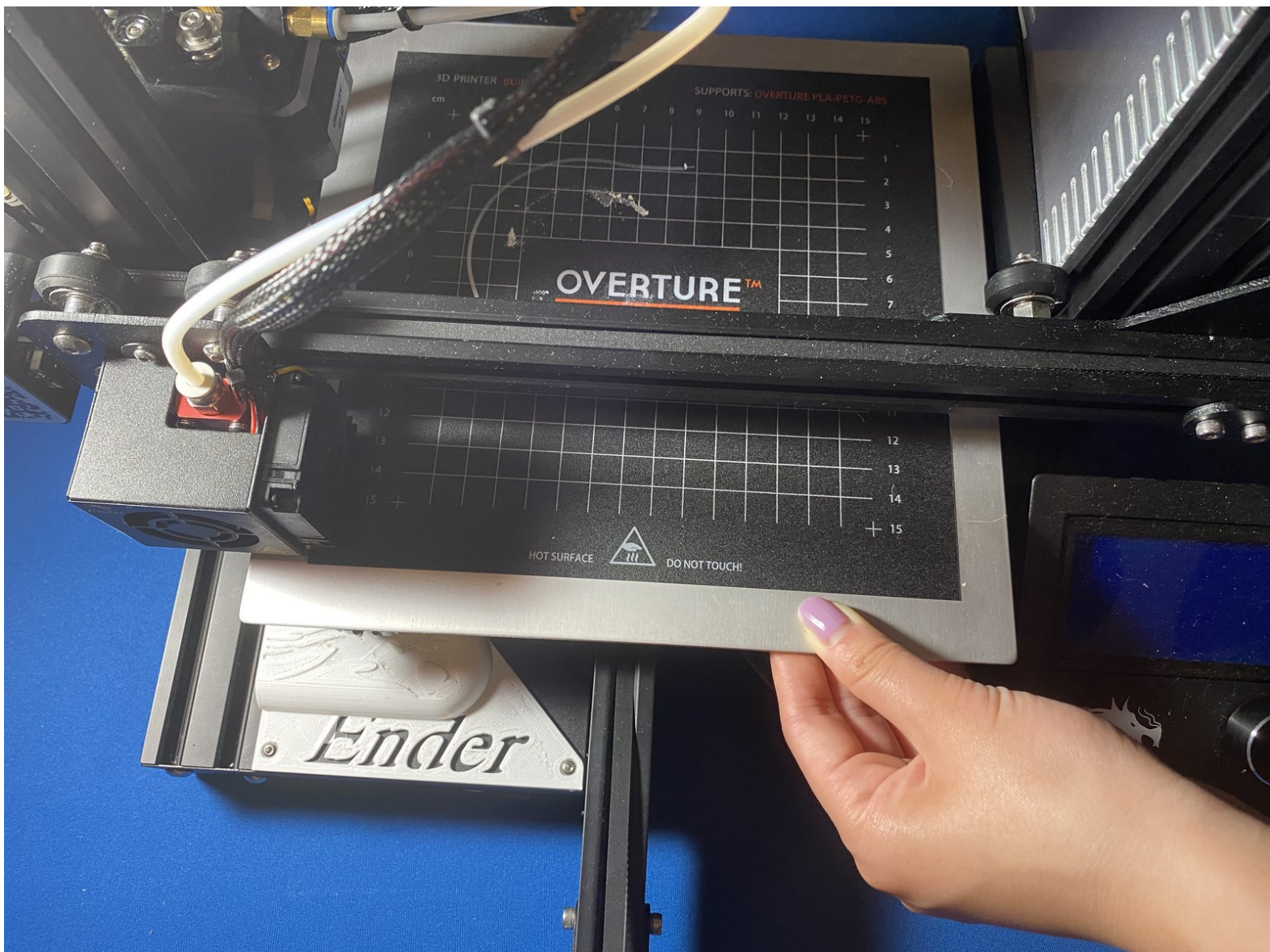# Creality Ender 3 Bracket Plate of Y-Axis Motor Replacement

How to take out the bent bracket plate and replace it with a new or repaired bracket plate of your Creality Ender 3.

