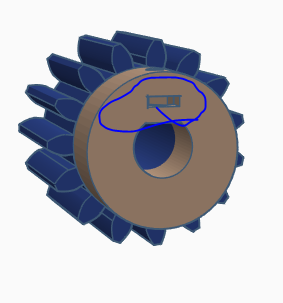
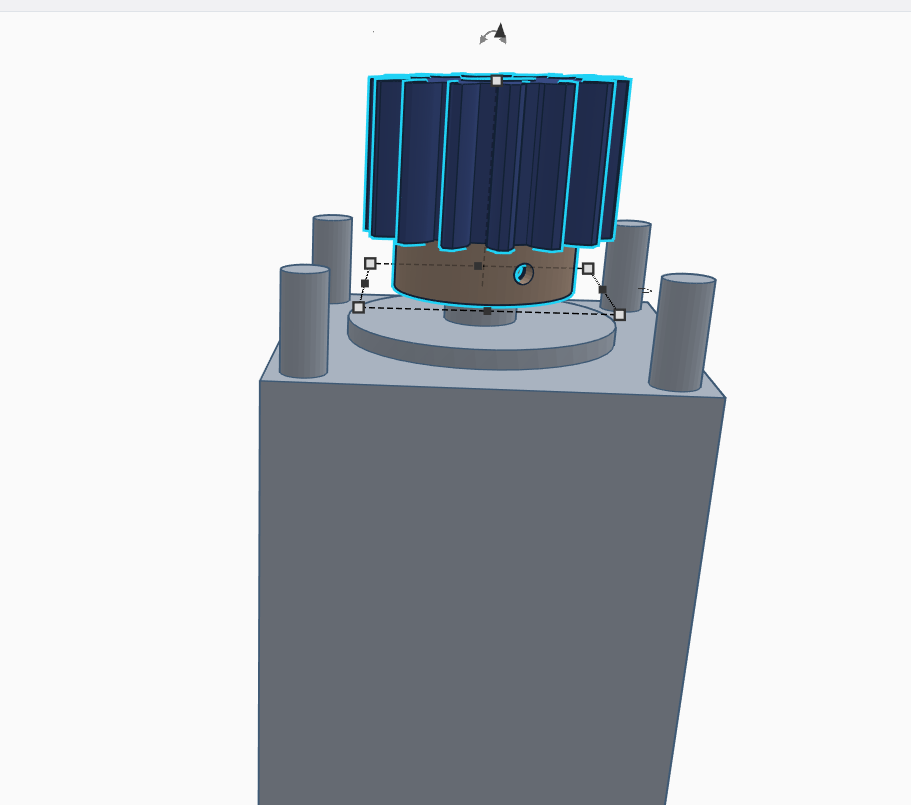
Assembly of 3D-Printed Parts

