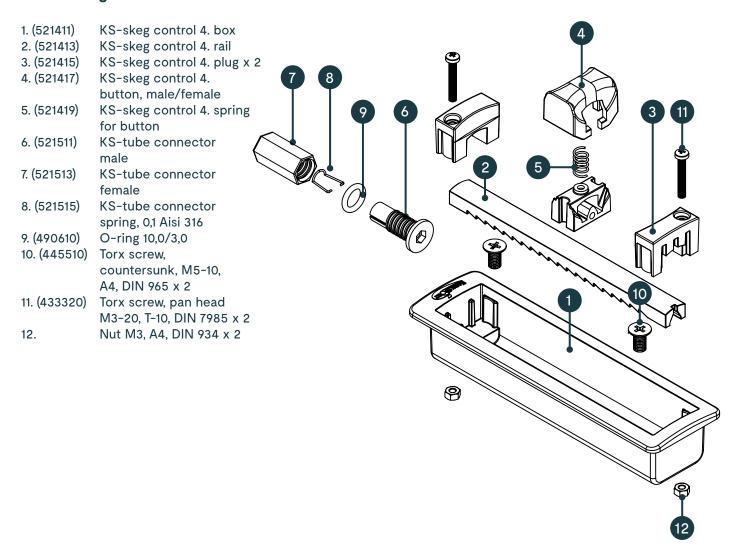
SKEG CONTROL UNIT FOR KAJAK SPORT ROPE DEPLOYED SKEG SYSTEM 4



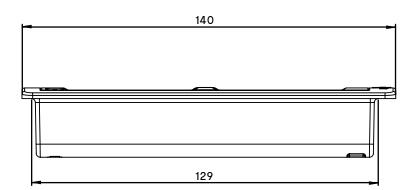
SKEG CONTROL UNIT 4, PART LIST

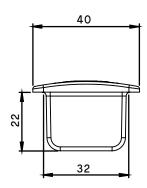
Parts

521410 Skeg control unit 4.



SKEG CONTROL UNIT 4 MAIN DIMENSIONS



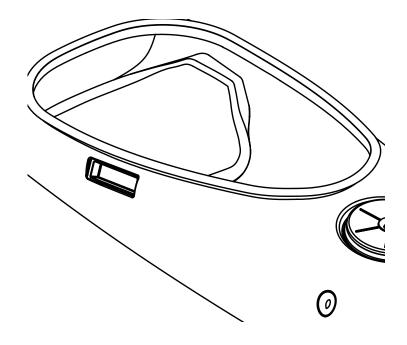


DESIGN INSTRUCTIONS

Placing the KS-Skeg control unit 4

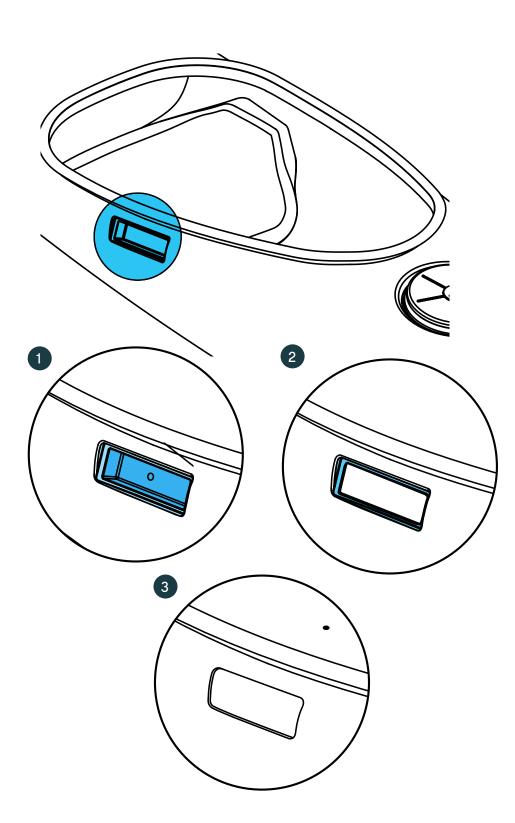
It is important to pay attention to find optimal place for the skeg control unit when designing the kayak.

Skeg control unit should be placed close to the paddler to have easy access on it at all times. It should not stick in the way when doing normal paddling rotation. Most often the optimal location is little bit forward from hip, next to the cockpit rim. If it's too far in the front the paddler can accidentally hurt his hand in it while paddling or it can disturb normal thigh support. If the unit is too much in side and close to the seam it will become the outmost part of the kayak in sideways. It is a risky location when storing and transporting the kayak.