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INTRODUCTION

This iFixit guide shows how to replace the bracket plate on the y-axis motor of your Creality Ender 3 3D printer. If the bracket is bent, it will be unaligned with the extrusion, which causes the y axis belt to be unaligned. This could ruin the 3D-printed item. This guide shows a step-by-step process for taking out the bent bracket and replace it with a new bracket or how to straighten the original bracket. This guide ensures that your Ender 3 will print correctly without malfunctions, due to a misaligned y-axis motor. This guide will also show how to straighten out a plate of metal at home (with specific tools). If these tools are not available, a y-axis motor bracket can easily be bought online and replaced.

🔧 TOOLS:

- Vice Grips (1)
- 8mm Allen Wrench (1)

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Step 1 — Bracket Plate of Y-Axis Motor
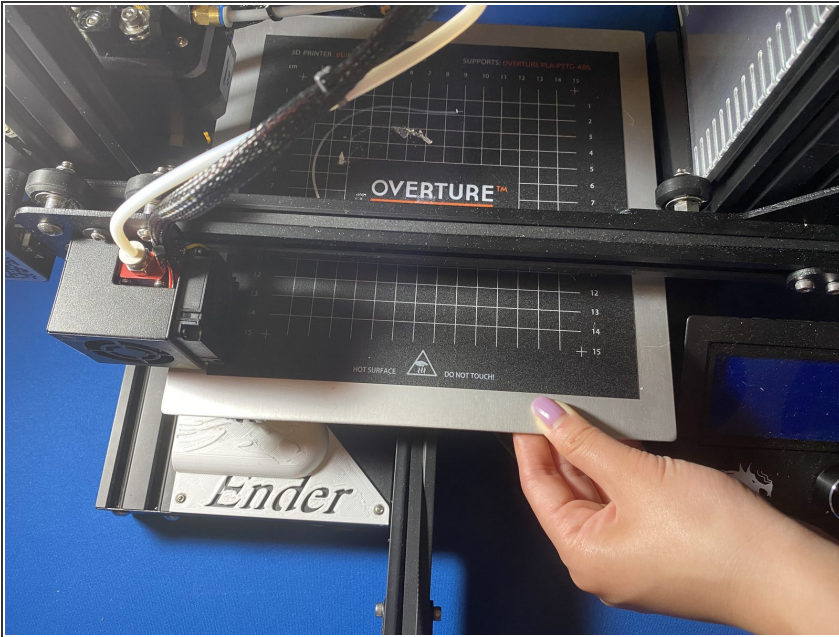
- Place the bed plate in the middle of your Ender 3. Do this manually by gently pushing it to the middle.

Step 2

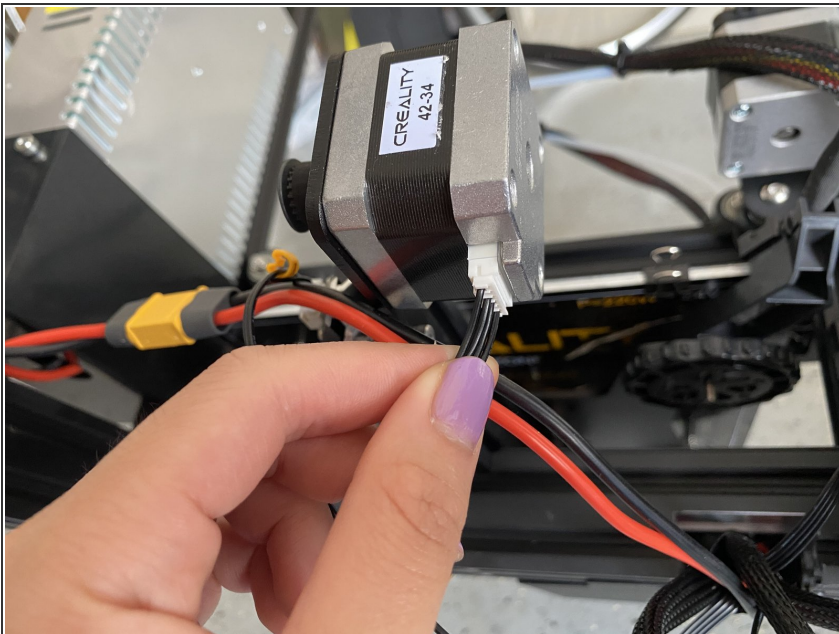- Or alternatively, place the bed in the center by turning your Ender 3 on.