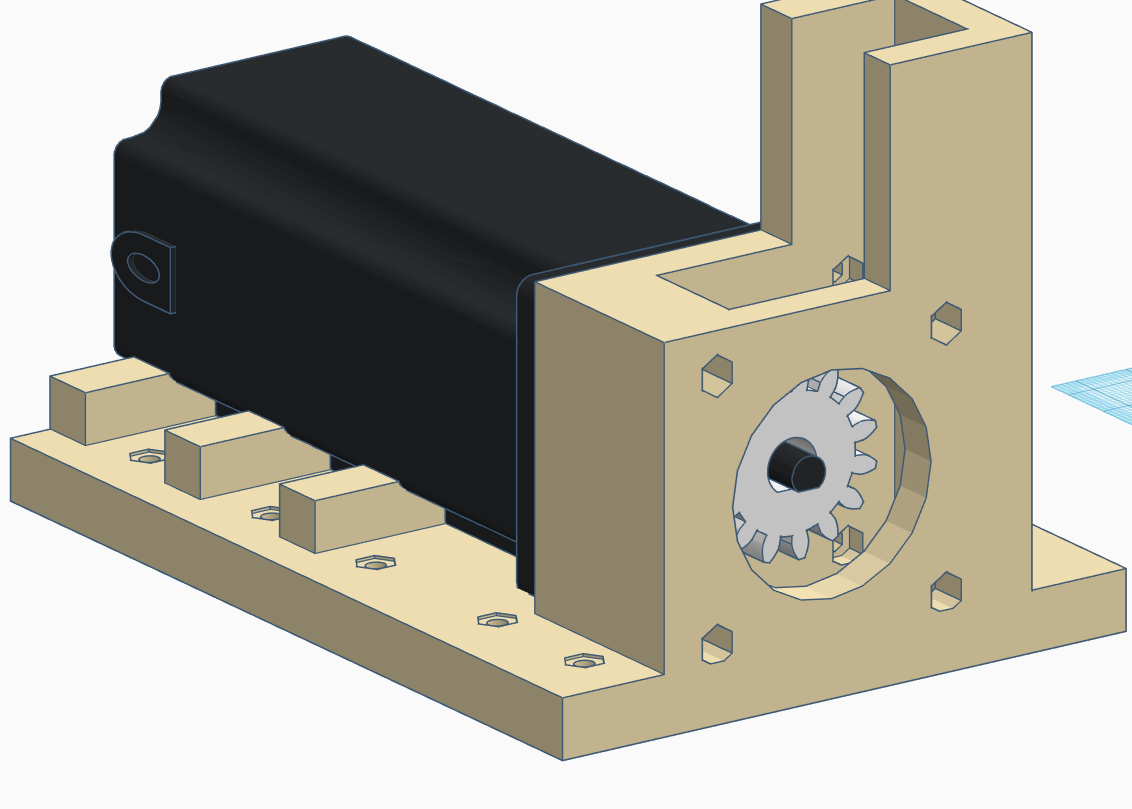
1. Insert an M3 not in the circled slot on the gear and fasten an M3 bolt gently into it so that it won’t move.



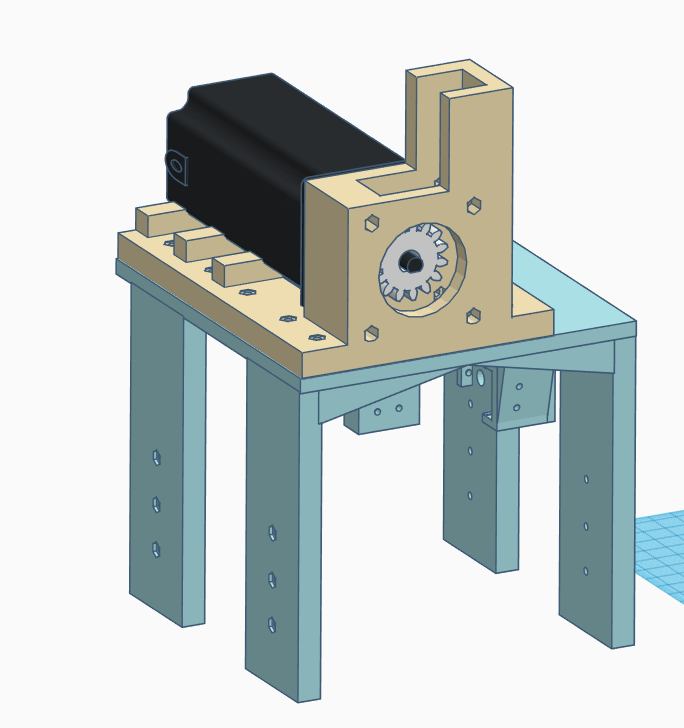
1. Insert the gear over the shaft of the motor. This has to be a tight fit. You may need to use a heat gun, blow drier, or a press.



