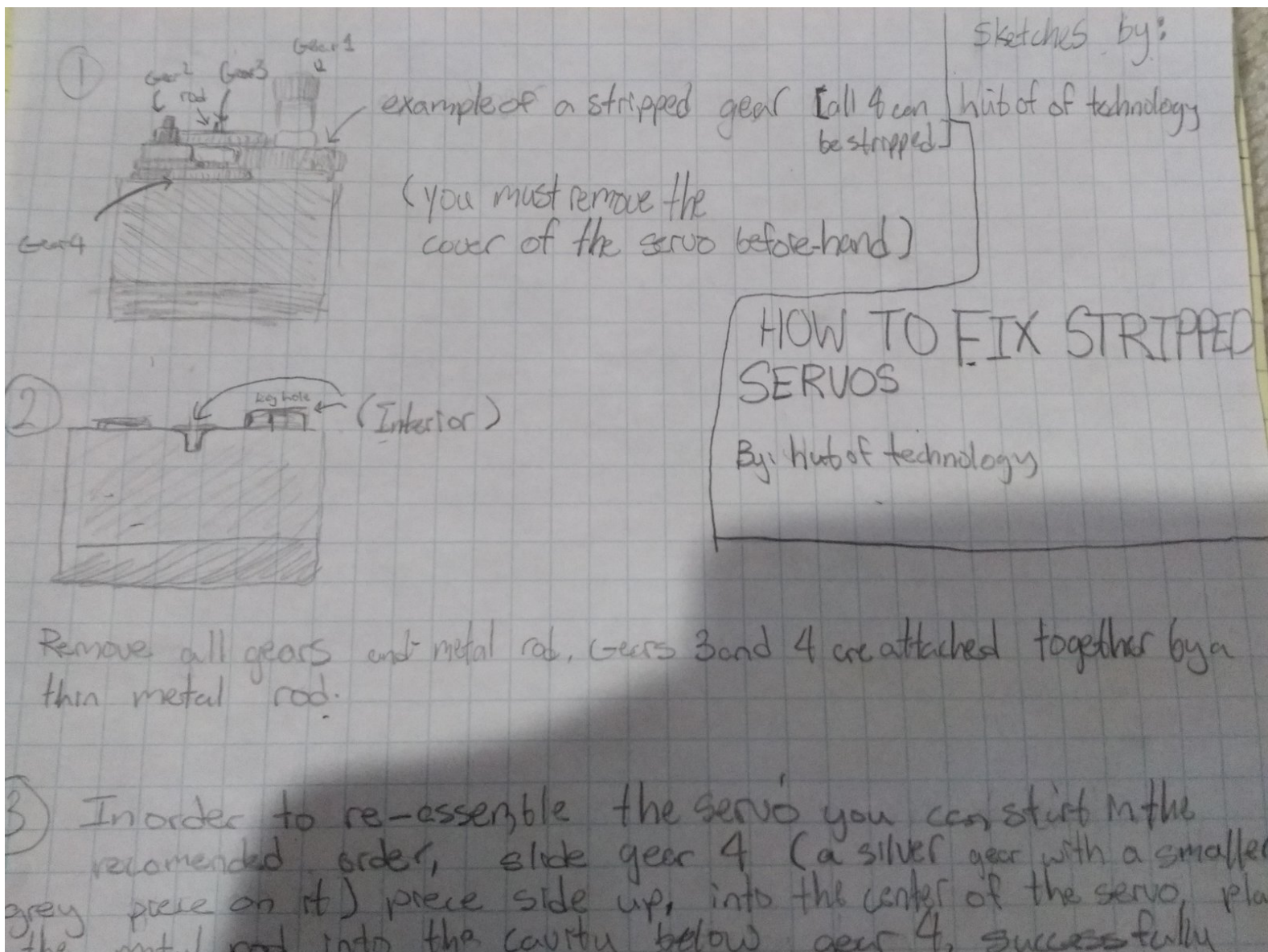




How to replace stripped REV-41 servos.

If your REV servos are not working but are creating some sort of noise (Most create a grating noise when used/turned on) they are most likely stripped.

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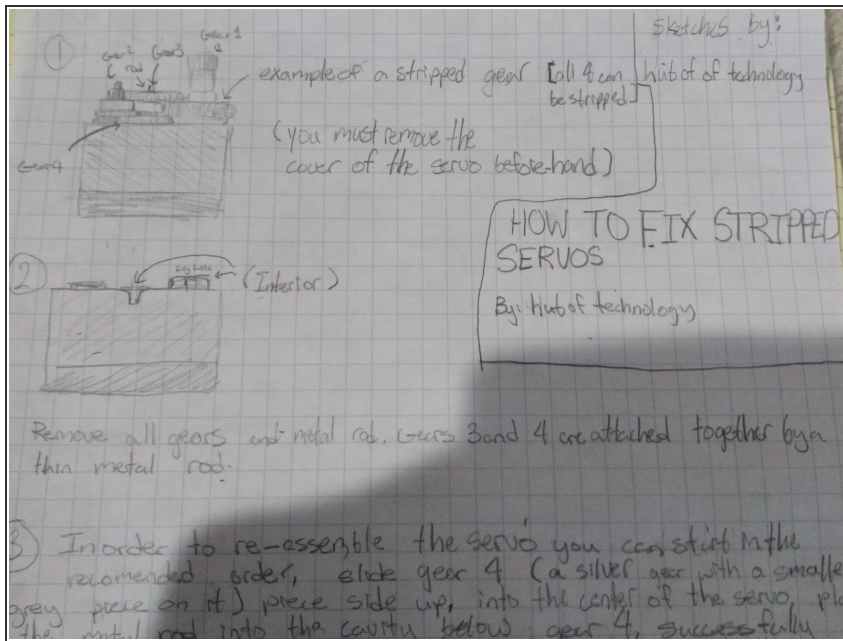
INTRODUCTION

Replacing servos does not look easy. After getting the gist of how the servo works, and what it's internal parts are will help a lot. This guide is to help people fix stripped servos. As it can be challenging at times, This guide will help with fixing stripped and only stripped servos. Stripping servos happens when too much force is exerted on the servo or too much force overtime is exerted on the servo, cause it's gears to rub against each other and consequently destroying (Usually more than one) gear. (The rubbing will happen to the teeth of the servo.)

