



# Propel Graviton Rotor Assembly Replacement

This guide will show you how to replace the damaged rotor assembly on a Propel Graviton.

Written By: Kyle Mott



## INTRODUCTION

When drones crash into obstacles or the ground, parts can be damaged. Debris (any foreign material) may become lodged in gears and cause them to break, or blunt force may damage them.

If your drone's rotor assembly isn't functioning properly because of damaged or dirty parts, then this guide is for you.

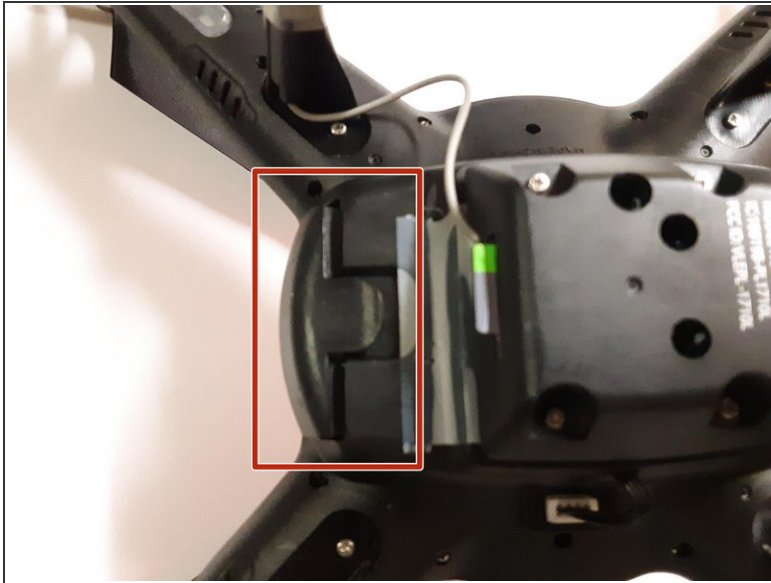
All four of the drone's rotor assemblies are the same (minus the camber of the propellers, two of which are labeled A and the other two, B). This guide can be used to repair any of these by replacing their broken components.



### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
  - [Tweezers](#) (1)
  - [Spudger](#) (1)
-

## Step 1 — Rotor Assembly



- Remove the battery.

## Step 2



- Remove the 4mm screw that holds the propeller to the axle using a Phillips #00 screwdriver.
- ⚠ When re-assembling your drone, be careful not to over tighten the screws. The drone body is made of soft plastic, doing so may strip the screws' housing and prevent them from holding.
- Remove the propeller by pulling it upwards away from the assembly.

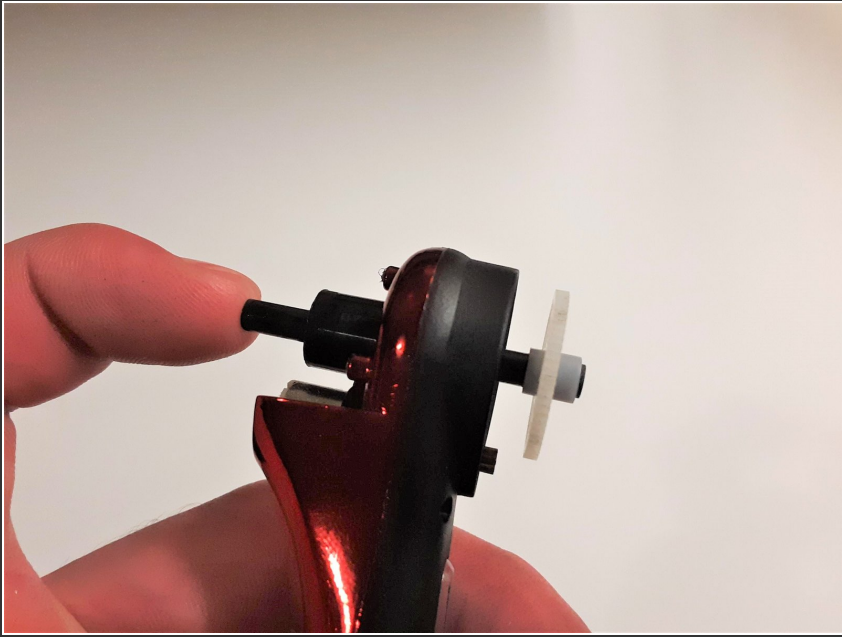
## Step 3



- Remove the three 6mm screws holding the propeller guard with a Phillips #00 screwdriver
  - ⓘ The drone motor may be magnetized, making it difficult to remove or install the screws. Using the tweezers to grip them is recommended.
- ⚠ When re-assembling your drone, be careful not to over tighten the screws. The drone body is made of soft plastic, doing so may strip the screws' housing and prevent them from holding.

