



Xbox 360 Wireless Controller Left Analog Stick Replacement

Most common error with the controller is a drift or a loose analog stick (3D thumbstick). This will show how to repair the left side.

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INTRODUCTION

Straight forward replacement of the analog joystick on the controller. To much COD Black Ops can leave it feeling loose and can cause a drift. 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 Tool](#) (1)
- [Soldering Workstation](#) (1)

PARTS:

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

Step 1 — Left Analog Stick



- The left stick is the most common one to go bad.
- 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.

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



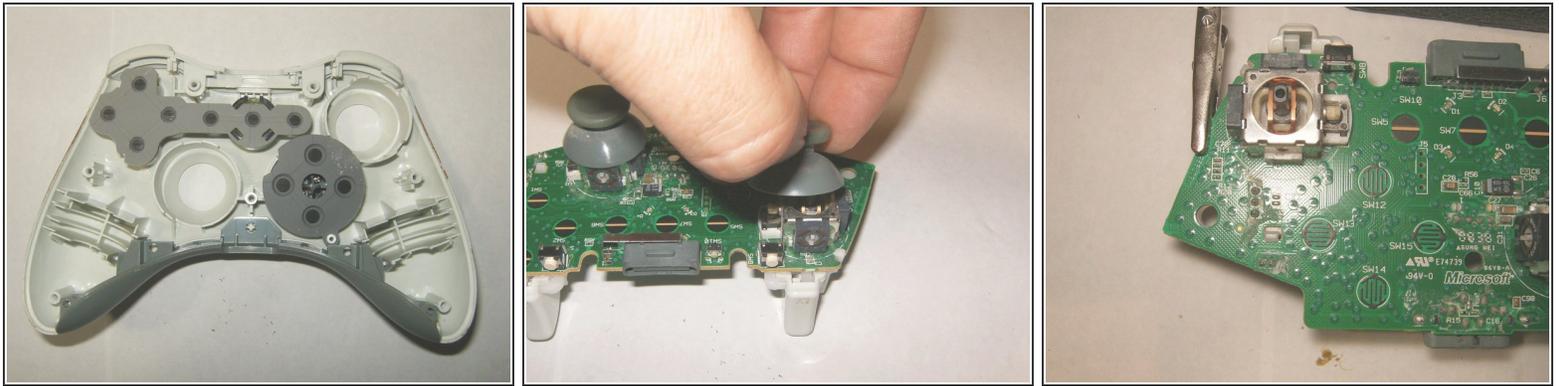
- Tilt the bottom case slightly toward the trigger buttons to slide it off the top case
- Here is a view of the inside of the controller. Note the vibration motors having different counter weights.
- Remove the connector from the left motor (controller is positioned upside down, left controller will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

Step 4



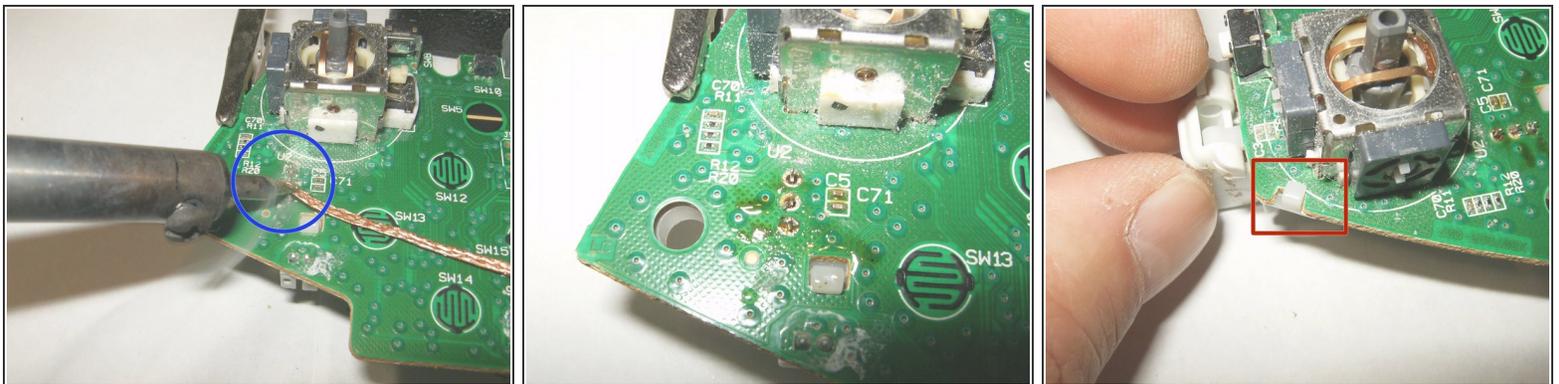
- Remove the connector from the right motor
- Both motors are disconnected. Notice position of the motors inside the case for re-assembly.
- Remove logic board

