

# Z-Axis Coupler Tightening

SOURCE:

<https://support.zortrax.com/z-axis-coupler-tightening/>

**Table Of Contents**

Unplugging the Power Cable  
Changing the Printer's Position  
Unscrewing the Bottom Plate, part 1  
Turning the Printer  
Unscrewing the Bottom Plate, part 2  
Separating the Bottom Plate  
Providing Better Access to the Z-Axis Coupler  
Z-Axis Coupler Screws Tightening, part 1  
Z-Axis Coupler Screws Tightening, part 2  
Rearranging the Cables  
Bottom Plate Installation  
Securing the Bottom Plate, part 1  
Turning the Printer  
Securing the Bottom Plate, part 2  
Changing the Printer's Position  
Plugging the Power Cable

**The Z-axis coupler is responsible for the platform's movement along the Z axis. If the platform moves with difficulties and makes unusual noises, the screws on both sides of the Z-axis coupler need to be tightened. Follow the step from this manual to see how to gain access to the coupler and tighten the screws.**

If tightening the screws does not help, the Z-axis coupler or the Z-axis motor needs to be replaced. See the manuals: [Z-axis motor](#) and [Z-axis coupler](#).

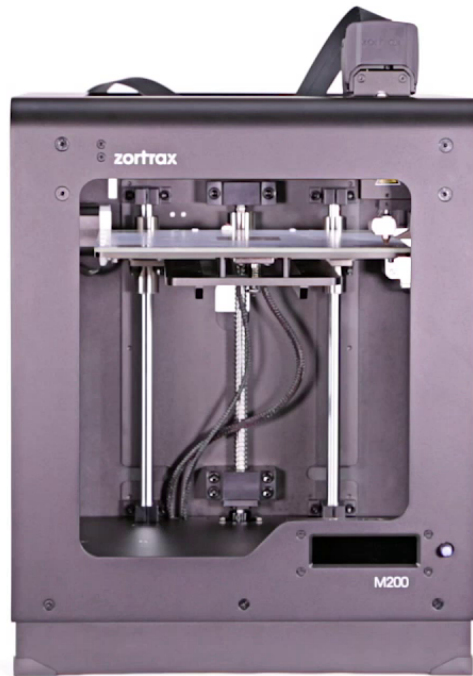
The following manual shows the M200 maintenance work. For the M300, these procedures are the same.

## Unplugging the Power Cable



Turn off the printer and unplug the power cable. Wait a few minutes for all the capacitors to discharge.

## Changing the Printer's Position



Grab the printer's housing and change the printer's position so that you can easily access the bottom plate.

## Unscrewing the Bottom Plate, part 1



Unscrew the screws that secure the bottom plate on one side of the housing. Use a 2.5mm Allen key.

## Turning the Printer



Turn the printer over.

## Unscrewing the Bottom Plate, part 2



Unscrew the screws that secure the bottom plate on the other side of the housing. Use the same key.

