Flexofold Limited Warranty:

1. Liability for defects:
   1.1. Upon delivery the buyer shall immediately perform proper checks of the goods supplied before such goods are put to use and shall not later claim defects which the Buyer should have discovered during such a check.
   1.2. The Seller shall not be liable for operating loss, loss of profit or other financial loss incurred by the Buyer or third party as a result of defects in the goods supplied.
   1.3. The Seller shall, pursuant to the provisions of the Clauses below, by repair or replacement, remedy any defects in the goods resulting from faulty design, materials or workmanship.
   1.4 The Seller’s liability is limited to defects which appear within a period of 3 years from the date of delivery of the goods. If the goods are used more intensively than agreed or could be foreseen at the point of sale, this period shall be reduced proportionally.
   1.5 The Buyer shall notify the Seller in writing of a defect without delay after the defect has become apparent, and in no case later than two weeks after the expiry of the period defined in Clause 1.4. The notice shall contain a description of how the defect manifests itself.

2. Liability for Damage to Property caused by the Goods (Product liability):
   1.7 If the defects may be considered substantial, the Buyer may instead choose to terminate the purchase by written notice to the Seller.
   1.8 The Seller is only liable for defects which appear under the conditions of operation provided for and under proper use of the goods. The liability does not cover defects which are caused by faulty maintenance or incorrect installation from the Buyers side. Finally the liability does not cover normal wear and tear or deterioration from corrosional and other attacks.

3. Disputes. Applicable Law:
   Each and every dispute between the parties shall not be brought before the court, but shall be finally settled by arbitration in accordance with the law on arbitration applicable in Denmark.

4. Operating and handling instructions:
   • Shift gears at idling RPM’s only.
   • Check that the propeller functions in both forward and reverse before each voyage.
   • When sailing, propeller must be stopped for the blades to fold. Stop engine and put transmission in reverse.
   • Stop engine immediately if any strange sounds or vibrations are noticed coming from propeller.
   • Do not operate propeller when close to people or animals.
   • When handling assembled propeller, avoid being pinched by opening or closing blades.
   • The only maintenance required is to keep propeller clean.
   • No need to oil or grease, the parts are water lubricated as soon as in the water.

5. Thread locker:
   There is an underwater pre-applied thread locker that can be applied on all screws in the installation. These screws can be installed out of or under the water.

6. Normal fluidic thread locker is not designed to be applied or cure under water and attempts to apply it under water will ultimately fail. Normal fluidic thread locker cure applies to the thread in air and allowed to cure before the screw is mounted under water. There will be no adhesion. If removing the propeller underwater for any reason, do not reuse the screws when mounting again under the water.

When reusing the screws out of the water, make sure to apply a medium strength version of thread locker, for instance Loctite 243 (blue). Never use a thread locker on the shaft nut (4). It will be difficult to dismount again.

installations and operating instructions for 2-blade saildrive propeller. Owner must receive these instructions.

Notice: Failure to follow these instructions will void warranty.

These instructions cover installation and operation of Flexofold Propellers unless they have been modified by Flexofold in which case a supplement will be provided.

COMPOSITE PROPELLER

Parts list:
1. Hub
2. Shaft (not supplied)
3. Spacer (not supplied)
4. Shaft nut
5. Tab washer
6. Shaft nut locking screw (M8x20mm)
7. Blade (2 ea.)
8. Pivot pin (2 ea.)
9. Anchor Bolts (2 ea. M10x60mm)
10. Cover

Parts list:
1. Hub
2. Shaft (not supplied)
3. Spacer (not supplied)
4. Shaft nut
5. Tab washer
6. Shaft nut locking screw (M8x20mm)
7. Blade (2 ea.)
8. Pivot pin (2 ea.)
9. Anchor Bolts (2 ea. M10x60mm)
10. Cover

Thread locker:
There is an underwater pre-applied thread locker that can be applied on all screws in the installation. These screws can be installed out of or under the water. Normal fluidic thread locker is not designed to be applied or cure under water and attempts to apply it under water will ultimately fail. Nor can regular thread locker be applied to the thread in air and allowed to cure before the screw is mounted under water. There will be no adhesion. If removing the propeller underwater for any reason, do not reuse the screws when mounting again under the water. Please contact Flexofold for replacement screws that have the pre-applied thread locker.

When reusing the screws out of the water, make sure to apply a medium strength version of thread locker, for instance Loctite 243 (blue). Never use a thread locker on the shaft nut (4). It will be difficult to dismount again.

Operating and handling instructions:
• Shift gears at idling RPM’s only.
• Check that the propeller functions in both forward and reverse before each voyage.
• When sailing, propeller must be stopped for the blades to fold. Stop engine and put transmission in reverse.
• Stop engine immediately if any strange sounds or vibrations are noticed coming from propeller.
• Do not operate propeller when close to people or animals.
• When handling assembled propeller, avoid being pinched by opening or closing blades.
• The only maintenance required is to keep propeller clean.
• No need to oil or grease, the parts are water lubricated as soon as in the water.