Step 3

- Turn on the printer, and click the button to the screen shown in the photo.

- Rotate the button clockwise to "Prepare".

- Rotate the button clockwise to AutoHome. This should set your bedplate to 0 on both X & Y axes.
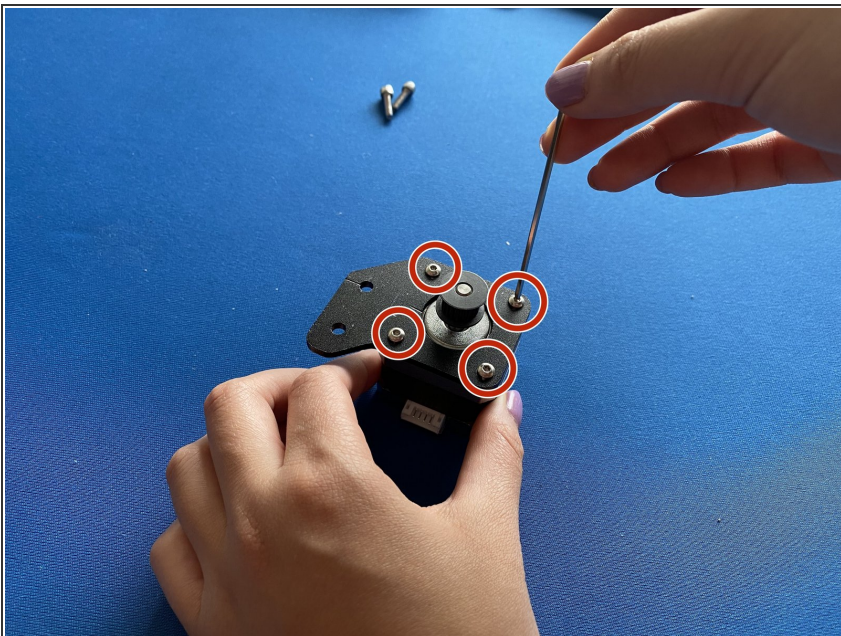
Step 4

- Unplug the wire that is connected to the Y motor.

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Step 5
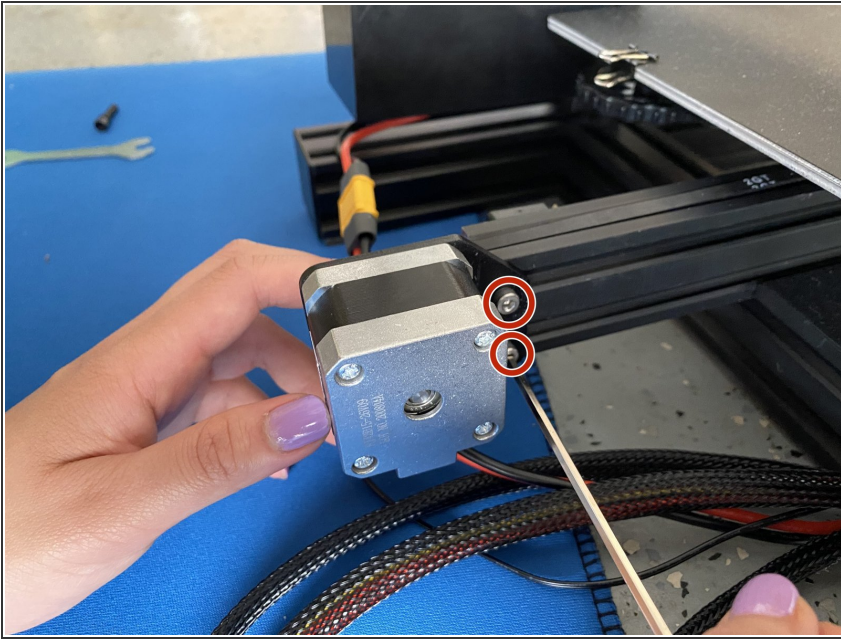
- Remove the two M4*20 screws from the back end of the Y-axis bar using an 8 mm Allen Wrench. The side of the display should be facing you.

