



Xbox 360 Wireless Controller 3D Analog Sensor Replacement

Written By: David

INTRODUCTION

Your controller analog stick may undergo wear and tear over time. You will notice movement on the screen with no user input, such as your character's position or aim steadily changing. Use this guide to replace your analog sensor and prevent unwanted movement.



TOOLS:

- [Soldering Iron](#) (1)
- [Solder](#) (1)
- [desolder pump](#) (1)



PARTS:

- [3D Analog Sensor](#) (1)

Step 1 — Battery



- Depress the battery release button on the top of the controller.
 - Remove the battery holder from the controller.
- i** The standard option for Xbox 360 Wireless Controllers Battery Packs is AA batteries. A rechargeable battery is also available, but both battery options are removed from the controller in the same way.

Step 2 — Rear Case



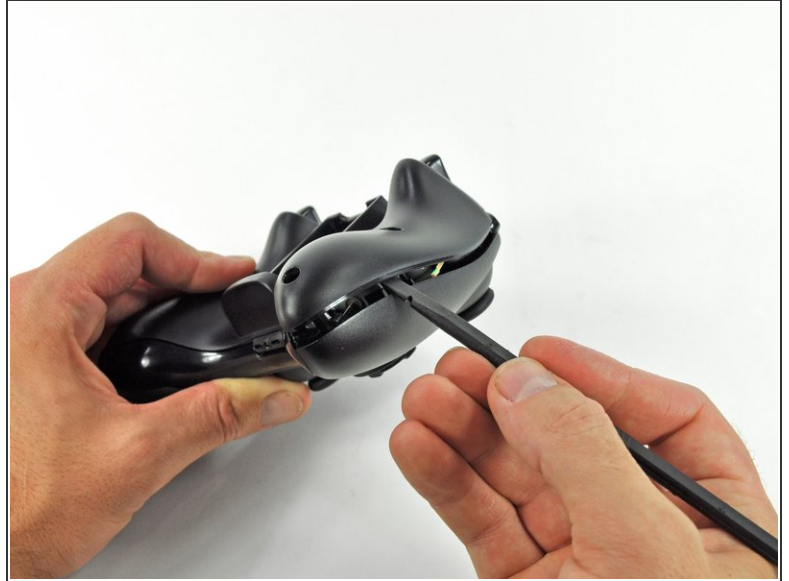
- Use a pair of tweezers to peel the barcode sticker from the battery compartment.

Step 3



- Remove the seven 9.3 mm T8 Security Torx screws securing the rear case to the front case.

Step 4



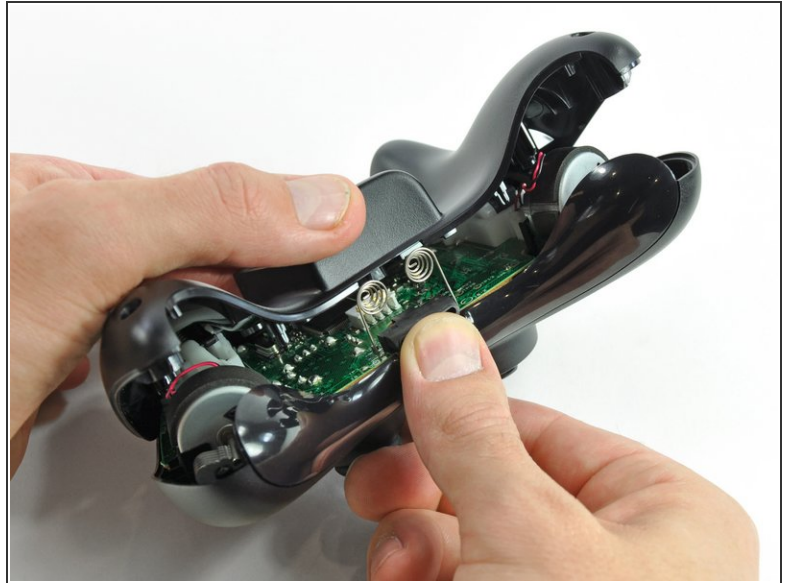
- Insert a [Spudger](#) between the front and rear cases along the left edge of the controller.
- Rotate the spudger toward the front of the controller, prying the two cases apart.

