

SeaSlicer Installation Instructions

Model: HMSS-1.00IN

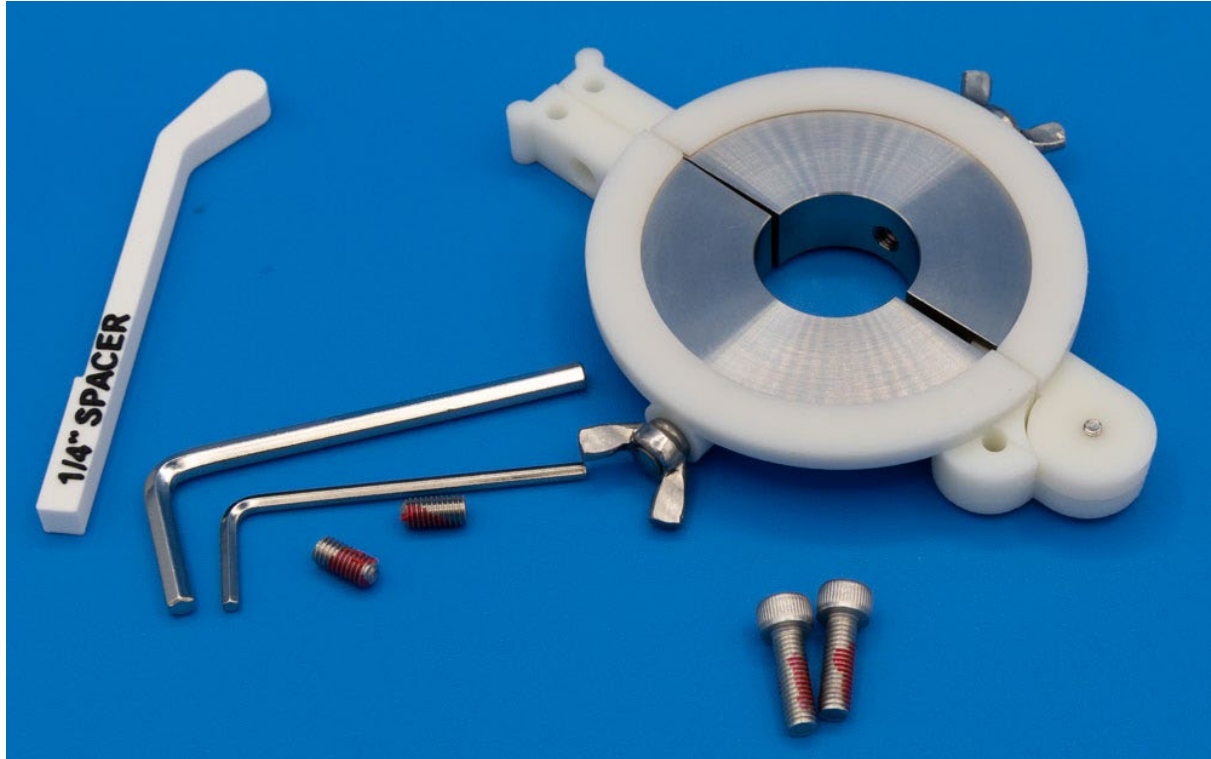
WARNINGS

1. READ ALL INSTRUCTIONS.
2. The exposed edge of the SeaSlicer™ is sharp, DO NOT handle with bare hands.
3. WARNING: TO AVOID INJURY USE AND HANDLE THE SeaSlicer™ WITH EXTREME CARE.
4. DO NOT touch the sharp edge of the SeaSlicer™.
5. DO NOT remove the SeaSlicer™ from the installation tool, except to remove the installation tool once the SeaSlicer™ is installed on a propeller shaft. If removing the SeaSlicer™ from the installation tool, do so ONLY with suitable protective handwear, and ONLY do so ovetop of a workbench.
6. Always warn anyone who could be in contact with the your propeller shaft that a line cutter is installed, including for example divers who could be fixing your propeller.
7. The included installation tool is designed ONLY for installation of the SeaSlicer™. Do not use for other products or brands, even if they appear to fit in the tool.
8. The included installation tool contains powerful embedded magnets. Keep away from pacemakers and all electronic devices! DO NOT allow pets to chew on the plastic, or the plastic to become damaged which could allow the magnets to be removed. If magnets become separated, DO NOT allow children to play with them. Magnets are EXTREMELY DANGEROUS IF INGESTED.
9. The included installation tool is NOT a high-impact guard and is NOT suitable as a safety guard.
10. Remove the SeaSlicer™ when working in the area, for example if you were replacing the propeller or drive shaft. Use the included installation tool to safely remove and store the SeaSlicer™.
11. YOU are responsible for safe installation and use of this product. If you are unsure about installation, contact a marine professional. There is a wide variety of boats, with different requirements including cutlass bearing lubrication clearance, and we make no claim that the instructions herein will apply to your boat.
12. Keep your installation tool for usage as a safe storage tool.
13. Keep a copy of these instructions.