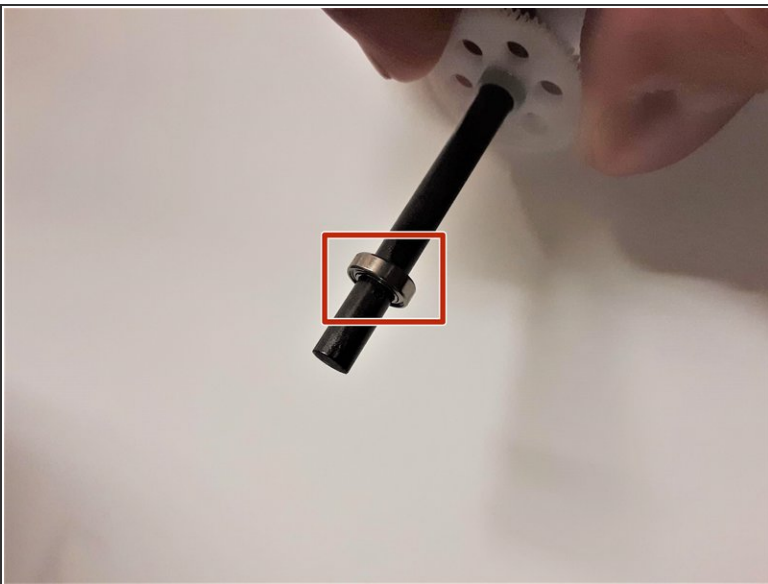


## Step 4



- Using your finger, gently push on the top of the propeller axle and remove out of the bottom of its housing.
- ⓘ Ensure the axle is cleared of debris.

## Step 5



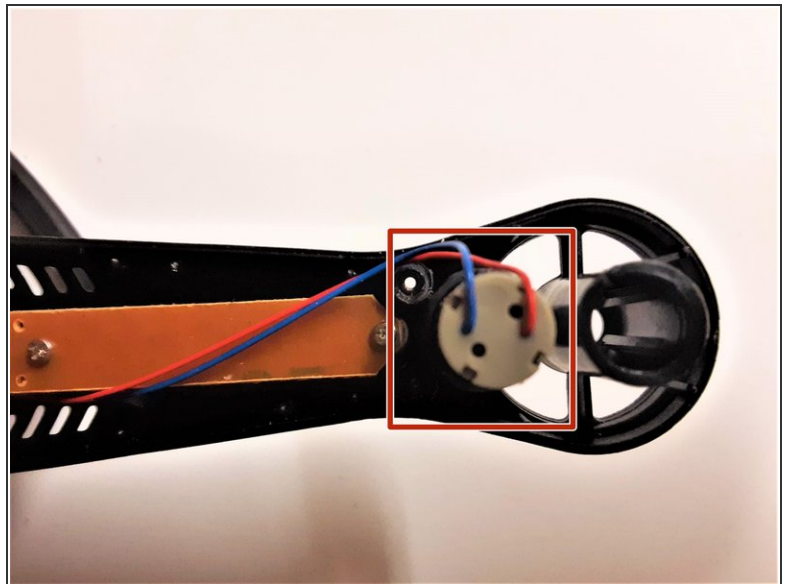
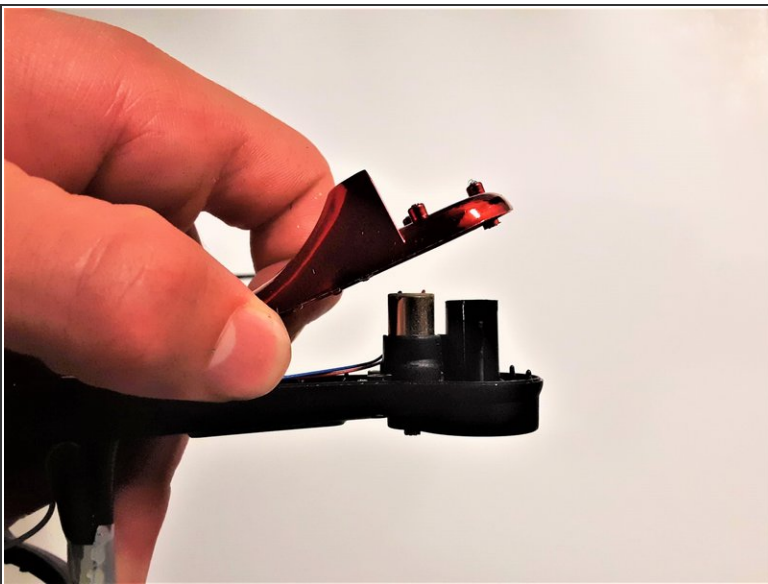
- Remove the wheel bearing from the axle using your fingers.
- Remove the wheel bearing from the axle housing with a pair of tweezers.
- ⓘ Ensure the axle housing is clear of debris.

## Step 6



- Remove the three 6mm screws with a Phillips #00 screwdriver.
- ⓘ Some of the screws may not completely remove from the black housing. A slight tap may jar them loose, but this is not necessary.
- ⚠ When re-assembling your drone, be careful not to over tighten the screws. The drone body is made of soft plastic, doing so may strip the screws' housing and prevent them from holding.

## Step 7



- Gently pry the top and bottom drone housing apart with a spudger to reveal the motor.
- ⓘ Ensure the housing is cleared of debris.
- Replace the motor (if it is necessary).

To reassemble your device, follow these instructions in reverse order.