Step 5



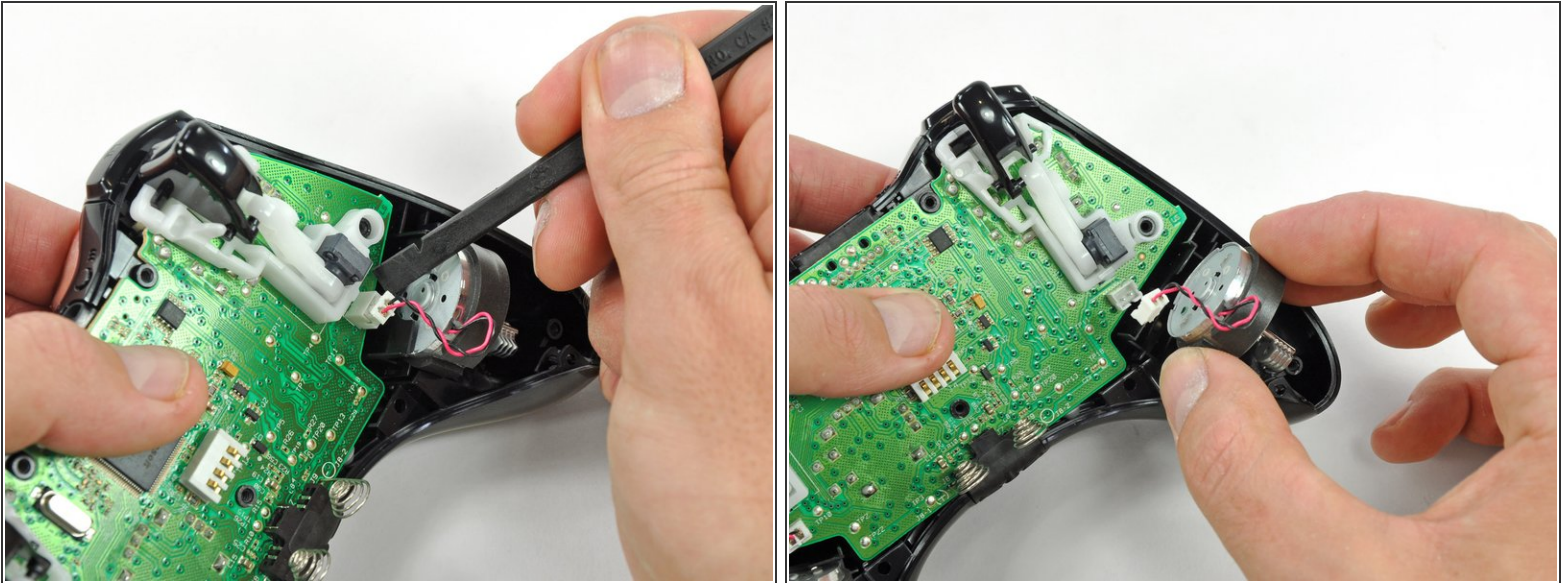
- Insert a spudger between the front and rear cases, near the headphone jack.
- Rotate the spudger toward the front of the controller to pry the two cases apart.

Step 6



- Grasp the controller by the battery compartment and the headphone jack.
- Lift the battery compartment away from the headphone jack, separating the rear case from the front case and logic board.
- ☑ The battery contact springs are held in place by slots in the battery housing in the rear case. Be sure to realign them properly during reassembly.

Step 7 — Vibration Motors



- Use the flat end of a spudger to remove the vibration motor cable, moving it upward from its socket on the logic board.
- Lift the vibration motor out of the front case.