TOOLS:

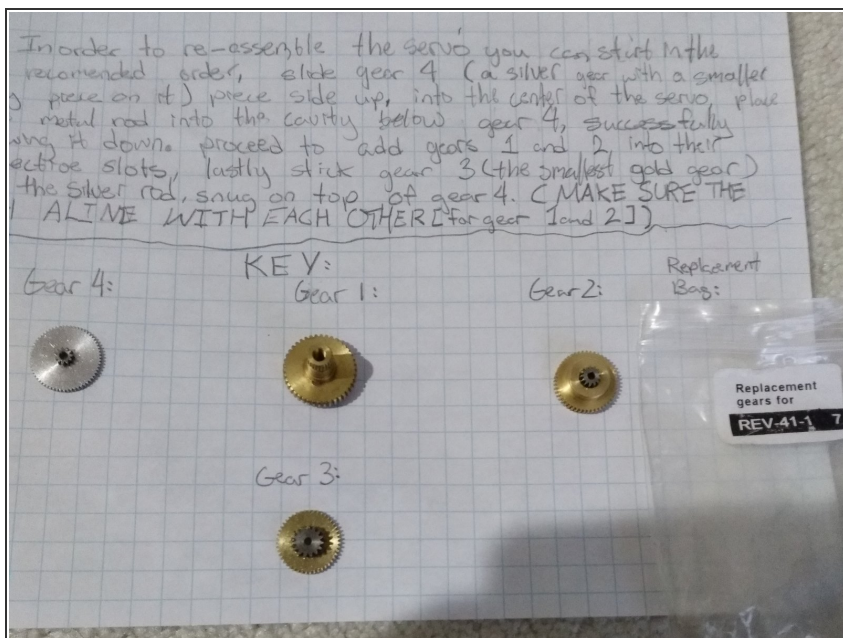
- [Bostitch Office Stanley 4-In 1 Pocket Screwdriver Pack of 2 \(66-344-2\)](#) (1)

Step 1 — Diagram to help fix the stripped servo



- This is half of a diagram that I drew to help beginners fix stripped servos. In order to fix them you must disassemble the servo, remove the stripped gear and prepare new gears for use. I suggest taking a image of the stripped servo as it will help with assembly and documentation. Use step 4's picture to help you re-assemble your servo.

Step 2 — (Diagram Key) + Instructions to replace the stripped servo



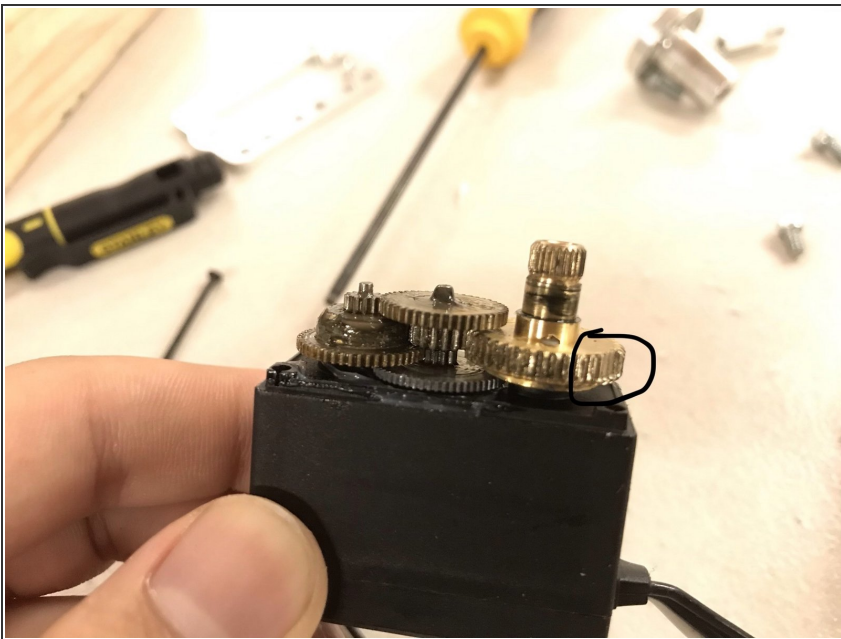
- This half of the picture contains instructions to fix the stripped REV servo and a key to help interpret my crude outlines.

Step 3 — How to figure out if a gear has been stripped



- This picture is a comparison between a stripped gear and a new gear. Stripped gears generally will be missing teeth or will be grinded/sanded down to the point there they are partially smooth.

Step 4 — How to spot a rubbed gear



- As you can see from the picture the servo has the top already removed, the picture shows the stripped servo (Circled in black) To remove the servo we used a screwdriver (Specifics are listed in the details) You might need grease to help with the replacement gears as they are not greased beforehand.

To reassemble your device, follow these instructions in reverse order. I will warn that it's much easier to simply replace the stripped one with a new one but if needed you can use this tutorial to fix one.