

How to Printrbot Simple

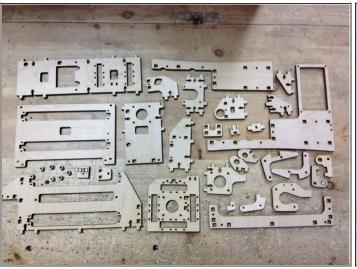
Written By: Brook Drumm



TOOLS:

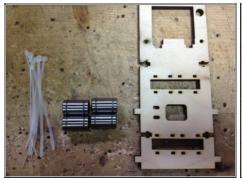
- Phillips Screwdriver (1)
- 8mm or 5/16" Wrench (1)
- 2.5mm Allen Wrench (1)
- 1.5mm Allen Wrench (1)
- Hammer or Rubber Mallet (1)
- Wood or Super Glue (1)

Step 1 — Printrbot Simple Instructions

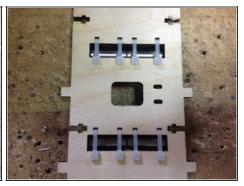




The wood kit for the Simple

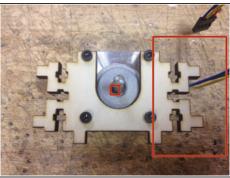


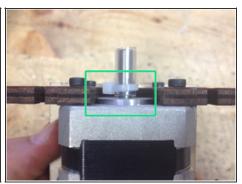




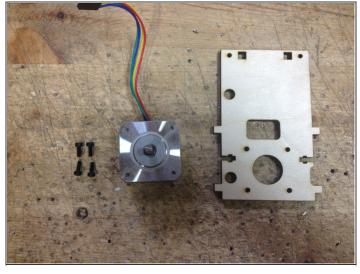
- Zip tie your bearings on the base plate bringing the zip tie up through the bottom of the plate.
- It does not matter which side the nub is on the bearing slot.
- 8 zip ties
- 4 LM8UU Bearings
- Tip place 8mm smooth rod through the bearings as you tighten the zip ties to ensure alignment of bearings.

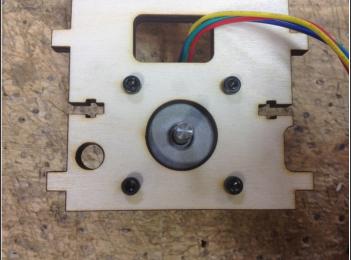




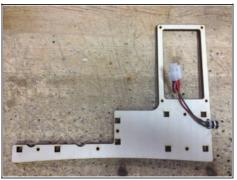


- X-axis motor installation
- 4 M3 10mm
- Choose whether you want to have the fishing line drive directly on the motor rod or if you
 want to use the vinyl tubing.
- If you want vinyl tubing place on the rod and zip tie at the base of the rod, green box.
- Make sure the wiring is coming off the side of the assembly as shown in the photo in the red box.





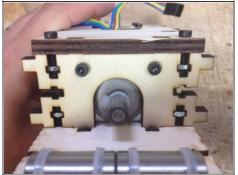
- Z-axis motor installation
- 4 M3 10mm
- Make sure z-axis rod hole is on the left of the motor as seen in photo #2.
- Face motor wiring toward the slot in the plate.







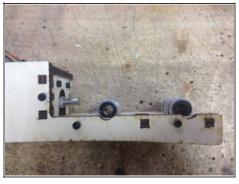
- Attach power adapter onto plate with zip tie.
- Zip tie nub is on opposite side of the power adapter.

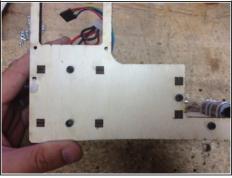


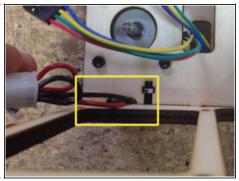




- Mount X-axis motor assembly and Z-axis motor assembly together
- 4 M3 16mm
- 4 M3 Hex Nuts



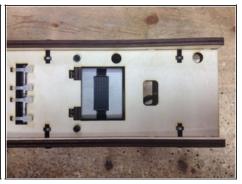




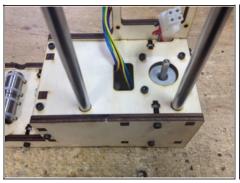
- Attach left side piece with M3 16mm screws.
- 5 M3 16mm screws
- 5 M3 Hex Nuts
- Make sure that the wiring for the power adapter is routed through the provided slot before securing with M3 screws.







