# Matrix+ Controller

## 3D Parts
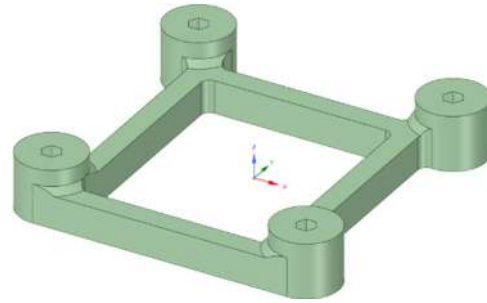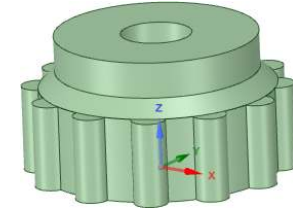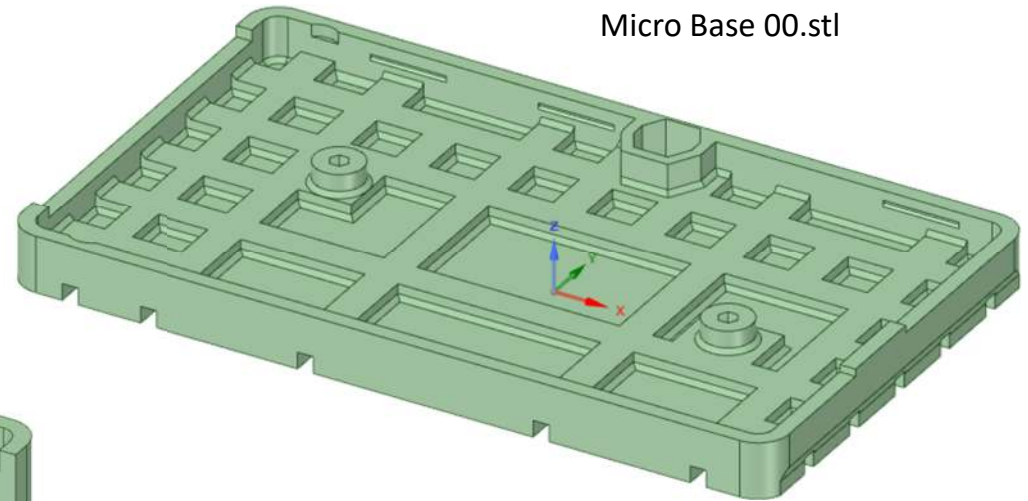
DS Mechanical
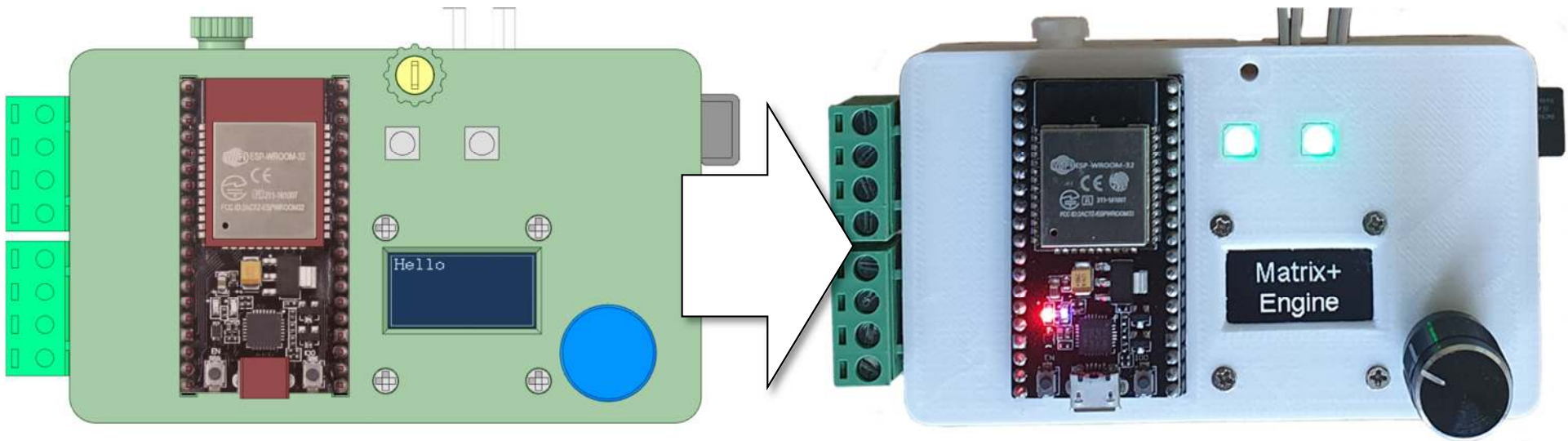