Step 5



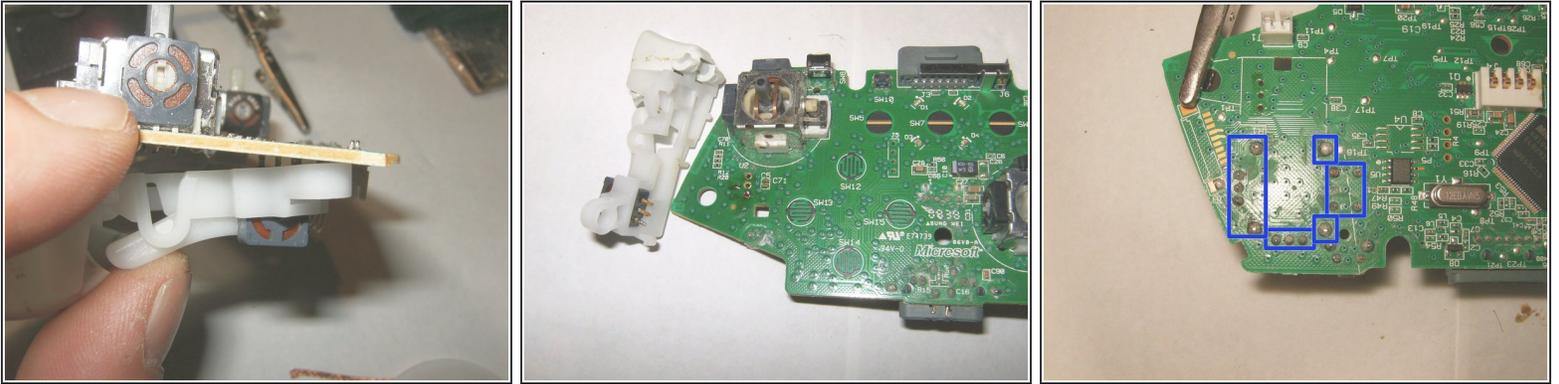
- Notice placement of rubber membranes on the front case for reassembly.
- To remove the covers of the analogs sticks, simply pull them from the mounting pegs.
- View of the left analog stick to be removed.

Step 6



- To remove the left analog stick, the left trigger button will have to be removed first. Desolder the three solder points. Use desoldering wick and some flux to remove the solder.
- Left trigger points unsoldered.
- There are 2 snaps holding the left trigger piece in place, remove those. It may take a bit of force, but simply push the snap over and down.

Step 7



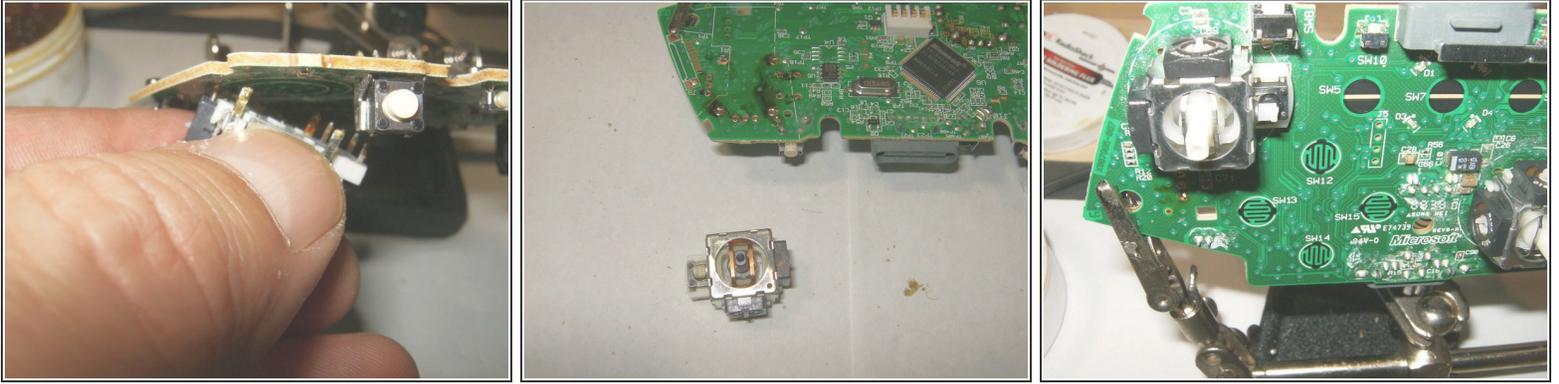
- When removing the left trigger, make sure that the points are unsoldered properly, gently pull the trigger downward.
- Left trigger removed.
- With the left trigger removed, simply turn the logic board over and find the 14 solder connections

Step 8



- Use a desoldering wick and some flux to remove the solder.
- Ensure that no other components get either desoldered or otherwise heat damaged.
- Here, all points have been desoldered.

Step 9



- Pull off the 3D analog stick gently to ensure that all solder connections are unsoldered.
- Remove the analog stick
- Put the new 3D analog stick in place. Make sure that it is seated flush against the board.

Step 10



- Apply some flux to the solder points and the leg of the analog stick.
- Solder the connections in place.
- All points soldered back in place. The liquid black debris is flux. This can be removed by cleaning the board with some isopropyl alcohol after the soldering.

Step 11



- Here is the board with the new sticks and the left trigger button resoldered.

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