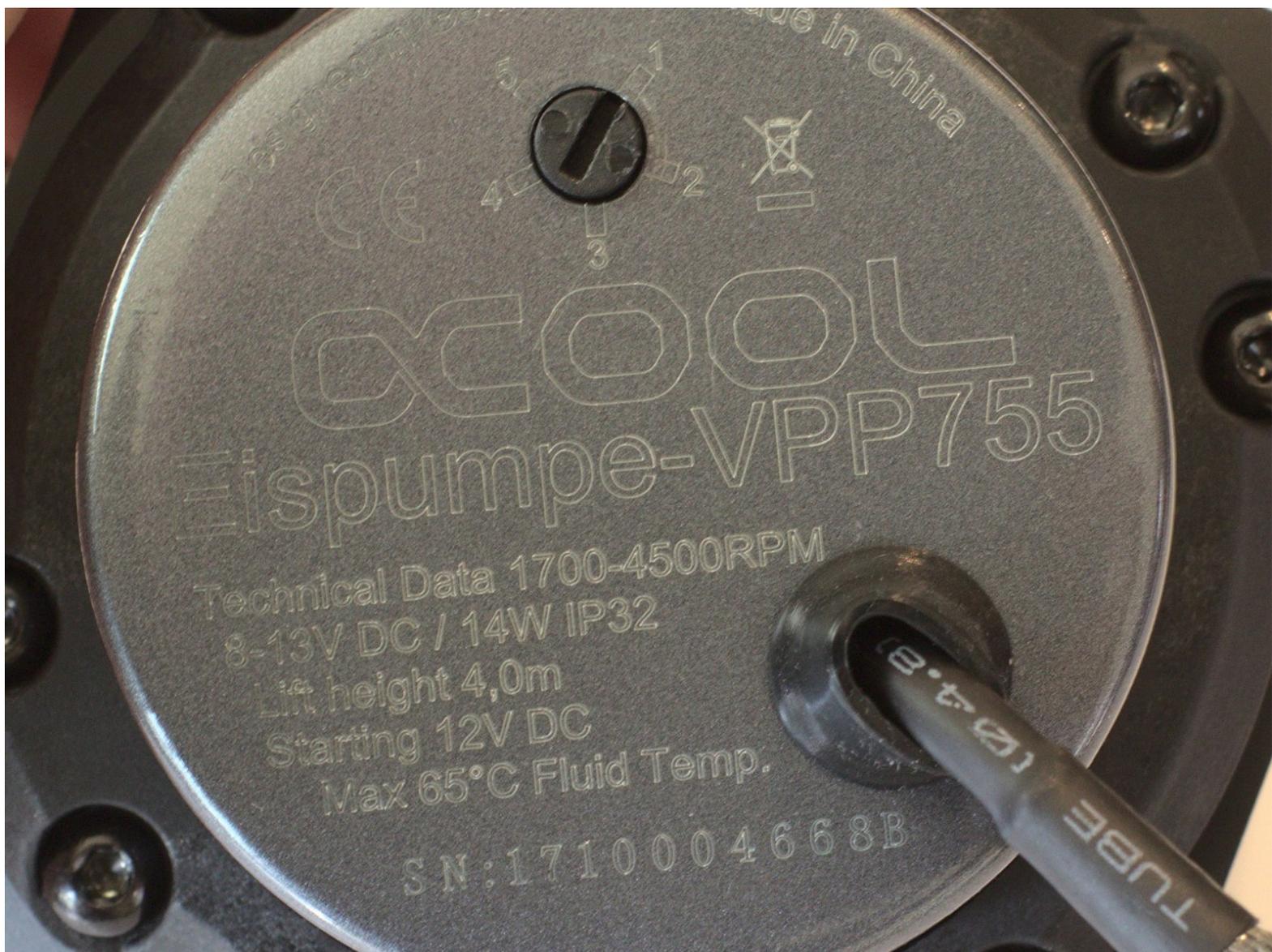




Impeller Thrust Washer Replacement for Alphacool Eispumpe VPP755

A step by step repair guide demonstrating the disassembly and replacement of impeller thrust washers for the Alphacool Eispumpe VPP755 Cooling Pump.

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INTRODUCTION

If your Alphacool Eispumpe VPP755 V.1 or V.2 makes a grinding sound during operation, stops and starts randomly or doesn't seem to flow liquid, use this guide to replace the impeller thrust washers.

The thrust washers provide a low friction surface for the impeller to spin against during operation. Damaged or defective thrust washers can cause the pump to omit a loud grinding noise and negatively affect its performance.

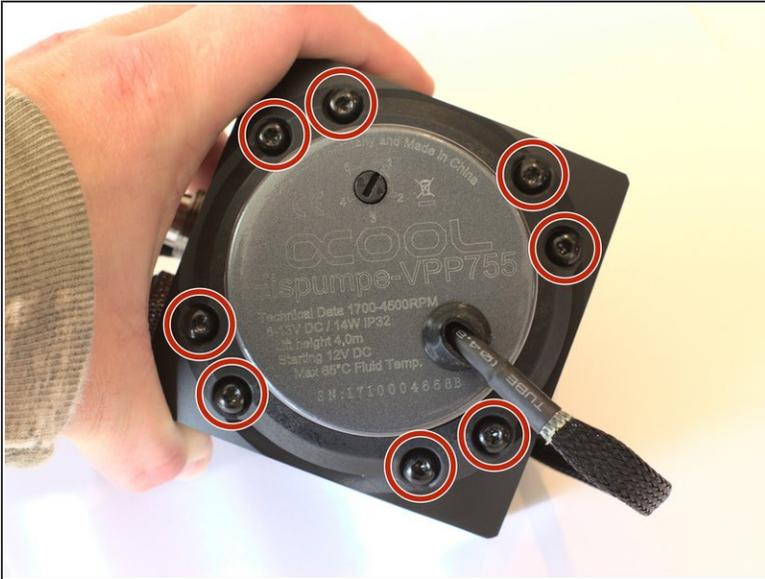
Step 6 requires you to carefully remove the keeper washer and is the most difficult task for this guide as the keeper can break if removed too aggressively.