# Controller Parts
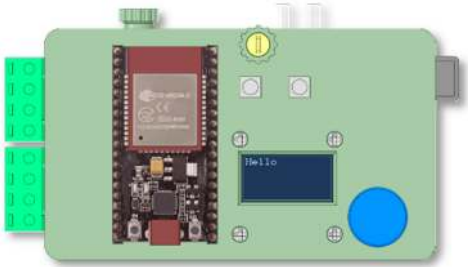
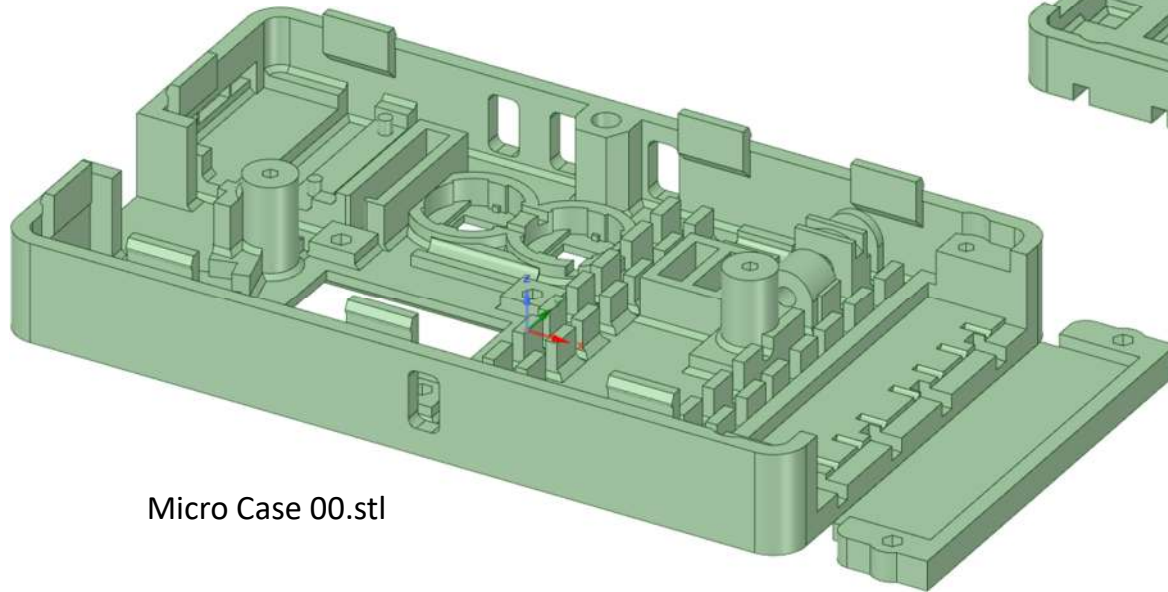This should help you identify all of the parts needed to build the robot.