Step 8



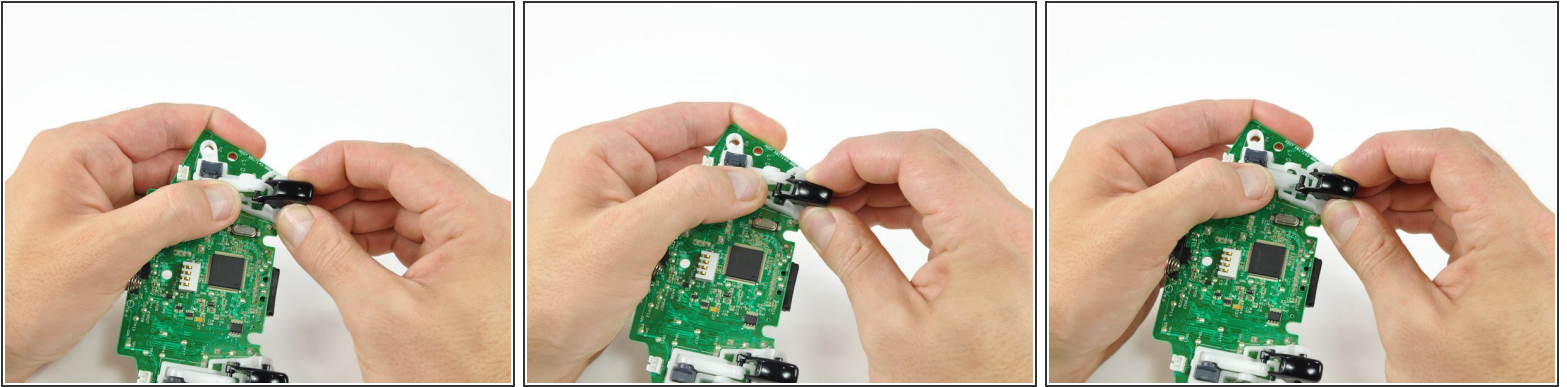
- Remove the vibration motor from the other side of the controller using the same method previously described.
- ⓘ The right motor has significantly more counterweight than the left motor.

Step 9 — Logic Board



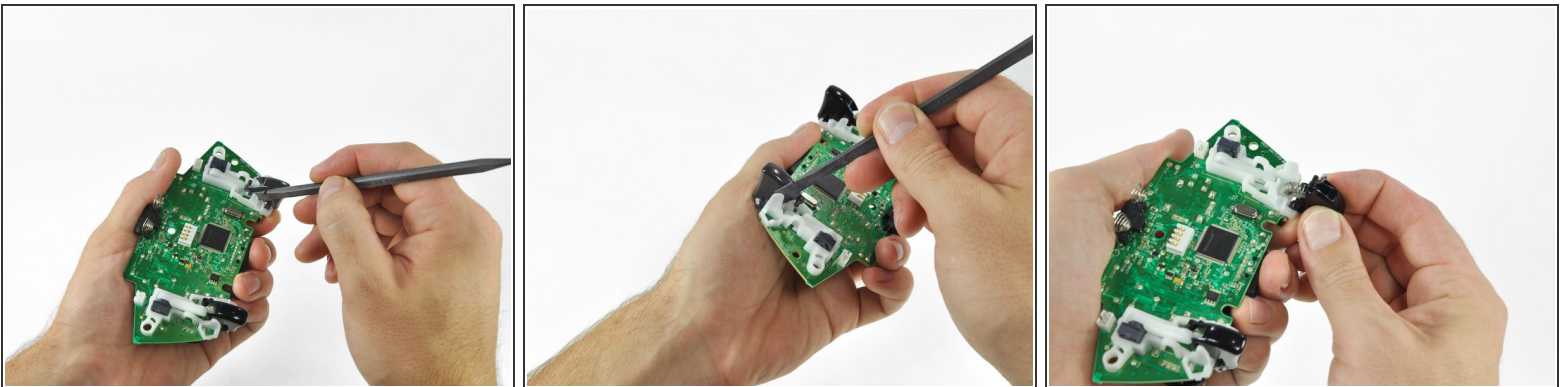
- Lifting from the headphone jack and power plug, remove the logic board from the front case.