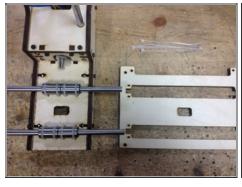
- Attach right side piece with M3 16mm screws.
- 5 M3 16mm screws
- 5 M3 Hex Nuts



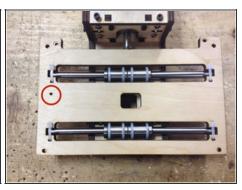




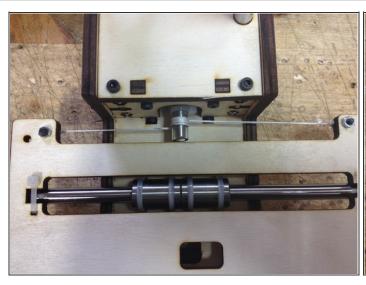
- Install the 10" smooth rods.
- Use hammer or rubber mallet to get smooth rods through the two wood plates.
- Make sure to provide support under the bottom plate so you don't blow out the bottom of the plate.

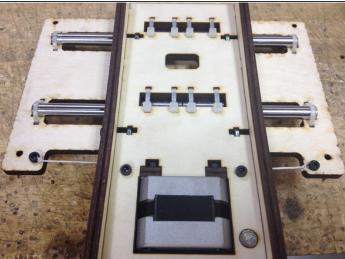






- 4 Zip ties
- 2 6.5" 8mm smooth rod
- Make sure small hole is on the left as you assemble the bed platform, red circle.





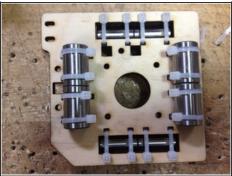
- Fishing line installation
- Line should come off the bottom of the motor rod for the x-axis.
- Three to four wraps on the motor rod.

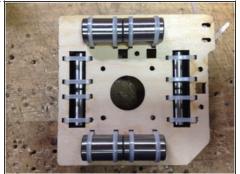




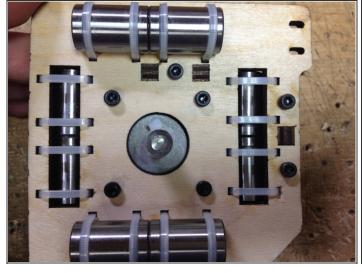
- 4 M3 20mm screws
- 4 M3 Hex Nuts
- 4 bed springs







- 8 LM8UU Bearings
- 16 Zip Ties
- Zip tie nubs should all be on the same side of the wood piece which is shown in photo #2.
- Tip place 8mm smooth rod through the bearings as you tighten the zip ties to ensure alignment of bearings.