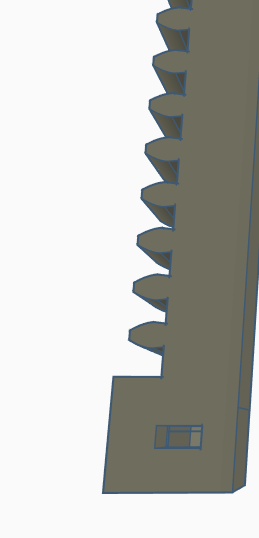
1. Use m4 nuts and bolts for the stepper motor and the motor cage.



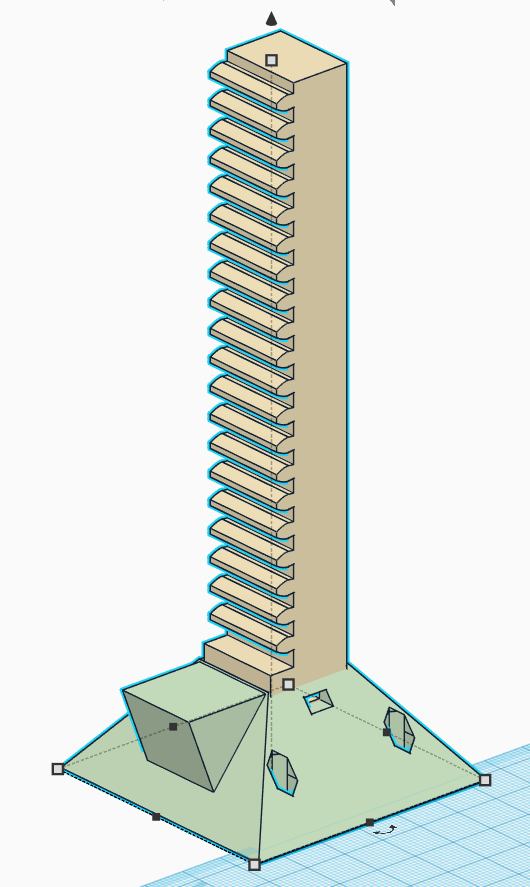
1. Use m2 nuts and bolts to secure the motor cage to the bridge.