Step 6

- Remove the four M3*6 screws that are attaching the motor to the Y-axis motor using an 8 mm Allen Wrench.

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Step 7

- Buy a new bracket with the same brand (depending on the severity of the bend of the bracket) or straighten the metal on your own.

Step 8

- If you choose to fix it on your own, slip the bracket in between a workshop bench clamp. Apply enough pressure between two thick blocks of metal to straighten it.

- Use vise-grips to aid in stabilizing the metal as you force the metal to straighten.

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Step 9
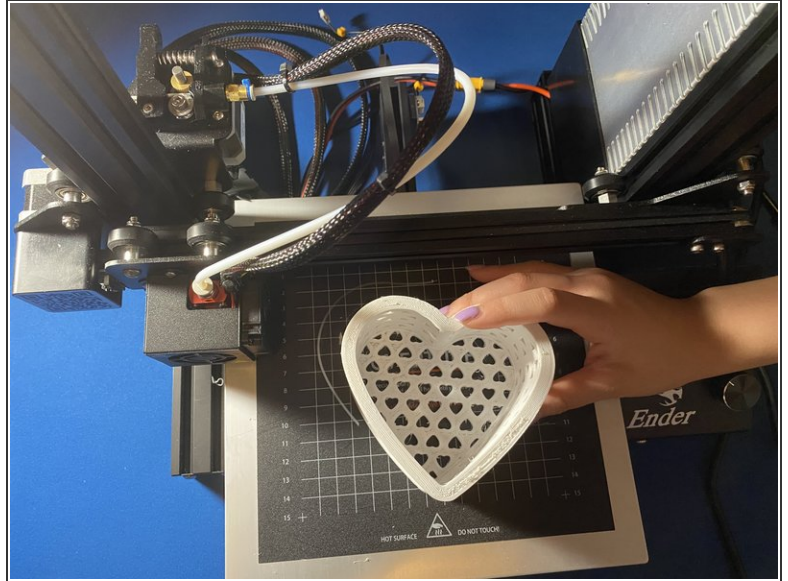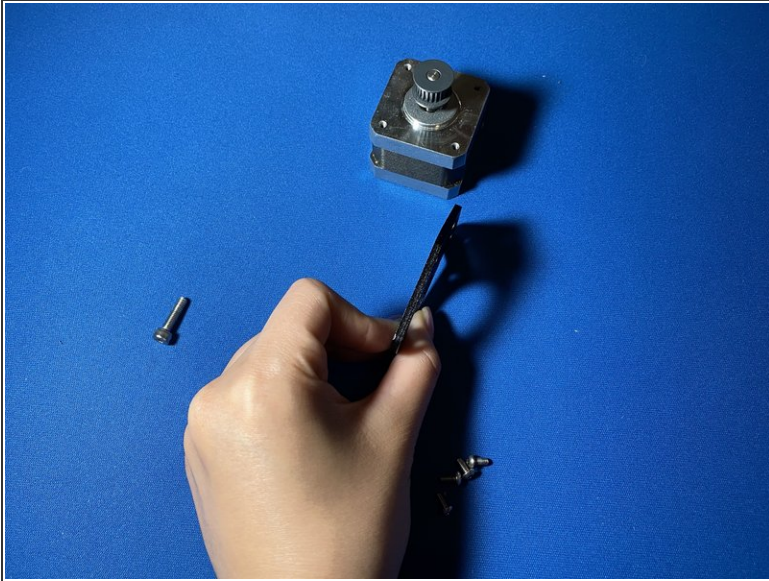
- Repeat, Steps 6-11 in reverse to put the bracet back on the Y motor and back on the Ender 3.

- Turn on Ender 3 to see if you did it correctly. Try to also print something too!

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