Recessing the Skeg control unit in to the deck

- 1. Integrated premade deck recess for Skeg control unit (recommended assembly for plastic kayaks)
- Closed and watertight deck feature offering a quick 1-2 insert screw installation.
- 2. Surface recessed open assembly, requires optional (521710) KS-adapter box for skeg control 4 (recommended assembly for composite kayaks)
- Watertight and secure installation with dismantle option. Quick 2 screw assembly with watertight rubber sealing
- 3. Non recessed top surface assembly, requires optional (521710) KS-adapter box for skeg control 4 (recommended assembly for retrofitting)
- Watertight and secure installation with dismantle option. Quick 2 screw assembly with watertight rubber sealing



KS-ADAPTER BOX FOR SKEG CONTROL UNIT 4, PART LIST

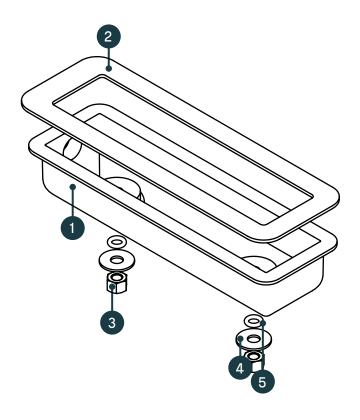
Parts

521710 KS-adapter box for skeg control 4

1. (521711) KS-adapter box for control 4 2. (521 712) KS-Adapter box gasket 3. (461150) Nut M5, A4, DIN 934 x 2 4. (465150) Washer M5, A4, DIN

9021 x 2

5. (490600) O-ring (4,47 x 1,78) x 2

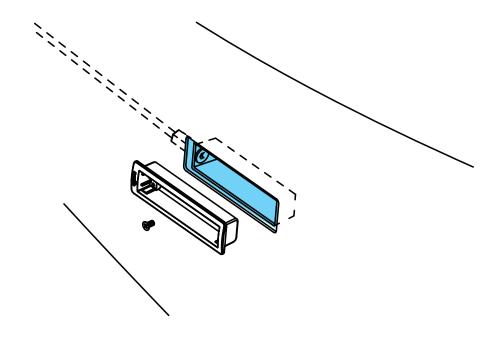


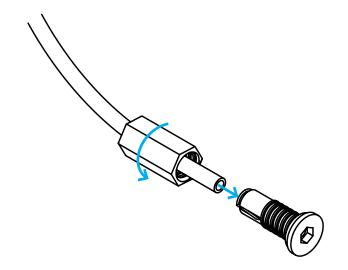
INSTALLING THE SKEG CONTROL UNIT 4

A. Installing the skeg control 4. box and KS-tube connector for premade deck recess

When kayak has a premade deck recess for skeg control unit. The assembly is started from mounting the KS-tube connector. KS-tube connector requires ø11 mm hole in the aft end of the control unit recess. Push tube connector female part all the way in to the end and make sure the O-ring is left outside of the hull to ensure proper sealing for the inlet. Push the PA-tube inside in the male part, It will go in around 27 mm and seal itself against the male part. Push female part around the male part. Screw male and female parts firmly together to secure and seal the complete inlet.

Skeg control box has 3 mounting screw holes. In premade deck recess one or two screws will be enough for secure installation. Ready-made nut inserts are the quickest way to connect it. Place the skeg control box inside in the recess and secure from the bottom with screws that are included.



