

STANDARD_SERVO_ASSEMBLY.f3z contains Fusion models of

- **STANDARD_SERVO HOLDER.stl**
- **SHAFT HOLDER.stl**
- **120_MM_GEAR.stl**

And shows how a standard servo and pusher shaft are attached to the frame between two top bars

STANDARD_SERVO_ASSEMBLY_BACK_ROW.f3z contains Fusion models of

- **STANDARD_SERVO HOLDER_BACK_ROW.stl**
- **SHAFT HOLDER.stl**
- **120_MM_GEAR.stl**

And shows how a standard servo and pusher shaft are attached to the frame between one top bar and one side bar (as occurs for one row of design)

MICRO_SERVO_ASSEMBLY.f3z contains Fusion model of

- **MICRO_SERVO_AND_SHAFT HOLDER.stl**
- **20_MM_GEAR.stl**

And shows how a micro (continuous rotation) servo and pusher shaft are attached to the top bars of the frame

6_INCH_SHAFT.f3z contains Fusion models of

- **6_INCH_SHAFT.stl**: 6" shaft is actually length 6" + length of shaft holder so at full extension the shaft can extend 6" past the top of the shaft holder
- **SHAFT_CAP.stl**: 6" shaft press fits into the cap, and should be secured with super glue

RASPI_HOUSING.f3z contains a Fusion model of

- **RASPI_HOUSING.stl**: housing with holes for RaspberryPi to screw into, and for the housing to attach to the bottom of the frame. Slots provide places to channel wires from servos to the Raspi and affix with zip ties

MOTOR_FRAME_ASSEMBLY.f3z

Shows the assembly of frame pieces with attached standard servo holders and shaft holders. Can be used for reference measurements when assembling. Micro servo and shaft holders can similarly be attached at the same measurements on the top bars as the shaft holders shown in this file

FOOT_CAP.f3d contains a Fusion model of

- **FOOT_CAP.stl**: a protective cap for the feet of the frame so they don't scratch the surface it rests on. Can be printed in TPU to be less likely to scratch.

CORNER_CAP.f3d contains a Fusion model of

- **CORNER_CAP.stl**: a protective cap for the sharp corners of the frame. Will need to be adjusted depending on how tight your tolerances are for the physical build with the silicone top

120MM_GEAR.f3z contains a Fusion model of

- **120_MM_GEAR.stl**: larger gear for standard servo assembly. Can be modified to incorporate servo horns.

20_MM_GEAR.f3d contains a Fusion model of

- **20_MM_GEAR.stl**: smaller gear for continuous rotation servo assembly

30INCH_TOP_MOLD_WITH_LIP.f3z contains Fusion models of silicone top layer and

- **30INCH_TOP_MOLD_FOR_PRINT (folder)**: all the pieces of the silicone mold, broken up to fit into a Bambu 3D printer. Must be assembled, glued, and made watertight before silicone can be poured