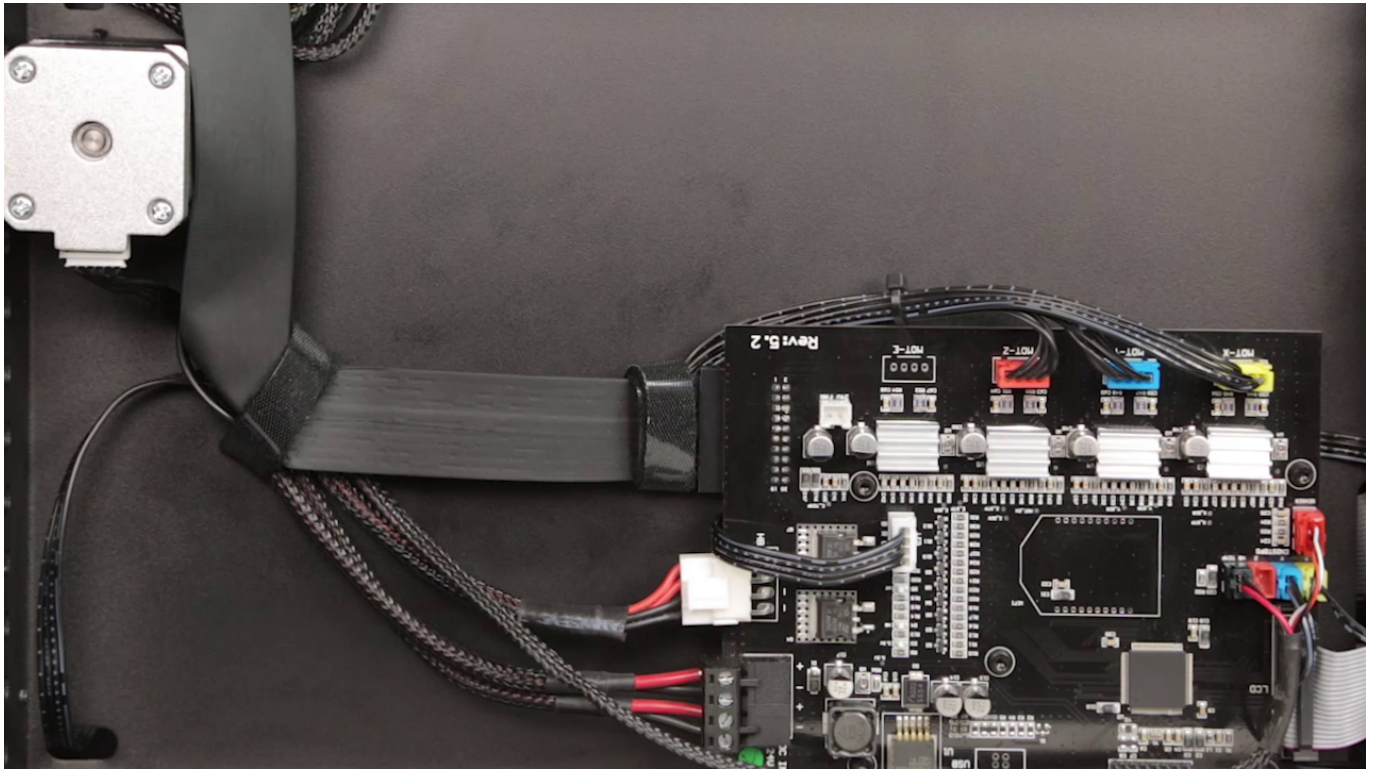


## Separating the Bottom Plate



Separate the bottom plate from the printer and unplug the bottom fan cable from the motherboard.

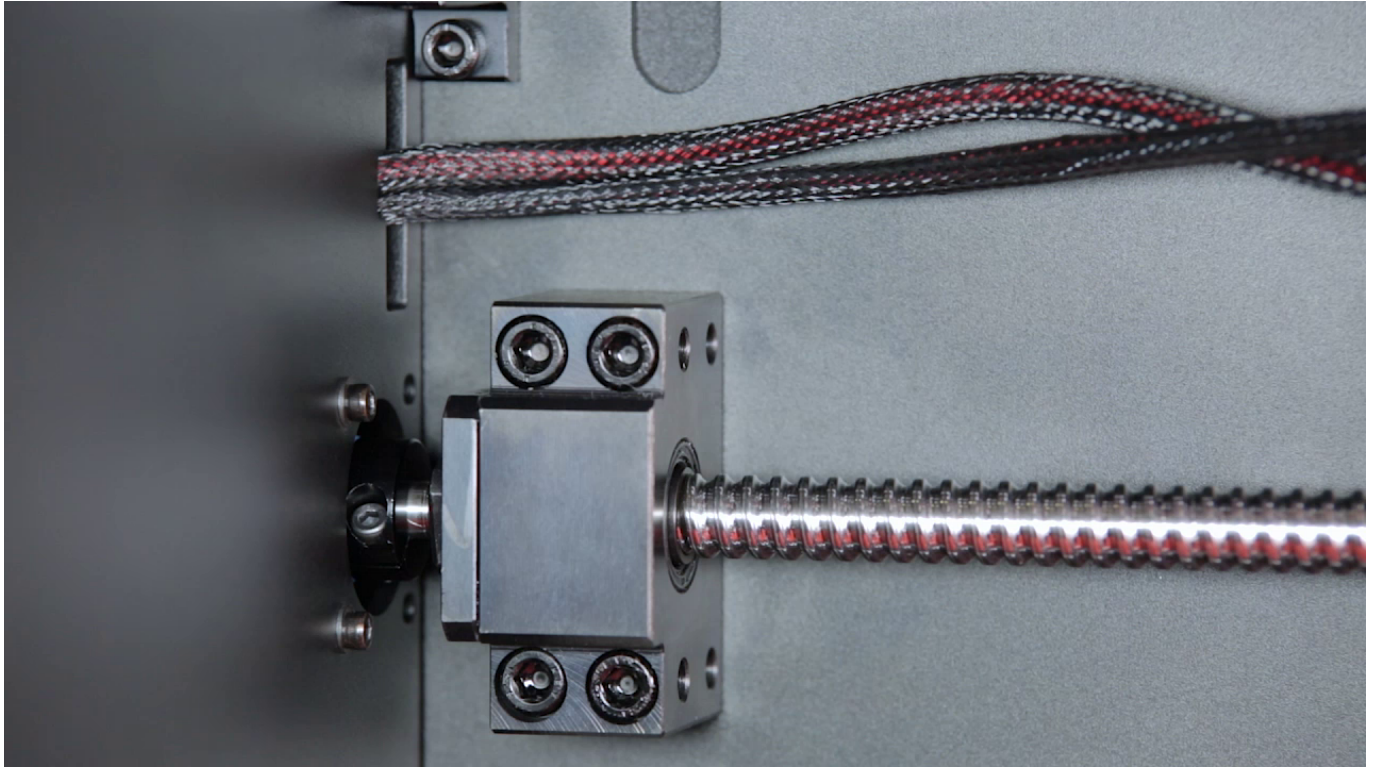
## Providing Better Access to the Z-Axis Coupler