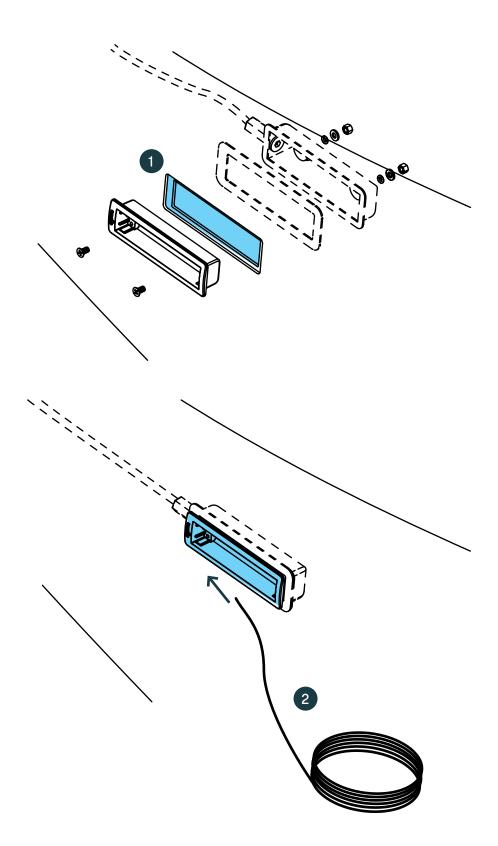


B. Installing the skeg control 4 box and connector tube in the open surface recess or retrofit without any recess by using the KS-adapter box for skeg control 4.

If having a surface recess in the deck without integrated closed box (composite kayaks) skeg control box can be installed by using optional KS-adapter box for skeg control 4. Adapter box has rubber sealing to ensure the connection. Screw connection allows firm tightening and enables later dismantle. Adapter box also has a place for tube connector to make the connection water tight. Please check tube connector installation from above in section 1.

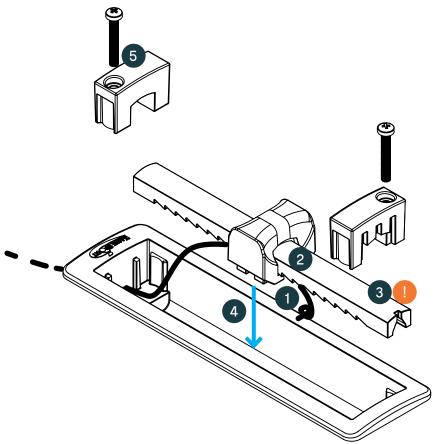
Skeg control 4 box fits in to the recess from outside of the kayak. Adapter box and sealing connects the control box from inside of the kayak. These two components are fixed together with 2 screws, O-rings, washers and nuts that are included. Tighten the screws firmly to make the connection water tight.

When skeg control box is connected to the deck it is most easy to string the skeg rope inside in the tube already in this stage before continuing assembly.



Finish the skeg control unit assembly

- 1. String the rope in to the control button and secure with knot
- **2**. Slide the Rail inside in the control button.
- 3. Please notice that the Rail has small assembly hole in front of it to make sure it can only be fitted correct way in to the control box.
- **4.** Place the control button and rail package in to the control box (rail assembly hole in front)
- **5**. Secure the rail with two plugs in both ends. Control box has integrated nuts where plug screws will attach.



KS SKEG SYSTEM 4

SPRING LOADED SKEG SYSTEM



SKEG BOX AND BLADE ASSEMBLY

Parts

KS Skeg box 4. (521220)

1. (521221) KS-skeg box 4. flat flange, plain.

Other flange options shown in the page 2-3:

(521231) KS- skeg box 4. screw

flange, plain

(521211) KS-skeg box 4. without

flange, plain

2. (521513) KS - tube connector,

female

3. (521515) KS - tube connector,

spring

4. (710540) Tube 6/4, 2,4m

5. (521517) KS - skeg box 4. axle

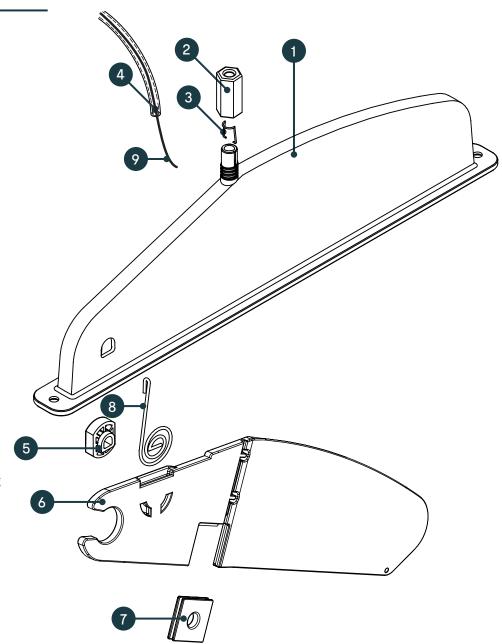
KS-Skeg Blade 4. (521310)