Included Parts

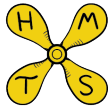
When you open your SeaSlicer™ package, you should see the following parts:



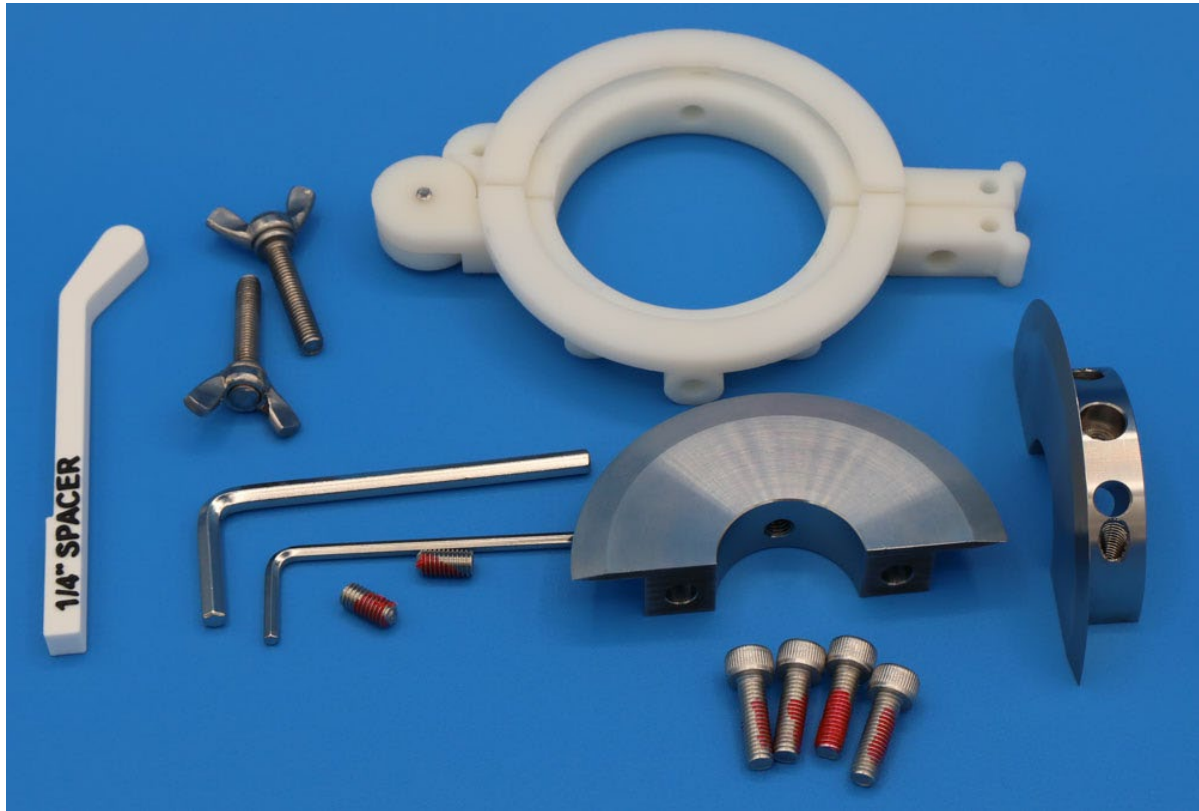
The SeaSlicer™ itself, along with the M5x16mm cap head screws, are already installed. We include a *spare* set of M5x16mm cap head bolts in case you remove the SeaSlicer™ and lose a bolt.

The *complete* parts list of your SeaSlicer™ is:

- SeaSlicer™ upper half, 316/L stainless steel
- SeaSlicer™ lower half, 316/L stainless steel
- SeaSlicer™ installation tool (HMSSTOOL-3.0IN), plastic
- 4x M5x16mm cap-head bolts, 316 stainless steel, 4mm drive
- 2x M5x10mm set screws, 316 stainless steel, 2.5mm drive
- Vibra-Tite VC-3 is pre-applied to all bolts & set screws
- 2x M5 wing nuts, 304 stainless steel (for installation/removal only)
- 2.5mm hex Allen key (nickel plated steel)
- 4mm hex Allen key (nickel plated steel)



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Cutlass Bearing Clearance

Your cutlass bearing requires waterflow. The bearing has small channels, and should have waterflow as you are moving forward.