Unfasten the two extruder cable straps and unplug the cable from the motherboard. Next, unfasten the third strap. Place the extruder cable between the power supply unit and the housing. Finally, grab the cables next to the motherboard and fasten the strap.

This step is not necessary to follow, however it is recommended so as to avoid the risk of damaging the cables and to get better access to the Z-Axis coupler.

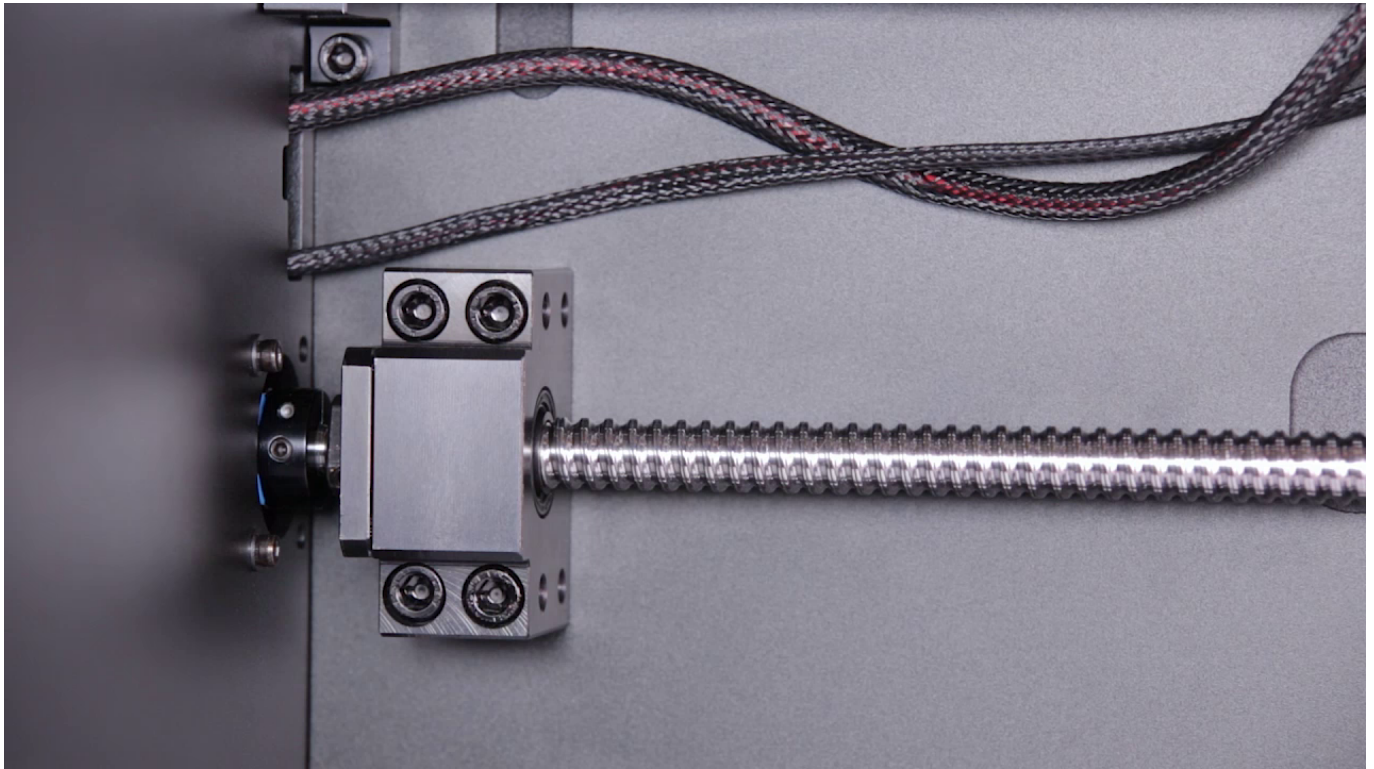
## Z-Axis Coupler Screws Tightening, part 1



Tighten the three Z-Axis coupler screws placed on the Z-Axis coupler side.