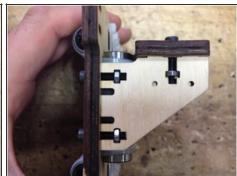




- Y-axis motor installation
- 4 M3 10mm







- 4 M3 16mm screws
- 4 M3 Hex Nuts







- 1 M3 16mm Screw
- 1 M3 Hex Nut







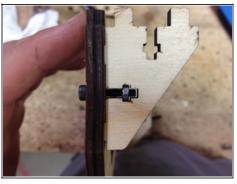
- 3 M3 16mm Screws
- 3 M3 Hex Nuts







- 3 M3 16mm Screws
- 3 M3 Hex Nuts







- 1 M3 16mm Screw
- 1 M3 Hex Nut







- 4 M3 16mm Screws
- 4 M3 Hex Nuts





- Vinyl Tubing
- 2 Zip Ties

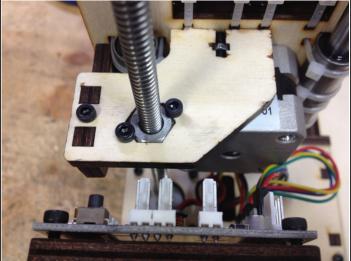




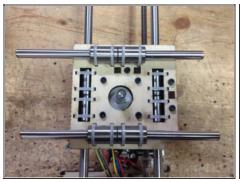


4 - Zip Ties





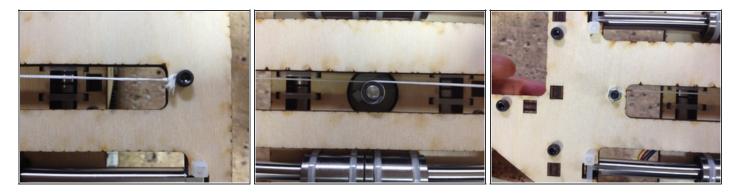
• 2 - M3 10mm Screws







- 2 6.5" 8mm Smooth Rod
- Insert rod into bearings for Y-axis
- Secure the wood piece to smooth rods with zip ties.



- 2 M3 10mm Screws
- 2 M3 Hex Nuts
- Fishing Line
- Wrap around the Y-axis motor rod three to four times.
- Fishing line will come off of the top of the motor rod for the Y-axis as shown in photo #2.



- Place pieces on top of each other in order as shown in photos.
- This assembly continues in next step.

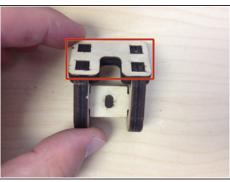


- 3 M3 30mm Screws
- M3 30mm screws fasten into the extruder motor.



- 1 M5 16mm Screw
- 1 625ZZ Bearing
- Wood or super glue the wooden joints together, green boxes.







- Wood or super glue
- Glue the four slots in the red box.
- DO NOT glue the circle holes on the side of the assembly. You will want the piece inside the circles to rotate.

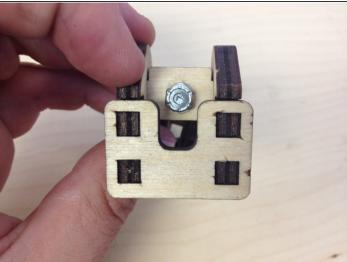






- 1 2.5" 6-32 Screw
- 1 Extruder Spring
- 1 6-32 Hex Nut (Locking)





• A few more photos of the previous assembly.

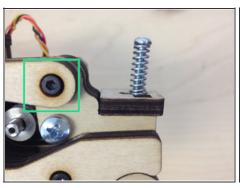
Step 32







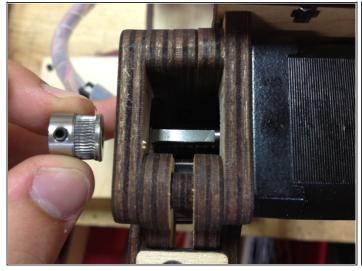
• Three small wooden bushings







- 1 M3 30mm Screw
- Secure previous assembly into extruder with M3 30mm screw through the wooden bushings, green box.





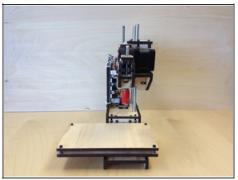
- 1 Driver Gear
- Use a 1/16" Allen Wrench to tighten the set screw onto the motor rod.
- Make sure that you tighten the set screw onto the flattened portion of the motor rod.
- Align the teeth of the gear with the 625ZZ Bearing.

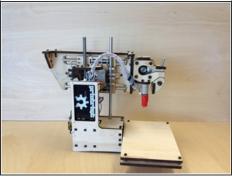


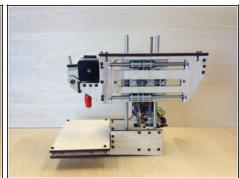
- 1 Hot end
- 2 M3 20mm Screws
- First set the hot end inside the circular slot.
- Once placed inside slot secure with two M3 20mm screws.



- Glue or Super Glue
- Make sure to glue the two slots, yellow box.







- Simple build finished.
- Congratulations!

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