6. (521311) KS-skeg blade 4. plain **7.** (521313) KS-skeg blade 4. rope

coil

8. (521315) KS-skeg blade 4. spring

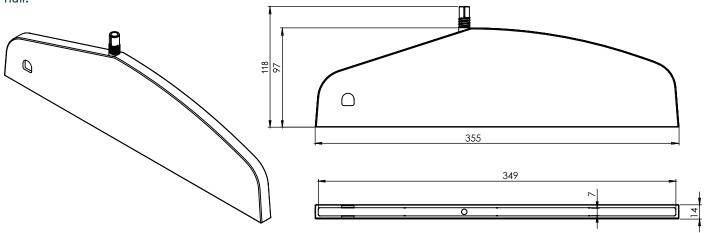
9. (701216) Rope, 2,5m/1,5mm



SKEG BOX MAIN DIMENSIONS

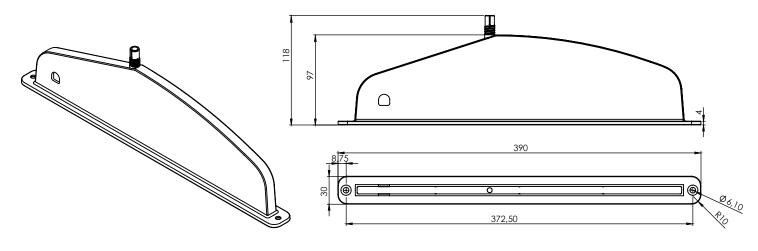
KS-Skeg box 4. without flange

Designed to be installed in to a composite kayak from inside of the hull.



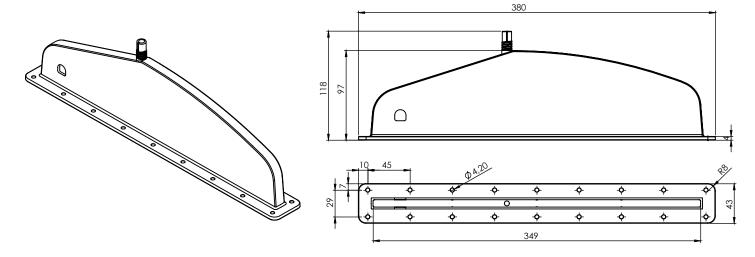
KS-skeg box 4. flat flange

Designed to be installed outside of the hull in both polyethylene and composite kayaks.



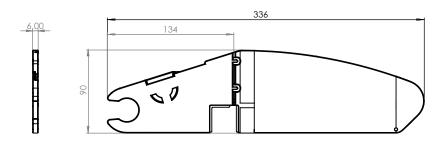
KS-skeg box 4. screw flange

Designed to be installed outside of the hull in both polyethylene and composite kayaks.



KS-skeg box 4. screw flange

Beside you'll find Skeg system 4 blade dimensions.



SKEG BOX ASSEMBLY OPTIONS

1. Skeg box without flange

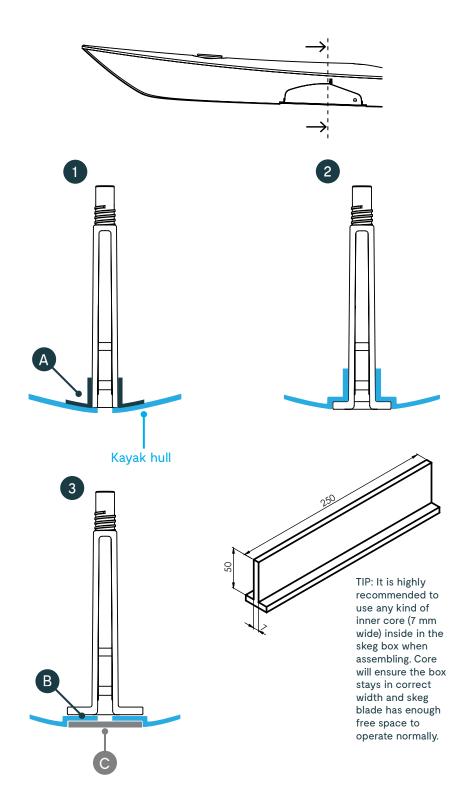
Composite kayak mould can include metal core (width 7 mm) where skeg box can be placed after finishing the hull lamination. Skeg box is made of ABS plastic, so when it is treated with e.g. with sika ABS primer 215 or 290DC it can be connected and sealed directly in to the hull by laminating with polyester resin (A).