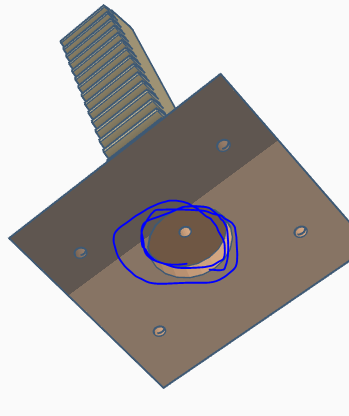


1. Insert an M3 nut in to the rack

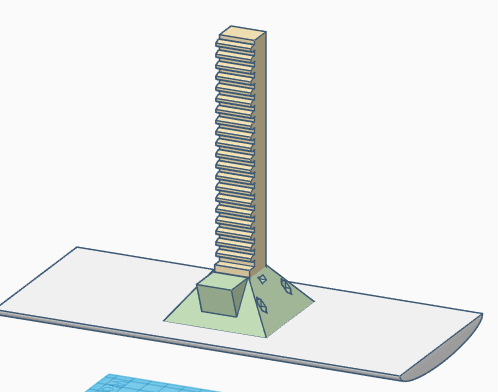


1. Place the rack into the rack base and insert an m3 bolt into the slot.

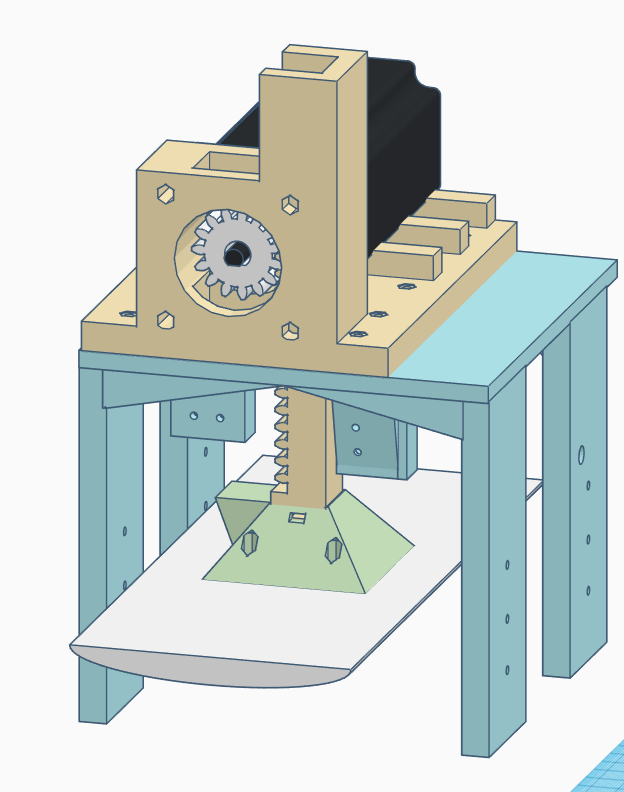




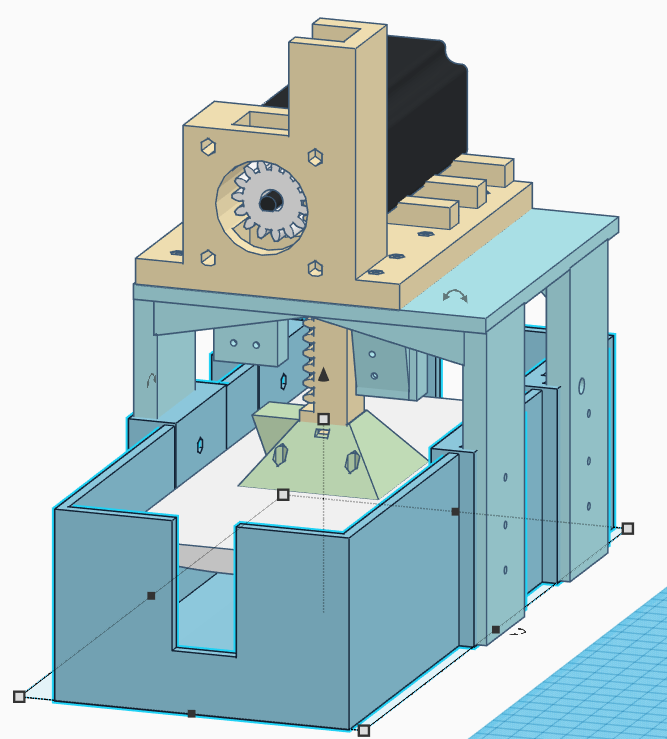
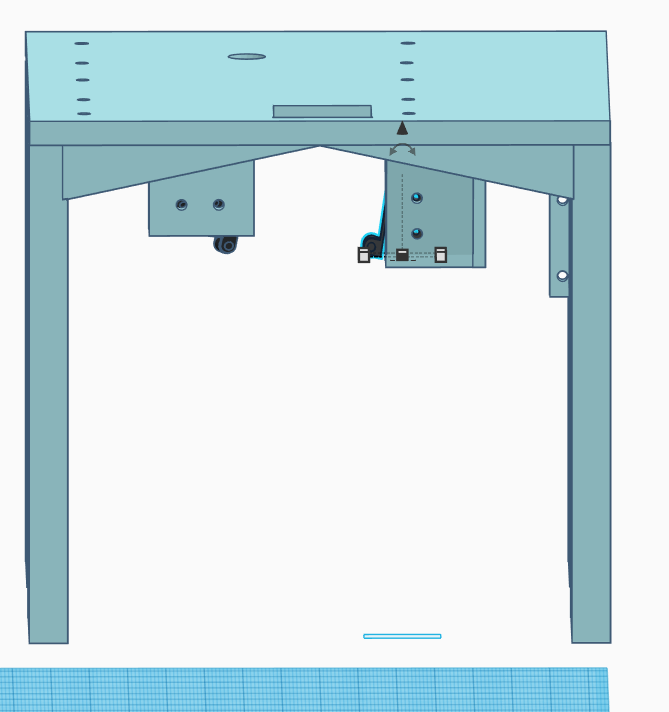
1. Use M3 nuts and bolts to secure the rack base to the plate.