Before beginning, make sure the pump is disconnected from any power source.

TOOLS:

- [2.5 mm Flathead Screwdriver](#) (1)
 - [3mm Hex Key](#) (1)
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Step 1 — Impeller Thrust Washers



- Remove the eight 3.5 cm M4 hex screws securing the pump to the shroud.

Step 2



- Remove the tension ring and separate the pump from the shroud.

Step 3



- Gently wiggle the 2.5 mm flat head screw driver in between the divide of the keeper washer.
- Slowly raise one side of the keeper washer above the top of the ceramic shaft.
- Place the flat head screw driver under the opposite side of the keeper washer and pop it off the shaft.

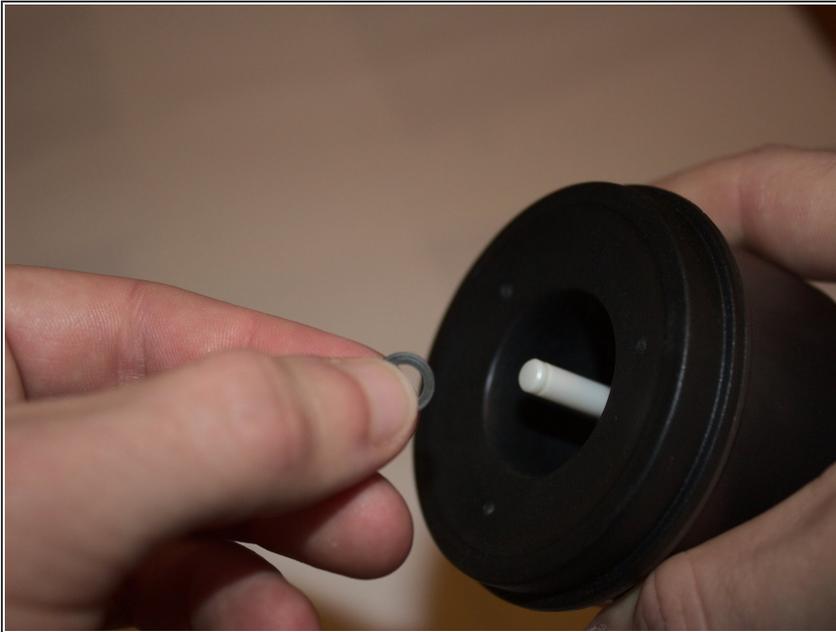
⚠ Bending the keeper washer too far can break it. Be gentle when performing this step.

Step 4



- Remove the white keeper washer and the black upper thrust washer.
- Separate the impeller from the pump body.
- i** Expect resistance when separating the impeller as a magnet is holding it down.

Step 5



- Remove the black lower thrust washer to complete the disassembly.

Step 6



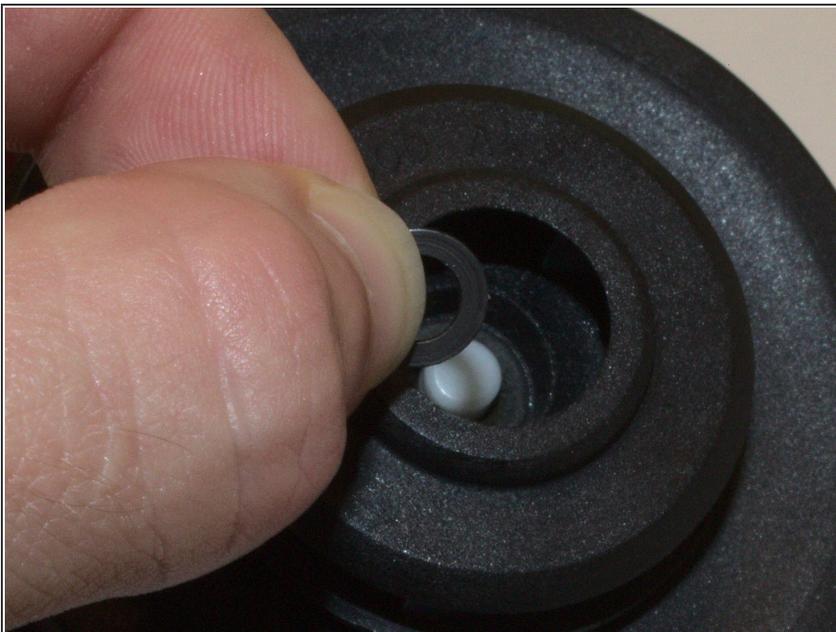
- Install the first new thrust washer to the bottom of the ceramic shaft.

Step 7



- Install the impeller back onto the ceramic shaft on top of the bottom thrust washer.

Step 8



- Install the new top thrust washer onto the ceramic shaft.

Step 9



- Place the keeper washer on the tip of the ceramic shaft.
- Use the flat head screw driver and the hex wrench to push both sides of the keeper washer down until it reseats itself on the shaft.

Step 10



- Place the pump into the bottom of the shroud and reposition the tension ring.

Step 11



- Screw in the eight 3.5 cm M4 hex screws to complete the reassembly.