Turn the Z-Axis coupler to get better access to each screw on the coupler.

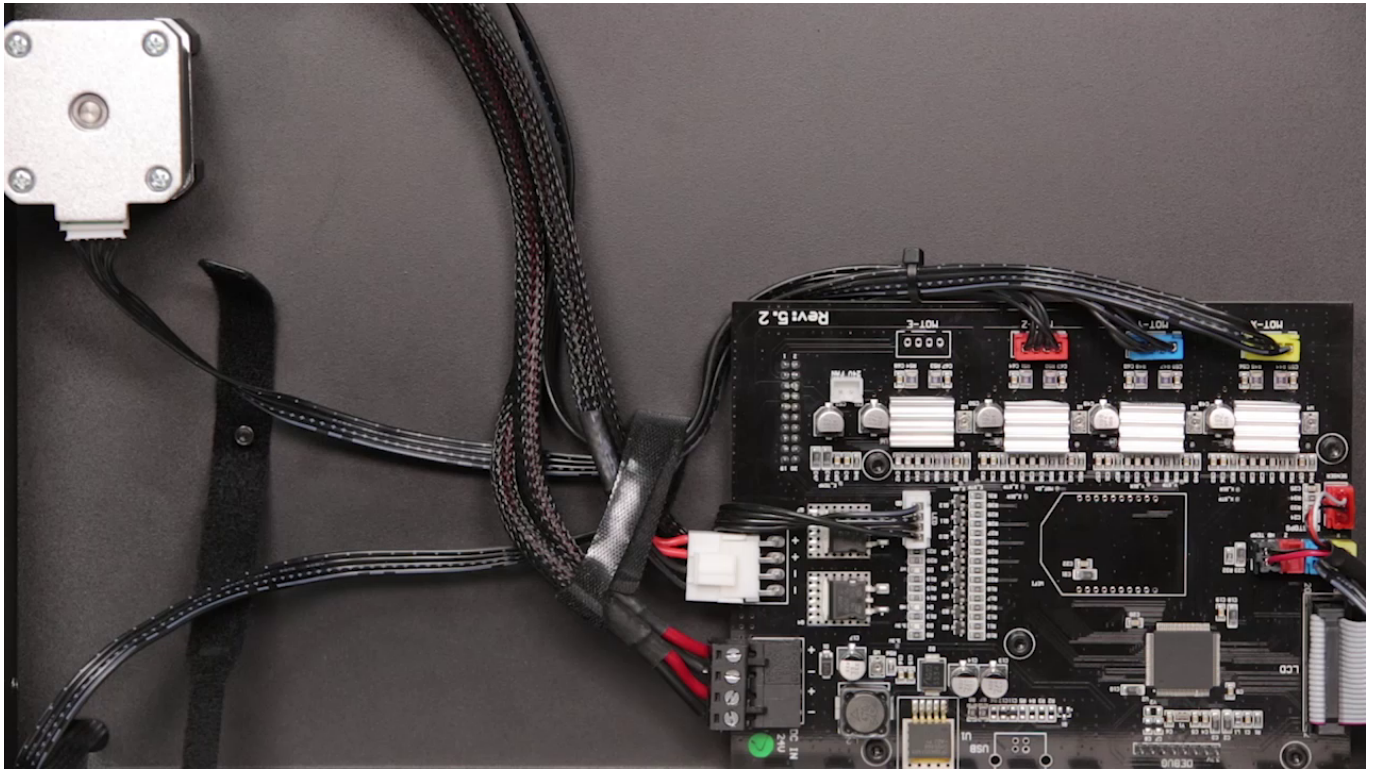
## Z-Axis Coupler Screws Tightening, part 2



Tighten the three Z-Axis coupler screws placed on the Z-Axis side.

Turn the Z-Axis coupler to get better access to each screw on the coupler.

## Rearranging the Cables



Rearrange the cables to their original position: unfasten the strap next to the motherboard. Secure the extruder cable with the first strap and plug it in. Fasten the remaining straps.

## Bottom Plate Installation



Plug the bottom fan cable into the motherboard and install the bottom plate.

## Securing the Bottom Plate, part 1



Secure the bottom plate on one side of the housing. Use a 2.5mm Allen key.

## Turning the Printer



Turn the printer over.



## Securing the Bottom Plate, part 2



Secure the bottom plate on the other side of the housing. Use the same key.

## Changing the Printer's Position



Grab the printer's housing and set the printer upright.

## Plugging the Power Cable



Plug the power cable in.