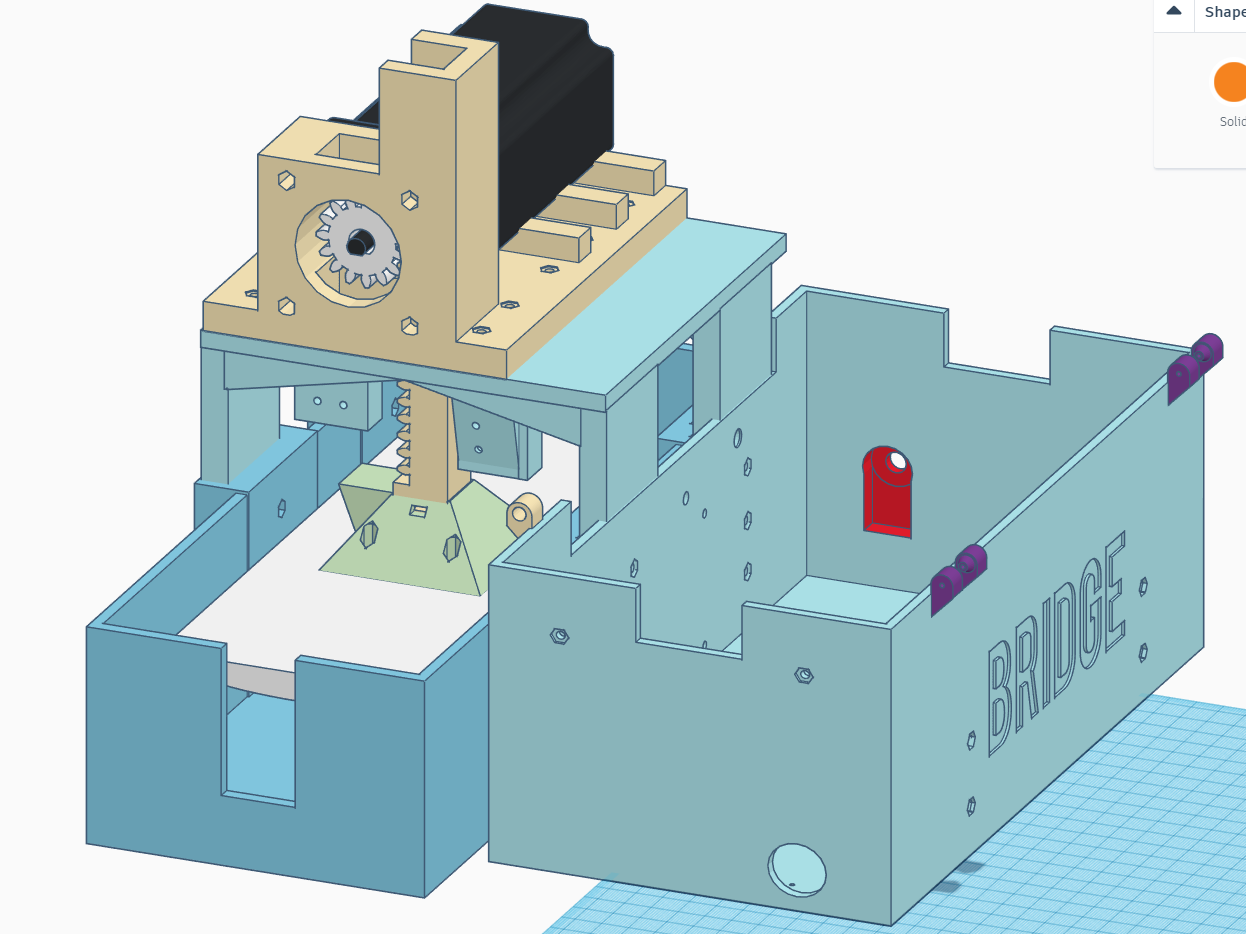
1. Insert the rack through the motor cage