2. Skeg box with flat flange

Hull should have integrated surface recess for the skeg box flange to be able to sink in equal surface level with surrounding hull area. Recess can also include low additional support inside for the skeg box. Cut open the bottom of hull recess, treat the ABS skeg box with sika ABS primer 215 or 290DC. Push the box in by using 7 mm wide core inside in the skeg box. Core ensures the skeg box will stay in correct width when installed. Connection can be secured with two screws from both ends of the flange.

3. Screw Flange

Designed to be installed from inside in to plastic boats that can't have proper recess for the skeg box. It can also be fixed outside the hull similarly than the skeg box with flat flange above. When installing from inside, it requires a flat assembly area for the flange. Cut open the skeg blade area and place rubber sealing (B) between the skeg box and the hull. Use metal counterpart (C) in other side of the hull to fix the skeg box securely on its place. This installation is fully dismantle construction.



KAJAK SPORT

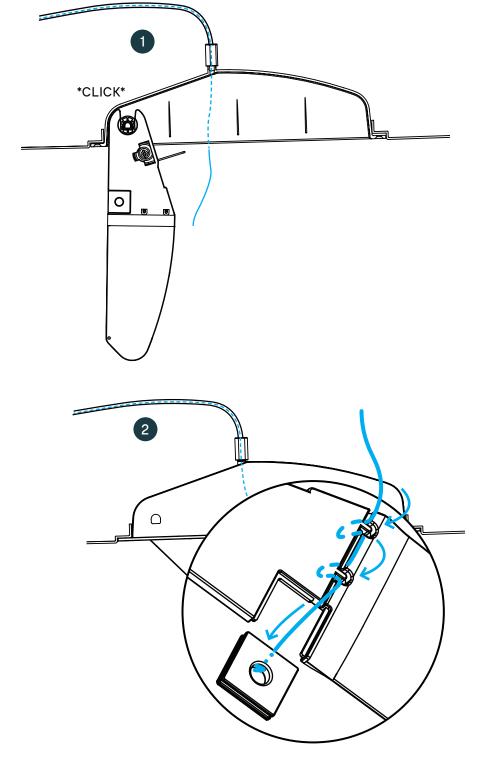
INSTALLING THE SKEG BLADE

Skeg Blade installation

1. Connect the skeg blade vertically in to the skeg axle. Skeg blade makes clear locking sound when connected. Blade will remain connected during the rest of the assembly.

Rope installation

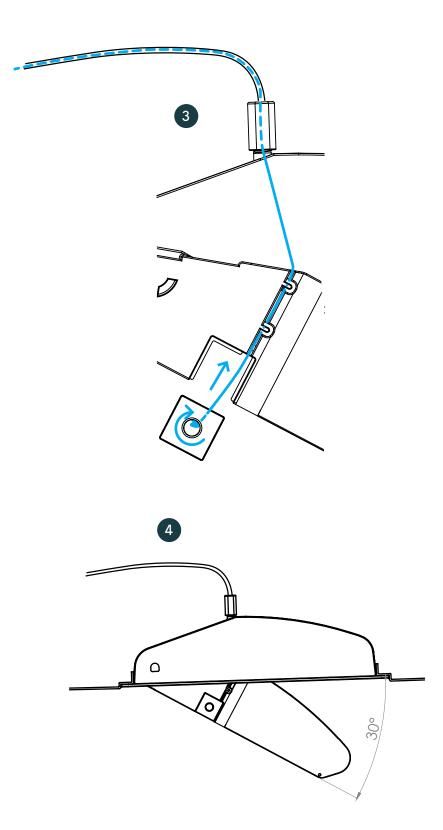
2. Make a small loop in the skeg rope and thread / string it around the plastic rope hook in the skeg blade. Do this for both of the rope hooks. Thread the skeg rope through the rope coil and secure it with a knot.



Rope adjustment

- 3. Adjust the skeg blade by coiling the extra rope around the Rope coil. When completed, push the rope coil to the slot in the skeg blade.
- 4. Check and test blade operation area by moving the skeg control unit. Skeg blade lowest position should be at maximum 30 degree. Readjust the rope length with the rope coil if necessary.

Skeg blade and rope can easily be removed in reverse order.



5. Rope is shortened by turning the rope coil. Control button movement in the control unit is 85 mm. Blade need to be adjusted up enough to be completely inside in the box when lifted from the control button. Later if the adjustment changes or the cord get stretched, rope coil can be readjusted easily.