Step 10 — Triggers



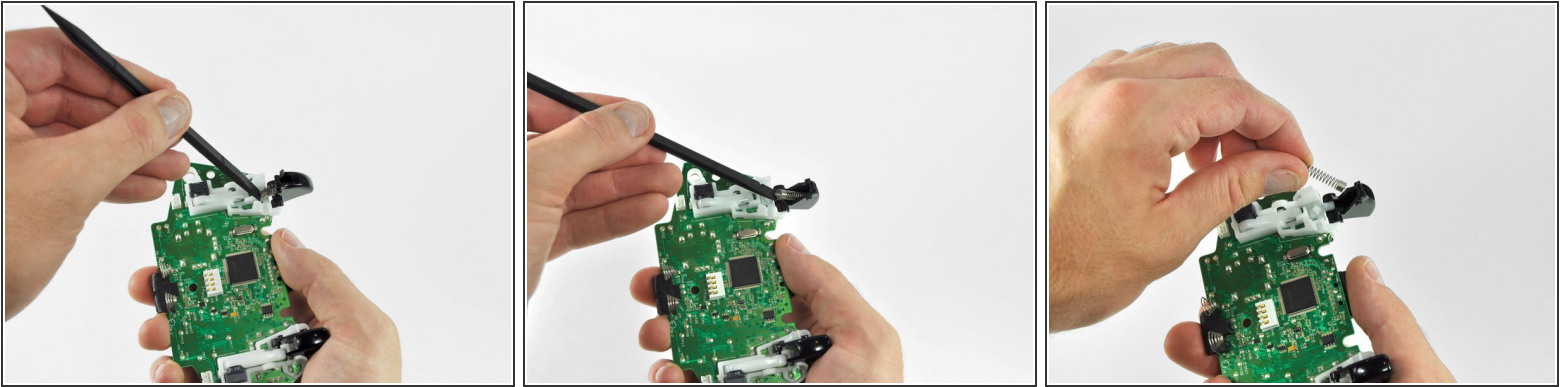
- Using your thumb and forefinger, push the left trigger toward the right side of the controller. Simultaneously push the trigger control arm in the opposite direction.
- ☑ The trigger has a peg that fits into a slot in the trigger arm. Be sure to push far enough so that the peg clears the slot.
- Push the trigger arm downward.

Step 11



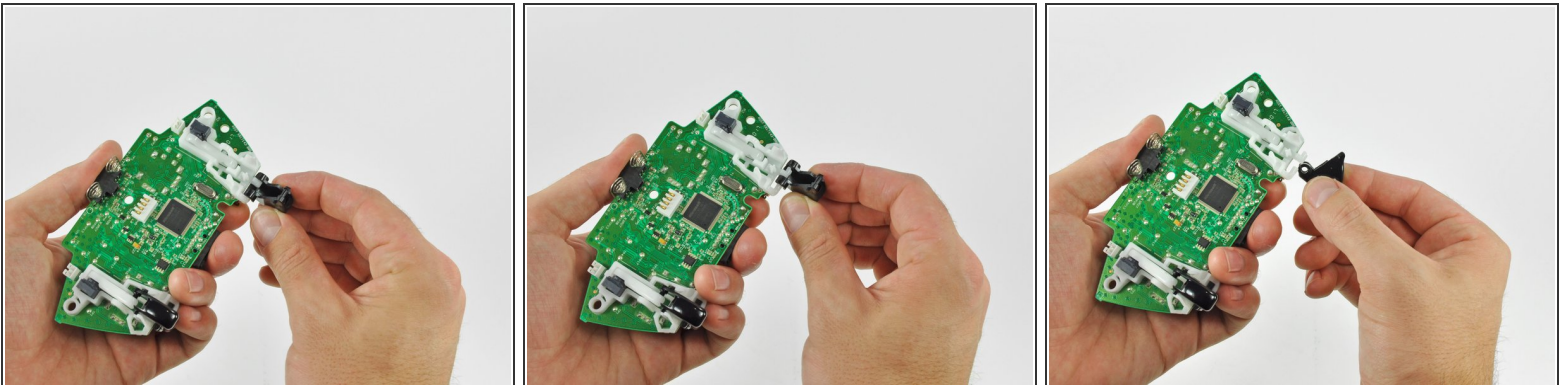
- Insert the edge of a spudger in between the trigger and the trigger assembly near the left edge. Pry the housing away from the catch on the trigger.
- Using the previously described technique, pry the housing on the right edge away from the trigger.
- Rotate the trigger away from the logic board, past its housing.

Step 12



- Using a spudger, pry the trigger spring off its peg on the trigger housing.
- Pull the trigger spring out of the trigger.



Step 13



- Slide the trigger toward the right side of the logic board, and rotate it clockwise.
 - Remove the right trigger from the logic board.
- i** To remove the left trigger from the logic board, follow the procedure previously described for the right trigger.


Step 14 — Trigger control



-  To remove the trigger control, only one has to be removed as it is over the analog sensor (left side).
- Optional: It is easier to remove both, so as to avoid burning or melting the plastic while working.
-  The part should easily slide out once the solder is properly removed. If not, go back and check for solder left in the joints.

Step 15 — Analog Sensor



- Heat and suck up the solder.
- Remove analog sensor and place new part.
-  The part should easily slide out once the solder is properly removed. If not, go back and check for solder left in the joints.

Step 16



- Hold part in place and make a quick solder to hold it up in place.
- Now solder all joints and follow in reverse.

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