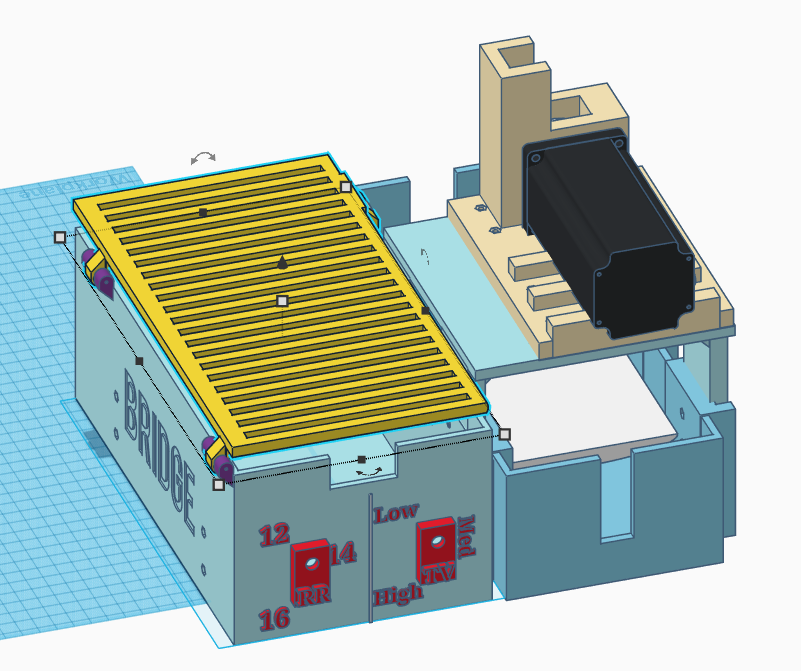
1. Use M3 nuts and bolts to secure the bridge to the vent Box on the side facing the rack teeth.
   * Use M2 nuts and bolts to secure the two limit switches to the bottom of the bridge

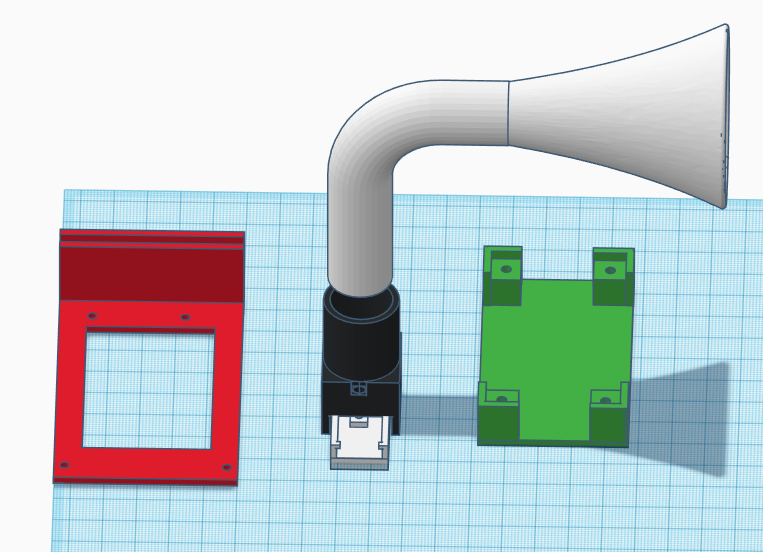
1. Use M3 nuts and bolts to secure the bridge and vent Box to the electronics box on the side opposite to the rack teeth.



1. Insert the Lid over the electronics box.



1. Secure the Arduino (red), Arduino Sound Module (white) and the optional Arduino Buck (green) Converter on the specified Blocks.



1. Insert the above items as well as the Power Switch, RR and TV Adjustment Knobs, Stepper Motor Driver Universal Power Supply, and LED indicators in the electronics box.