Grounding Brush Assembly

Grounding brush fitted to a Sunseeker Portofino



The installation of the Tides Marine grounding brush assembly on the Sunseeker Portofino has proven to be effective in enhancing the vessel's electrical bonding and shaft grounding performance. Since fitting, the system has operated smoothly, maintaining consistent contact between the rotating shaft and the vessel's grounding network. This has resulted in improved dissipation of stray electrical currents, thereby strengthening the overall cathodic protection of the vessel.

Key Benefits:

Corrosion Prevention:

- Provides a reliable, low-resistance path for stray electrical currents.
- Equalizes electrical potential between the propeller shaft and underwater metals.
- Protects critical components by reducing galvanic corrosion effects.

Reduction of Electrical Interference:

- Maintains constant electrical continuity with the rotating shaft.
- Minimizes electrical noise that can affect sensitive onboard electronic systems.

Durable Construction:

- High-performance brushes engineered for extended service life.
- Designed to deliver a minimum of 2,500 running hours or 2 years under standard operating conditions.

Grounding Brush Assembly



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Grounding Brush Assembly

FOR PENTAGONAL SHAPED CAPS ONLY!

Product Description:

The Tides Marine Brush Bar is a precision-engineered shaft bonding solution designed to mount directly to the Tides Marine Shaft Seal head. It maintains continuous electrical contact with the rotating propeller shaft, ensuring seamless integration with the vessel's cathodic protection system.

Fitted with high-performance brushes, the assembly effectively mitigates galvanic corrosion across underwater metals while significantly reducing electrical interference within onboard systems. By electrically connecting the drive shaft to the vessel's bonding system, it enhances the longevity and reliability of critical propulsion components.

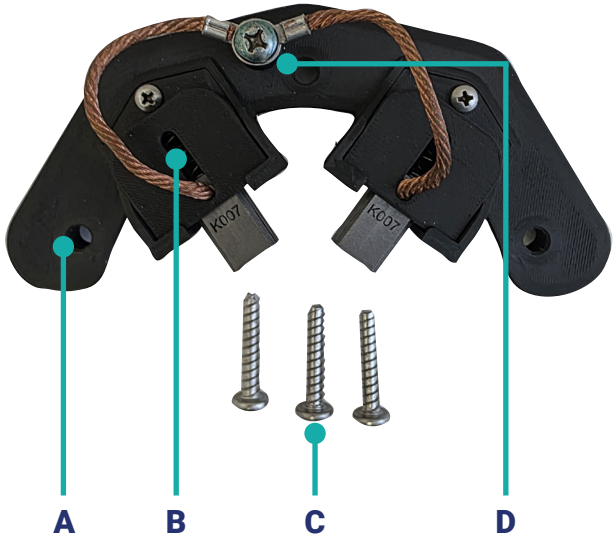
Available in single or double configurations to suit varying propeller shaft sizes, the system offers installation consistency across both variants.





Components List:

The following components are included in the Grounding Brush Assembly (Double Unit).



PART	DESCRIPTION	QTY
A	Grounding Brush Assembly	1
B	Grounding Brush Modules	2
C	Longer Attachment Screws	3
D	Ground Screw	1

Replace the Grounding Brush Module

Periodically inspect the Grounding Brush Module to verify that the grounding brush has not reached the end of its service life.

Excessive wear can be identified visually by the presence of exposed copper wire positioned at the base of the slot within the module.

Grounding Brush Modules



The brush assembly is constructed from a fibre-reinforced composite material, with the housing engineered to provide a high level of strength, durability, and a compact design.

The material is non-absorbent, ensuring it does not take on water and thereby maintains its structural integrity and performance in marine environments.