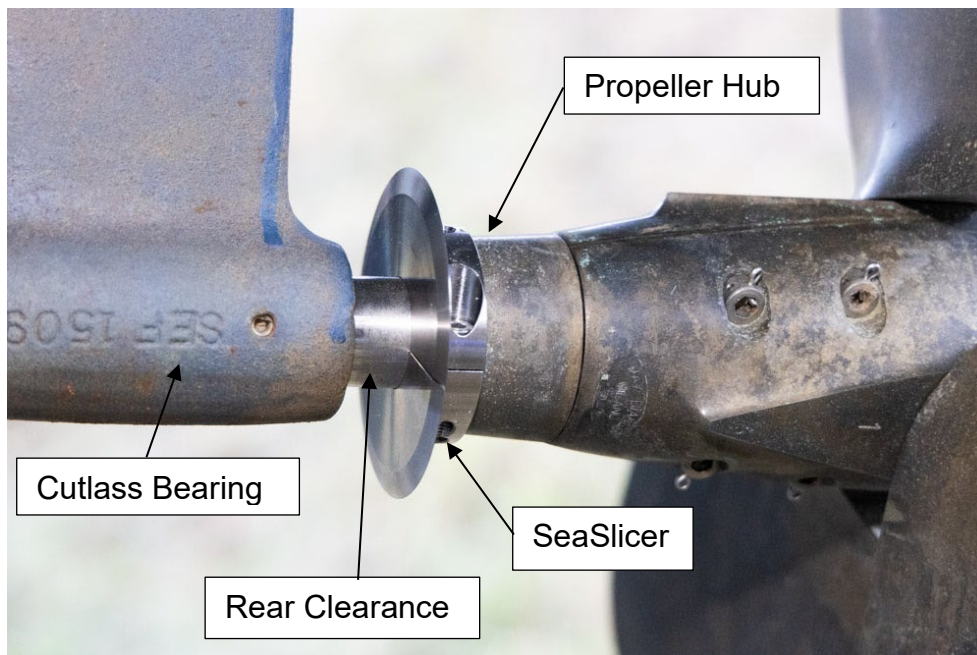
The “stern-facing” clearance is smaller than the “bow-facing”, since water being driven out of the bearing is less sensitive to disruption. But it does need *some* clearance, and of course when you are reversing the flow direction won’t be as above.

This leads to two very important points:

You **must** have sufficient clearance AFTER installing the SeaSlicer™. It shouldn’t “squeeze in” between your cutlass bearing & propeller hub. Typically at least ¼” is recommended for 1” shafts, but higher clearances can be recommended as well.

You **must** install the SeaSlicer™ on the PROPELLER HUB SIDE. Do NOT block it up against the cutlass bearing!

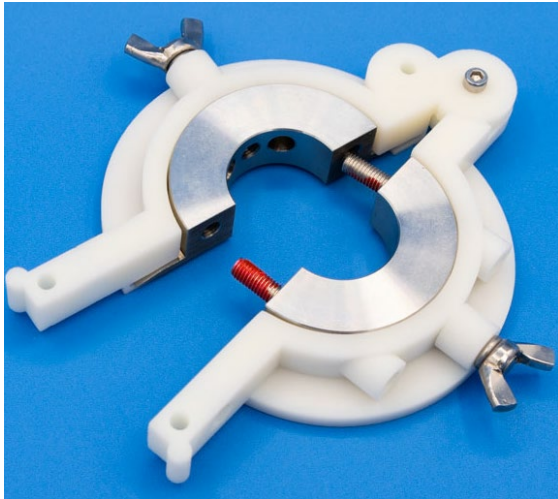
An example installation is shown below:





Installation Instructions

With the provided installation tool, installation is simple. The SeaSlicer™ is already installed in the installation tool, with captive screws held in the installation tool:



WARNING

Edges of the SeaSlicer™ are sharp, DO NOT touch with your hand. DO NOT drop the SeaSlicer™ as the edge will be damaged. We recommend NOT taking the SeaSlicer™ out of the installation tool just to look at it, as it can be easily dropped.

The SeaSlicer™ installation tool includes a lanyard hole. You may wish to pass a small rope through this hole & attach to your driveshaft to ensure you do not accidentally drop the SeaSlicer™ tool. The tool may crack if dropped!

This lanyard hole is especially helpful if you are installing the SeaSlicer™ underwater.

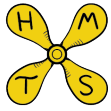


Step by Step Installation Process:

1. Inspect your drive shaft. Ensure it's reasonably clean, and that you have a straight section. Use calipers to double-check the drive shaft is 1.00" +/- 0.05".
The SeaSlicer™ cannot be installed on the tapered section of your shaft.
2. Put the SeaSlicer™ installation tool around your drive shaft, double-checking that the hub of the SeaSlicer™ faces the hub of your propeller:



3. Double-check the spacing is at least 1/4", or as much as your bearing requires. A 1/4" spacer is provided to quickly validate this, and you can use this before tightening the bolts down.
4. Use a 4mm allen wrench to tighten the cap-head bolts. The cap-head bolts need a 4mm allen wrench, which is inserted through the hole in the installation tool. Note that VC-3 is a rubbery compound which means the bolts will become harder to tighten once you hit the VC-3 compound.