1.0_2016
**Installation of saildrive hub**

1. Check to see that the spacer washer (3), which is supplied by the engine manufacturer, is installed. Propeller will not function properly without spacer washer; slide hub (1) gently over splines on shaft (2). Screw on shaft nut (4) and tighten firmly; Don’t use any thread locker on shaft nut (4); When tightening shaft nut use unmounted blade to keep shaft from turning;

   ![Image of saildrive hub installation](image)

   Shaft nut torque:
   - Yanmar SD20 and Volvo: about 70 Nm (7 kpm, 50 ft-lb).
   - Yanmar SD50-S60: ca. 90 Nm (9 kpm, 65 ft-lb.)

2. Slide tab washer (5) on to shaft nut locking screw (6); screw in through hole in the shaft nut into end of shaft and tighten firmly; If using torque wrench tighten to about 15 Nm; (1,5 kpm, 10.8 ft-lb.)
   - Attempt to get the tab in a position relatively to a flat face of the nut.
   - Using a straight screw driver, bend tab down over shaft nut hex;

3. Again using a straight screw driver or similar: Bend side of tab washer up over hex on the shaft nut locking screw (6). This along with the pre-applied thread locker on shaft nut locking screw will prevent it from backing out.

   ![Image of tab washer installation](image)

   If removing prop, straighten side of tab washer to allow removal of shaft nut locking screw;

4. Align blade (7) in hub jaw and insert pivot pin (8) with the stepped hole in the shown position.
   - Move blade slightly to ease operation, and apply pressure on the pivot pin all the way in;
   - Mount an anchor bolt (9) partly in the boren; Align pivot pin and anchor bolt with bore; do not push it all the way in yet: That will happen after the next step with final adjustment in step 7.

5. Insert next blade (7), pivot pin (8) and anchor bolt (9). Engage thread as soon as both blades, pivot pins and anchor bolts are in place. Tighten light and check function. Final tightening will be done in step 6 with final adjustment in step 7:

   ![Image of blade insertion](image)

   6. Now tighten both anchor bolts light. The torque must be around 5 Nm (0.5 kpm, 40 ft-lb.)
   - The blades should now be too tight for the folding mechanism to work normal.

7. Release both anchor bolts approx. 1/8 turns counter clockwise (45 degrees). Check the function, i.e. work blades open and folded to insure ease of operation.
   - Release anchor bolts slightly more if the blades sticks, and please remember that both anchor bolts must be released equally.

8. Place the cover (10) as shown and click it into place.
   - Finally work blades open and folded to insure ease of operation:

**Installation of blades**

1. Check to see that the spacer washer (3), which is supplied by the engine manufacturer, is installed. Propeller will not function properly without spacer washer; slide hub (1) gently over splines on shaft (2). Screw on shaft nut (4) and tighten firmly; Don’t use any thread locker on shaft nut (4); When tightening shaft nut use unmounted blade to keep shaft from turning;

2. Slide tab washer (5) on to shaft nut locking screw (6); screw in through hole in the shaft nut into end of shaft and tighten firmly; If using torque wrench tighten to about 15 Nm; (1,5 kpm, 10.8 ft-lb.)
   - Attempt to get the tab in a position relatively to a flat face of the nut.
   - Using a straight screw driver, bend tab down over shaft nut hex;

3. Again using a straight screw driver or similar: Bend side of tab washer up over hex on the shaft nut locking screw (6). This along with the pre-applied thread locker on shaft nut locking screw will prevent it from backing out.

   ![Image of tab washer installation](image)

   If removing prop, straighten side of tab washer to allow removal of shaft nut locking screw;

4. Align blade (7) in hub jaw and insert pivot pin (8) with the stepped hole in the shown position.
   - Move blade slightly to ease operation, and apply pressure on the pivot pin all the way in;
   - Mount an anchor bolt (9) partly in the boren; Align pivot pin and anchor bolt with bore; do not push it all the way in yet: That will happen after the next step with final adjustment in step 7.

5. Insert next blade (7), pivot pin (8) and anchor bolt (9). Engage thread as soon as both blades, pivot pins and anchor bolts are in place. Tighten light and check function. Final tightening will be done in step 6 with final adjustment in step 7:

   ![Image of blade insertion](image)

   6. Now tighten both anchor bolts light. The torque must be around 5 Nm (0.5 kpm, 40 ft-lb.)
   - The blades should now be too tight for the folding mechanism to work normal.

7. Release both anchor bolts approx. 1/8 turns counter clockwise (45 degrees). Check the function, i.e. work blades open and folded to insure ease of operation.
   - Release anchor bolts slightly more if the blades sticks, and please remember that both anchor bolts must be released equally.

8. Place the cover (10) as shown and click it into place.
   - Finally work blades open and folded to insure ease of operation: