



3 - Propeller Assembly

Written By: REA



 **TOOLS:**

- Screwdriver (1)
 - Small Flathead Screwdriver (1)
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Step 1 — Removing the Impeller

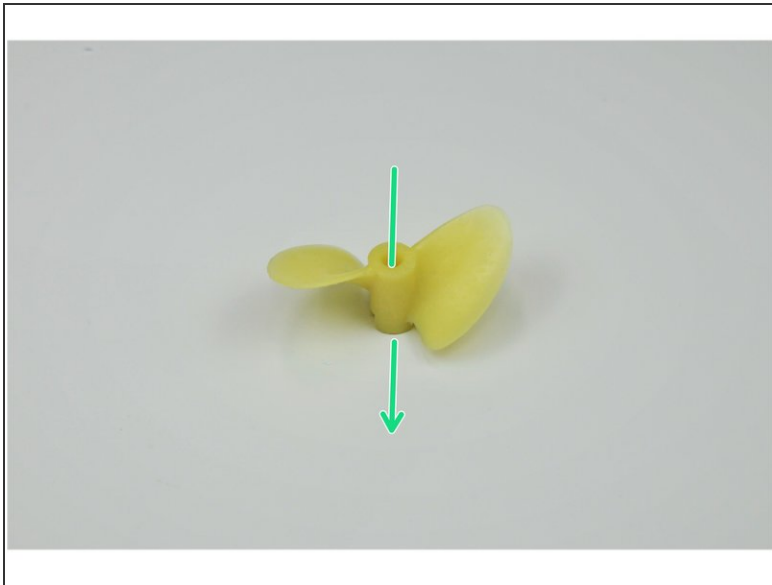


- The motor come with an impeller (tan disk) attached. The impeller needs to be removed and a propeller attached.
- Use a small flat-head screw driver to remove the impeller
- Use a small flat-head screw driver to remove the impeller.

Step 2 — Assembling the Propeller



- Collect the components of the propeller assembly as pictured.

Step 3

- Insert the bolt through the propeller so the head of the bolt is away from the notch on the propeller.
- This may require the use of a screwdriver.

Step 4 — Understanding Loctite



- Put a drop or two of Purple Loctite on the tip of the bolt and screw the nut onto the bolt so it spreads the Loctite down the threads.
- NOTE: Loctite is not a glue, but a thread lock. Without using Loctite, the bolt (with propeller attached) will spin out of the propeller adapter (it will unscrew itself instead of pushing the ROV through the water).
- You will lose your propeller to the bottom of the pool. Loctite is a thread lock, which will lock the bolt and screw in place. With the appropriate force, Loctite connections can be removed.
- Normal ROV operations will not do this, but you can remove the propeller from the motor if needed.
- To remove the propeller, use pliers, needle nose pliers, and/or a screwdriver. That will provide the force needed to remove the propeller.
- Do not forgo using Loctite for fear that you will be able to remove the propeller. Loctite is designed to be removable.

Step 5



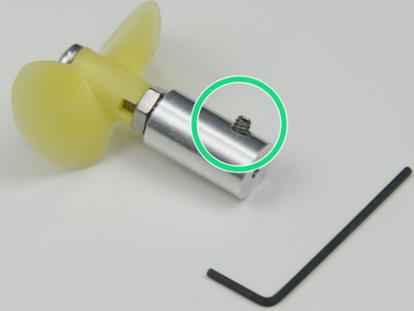
- Tighten the nut against the propeller using pliers and screwdriver.

Step 6



- Insert the bolt into the threaded hole at the back of the propeller adapter.
- Use pliers and a screwdriver to tighten the bolt into the adapter.

Step 7



- Unscrew the small set screw but do not remove it completely.

Step 8



- Install the propeller adapter over the shaft of the motor, lining up the set screw with the flat part of the motor shaft.

Step 9



- Use the green cardboard (or fold a piece of paper) as a spacer to keep the metal of the adaptor from rubbing on the plastic housing of the motor.

Step 10



- Apply one drop of Purple Loctite to the set screw and screw it all the way in, tighten the set screw securely against the flat part of the propeller shaft.