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Check the alignment of the two halves as you tighten the bolts. There will be only a very small gap between the upper & lower section thanks to our precision design, which means the SeaSlicer™ will be loose on your shaft until the final tightening.

WARNING

If you remove the SeaSlicer™ installation tool, be very careful with the sharp edge. If further tightening the bolts after removing the installation tool, do so **VERY CAREFULLY**. You can easily damage the SeaSlicer™ cutting edge, or scrape your hand against the sharp blade. For this reason we recommend removing the tool only after final tightening.

5. Fully tighten bolts to 5.5 N-m / 4 ft-lbs / 48 in-lbs.
6. Remove the installation tool by unscrewing the wingnuts, and removing the installation tool. Inspect the installation, check everything looks well aligned and again there is no issue with clearance:



7. OPTIONAL: install the included set screws, which provide additional grip on your drive shaft. This may be required if your drive shaft is slightly undersized or was not fully clean.

Maintenance

Preventing & Treating Corrosion

While the SeaSlicer is made of high quality 316 stainless steel, the use of stainless steel underwater can still result in corrosion. This is especially the case where marine growth happens – treat your SeaSlicer as you do other underwater areas of your boat, such as coating with a suitable marine growth prevention paint.

Sharpening

Your continuous blade SeaSlicer can be sharpened like any stainless steel knife. You may remove it from the shaft for this. Use only a new file or grinding stone, or one which has only been used with 316 grade stainless steel.

Using a file or grinding stone which has been used on 18-8 stainless steel or regular steel will result in metal particles embedded in the surface of the SeaSlicer, which will very quickly lead to rust or corrosion. The warranty does not cover corrosion caused by this act.

Removing SeaSlicer

The installation tool that is included with the SeaSlicer is also used for removing the tool. Simply clamp the tool back onto the SeaSlicer, install the wing-nuts, and loosen the cap-head screws. The tool will keep the SeaSlicer safe, and can be used for storage of the tool.



Warranty

Halifax Maritime Tool and Supply provides a limited 12-month warranty (24-months with free registration) from the delivery date of the SeaSlicer to the customer.

This limited warranty covers defects in materials or workmanship of the SeaSlicer line cutter under normal use during the warranty period.

This warranty does not cover a) any problems which result from damage by negligence or accident or other circumstances beyond the reasonable control of the Manufacturer, b) Product that has been repaired or altered by anyone other than Manufacturer approved personnel; c) Product that has been improperly used or maintained or that has been subjected to abnormal conditions of use or maintenance not in conformity with the Manufacturer's written instructions concerning use or maintenance.

Limitation of Liability: Under no circumstances will the Manufacturer, the Supplier, or any affiliate of either of them be liable, whether in contract, tort, or otherwise (including based on negligence or strict liability), for any special, indirect, incidental, punitive, or consequential damages of any kind. Without limiting any other provision hereof, the maximum liability for direct damages in respect of any Product shall not exceed the actual price paid to the Manufacturer or the Supplier for the Product. You are responsible for insuring that the use of any Product complies with all applicable laws and regulations, and with any applicable product specifications and documentation.

You are responsible for installing the product in a manner suitable for your boat, including keeping any required clearance for your cutlass bearing or other parts of your drive system.

The manufacturer, the supplier or affiliate of either of them will not be responsible for the cost of hauls, launchings, diving, or other related installation/removal charges.

The coverage of the warranty lasts for one year (two years if registration form is submitted within 30 days of purchase) after the date of purchase of your Product. Notice of any claim under the warranty must be received by the Supplier during that one year period (two year period if registration form is submitted within 30 days of purchase).

NEITHER THE MANUFACTURER, THE SUPPLIER, NOR ANY AFFILIATE OF EITHER MAKES ANY OTHER WARRANTY (EXPRESS OR IMPLIED) OF ANY KIND IN CONNECTION WITH THE PRODUCT. THE MANUFACTURER, THE SUPPLIER AND THE AFFILIATES OF EACH OF THEM DISCLAIM ANY AND ALL IMPLIED WARRANTIES INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT, OR FITNESS FOR A PARTICULAR PURPOSE.



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Disclaimers

Product may not be exactly as shown. We are continuously making improvements to our design and products, and this page may not reflect the latest version of our products. Examples of such changes may include but are not limited to adjusting the length of bolts, colors or composition of plastic parts, lengths and styles of included tools, and use of bolt locking mechanisms.

SeaSlicer is a trademark of Halifax Maritime Tool and Supply. The SeaSlicer installation tool has patents pending, and may be subject to patent enforcement worldwide.

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