



Xbox 360 Wireless Controller Right Analog Stick Replacement

Most common error with the controller is a drift or a loose right analog stick (potentiometer). This will show how to repair the right side.

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INTRODUCTION

Straight forward replacement of the analog joystick on the controller. Too much COD Black Ops can leave it feeling loose and can cause a drift. The toughest part of this repair was the disassembly of the controller since it requires a Torx T8h screwdriver. Make sure you have it before starting this repair.



TOOLS:

- [T8 Torx Security Bit Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Soldering Workstation](#) (1)



PARTS:

- [Xbox 360 Wireless Controller Joystick](#) (1)

Step 1 — Right Analog Stick



- Here is the controller that will get new analog sticks.
- Depress the battery release button on the top of the controller. Remove the battery holder from the controller.
- Use tweezers or similar instrument, to peel the barcode sticker from the battery compartment over the battery holder from the controller.

Step 2



- Remove the seven 9.3 mm T8 Security Torx screws securing the rear case to the front case.
- Insert a plastic opening tool between the front and rear cases along the left edge of the controller. Rotate the tool toward the front of the controller to pry the two cases apart.
- 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.

Step 3



- Tilt the bottom case slightly toward the trigger buttons to slide it off the top case
- Here is a view of the inside of the controller. Note the vibration motors having different counter weights.
- Remove the connector from the left motor (controller is positioned upside down, left controller will be shown right etc.)

Step 4



- Remove the connector from the right motor
- Both motors are disconnected. Notice position of the motors inside the case for re-assembly.
- Remove logic board

Step 5



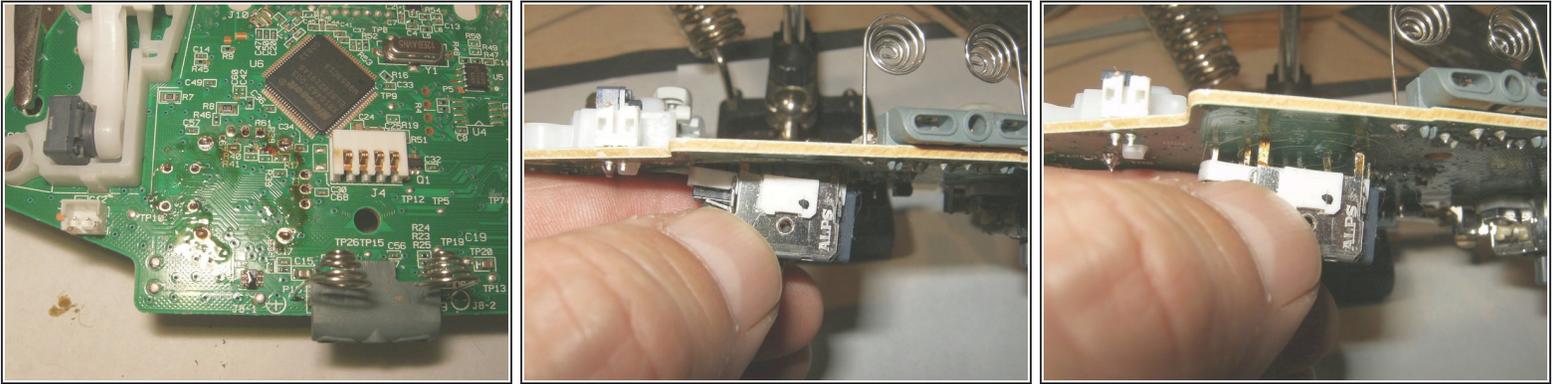
- Notice placement of rubber membranes of the front case for reassembly.
- To remove the covers of the analogs sticks, simply pull them off the mounting pegs.
- Turn the logic board over and find the 14 solder connections

Step 6



- Apply some Flux on a desoldering wick
- Unsolder the connections using a soldering iron and the wick.
- Stay clear of the small SMD components that may surround the solder pads.

Step 7



- All contacts have been desoldered.
- Gently try to remove the analog stick, making sure that all points can easily be moved off the board
- If properly desoldered, the analog stick should clear the board without difficulty

Step 8



- Remove the analog stick
- Always make sure that the replacement will fit. Make sure it has the same contacts and dimensions.
- Place the new analog stick through the holes on the board. Make sure that it is flush with the board.

Step 9



- Apply flux to all contacts before soldering. I use flux even though my solder contains it as well.
- Apply solder to all the 14 contacts. Make sure that there is a good bond between the contacts of the analog stick and the solder pads on the board.
- Here all 14 contacts have been soldered. All that is left now is to wash of the flux with some isopropyl alcohol and to reassemble the controller.

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