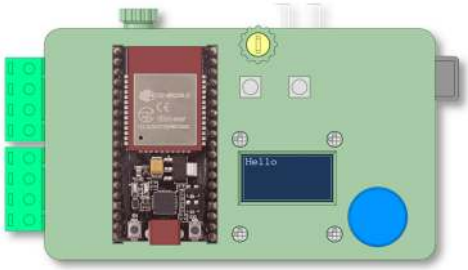Display Strap 00.stl
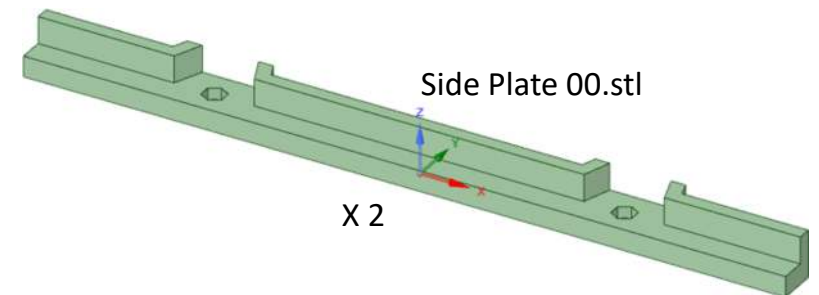
Micro Nut 00.stl
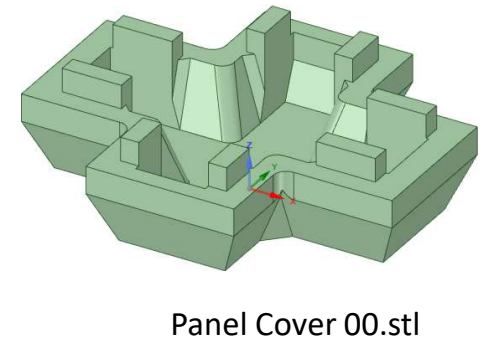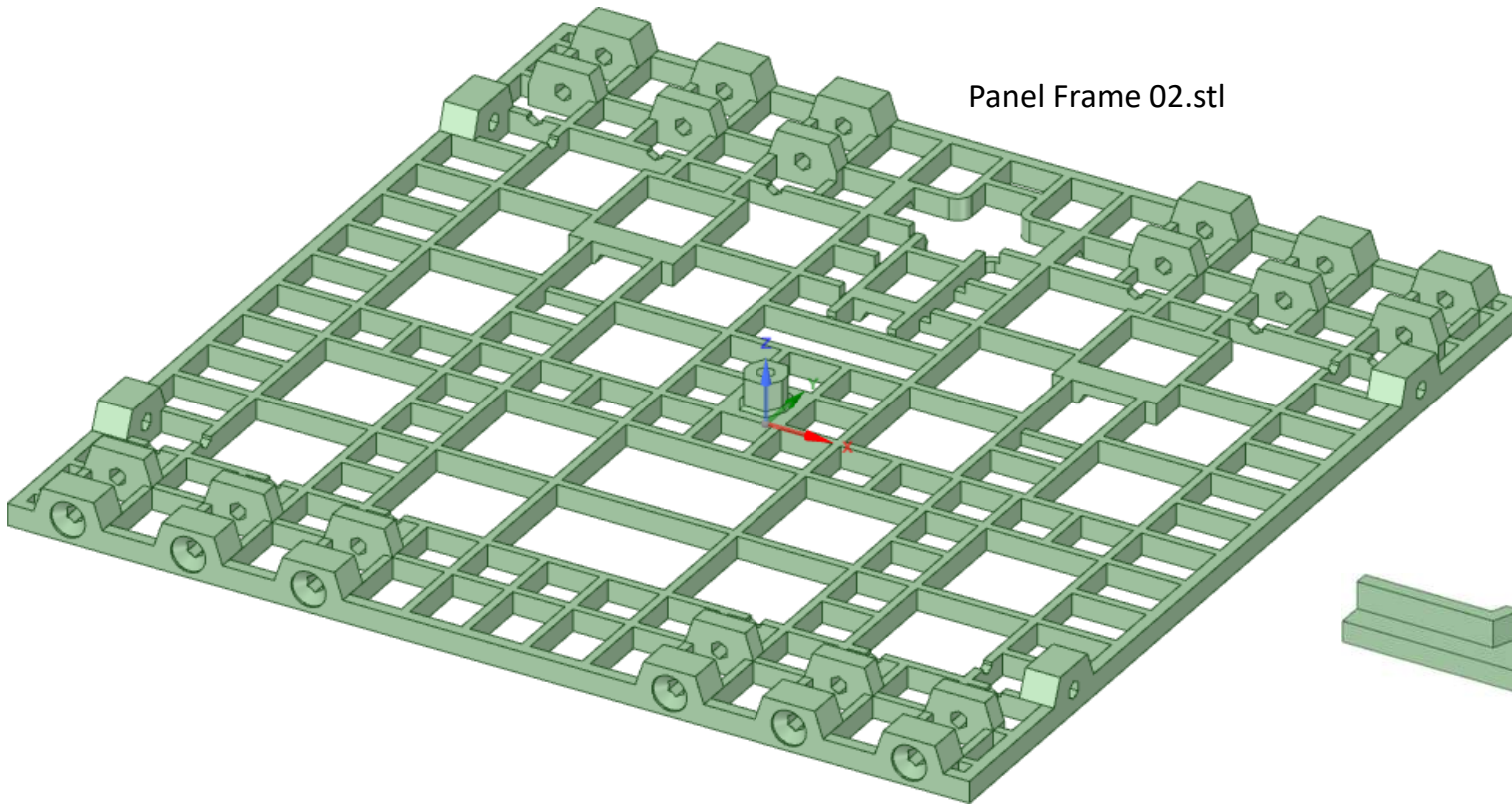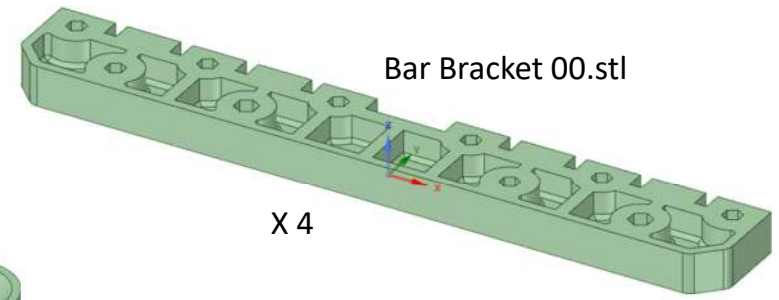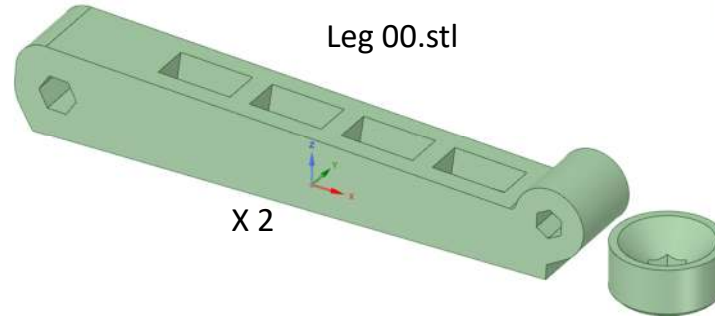
Micro Base 00.stl

Micro Case 00.stl

Note: The connector strap is printed along with the Micro Case cover.

Models are not to scale

# Panel Parts

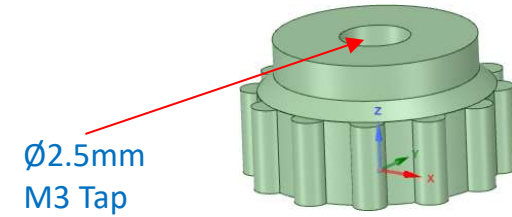This should help you identify all of the parts needed to build the robot.

Leg 00.stl

X 2

Bar Bracket 00.stl

X 4

Panel Frame 02.stl

Panel Cover 00.stl

Side Plate 00.stl

X 2

Models are not to scale

# Drill Sizes



This should help you identify all of the pilot drill and clearance hole sizes.

Ø1.5mm

Display Strap 00.stl

Ø2.5mm
M3 Tap

Micro Nut 00.stl

Micro Base 00.stl

Ø1.5mm

Ø3.0mm

Ø1.5mm

Ø2.0mm

Micro Case 00.stl

Ø2.0mm

Ø2.0mm

Ø2.5mm
M3 Tap

Ø2.0mm
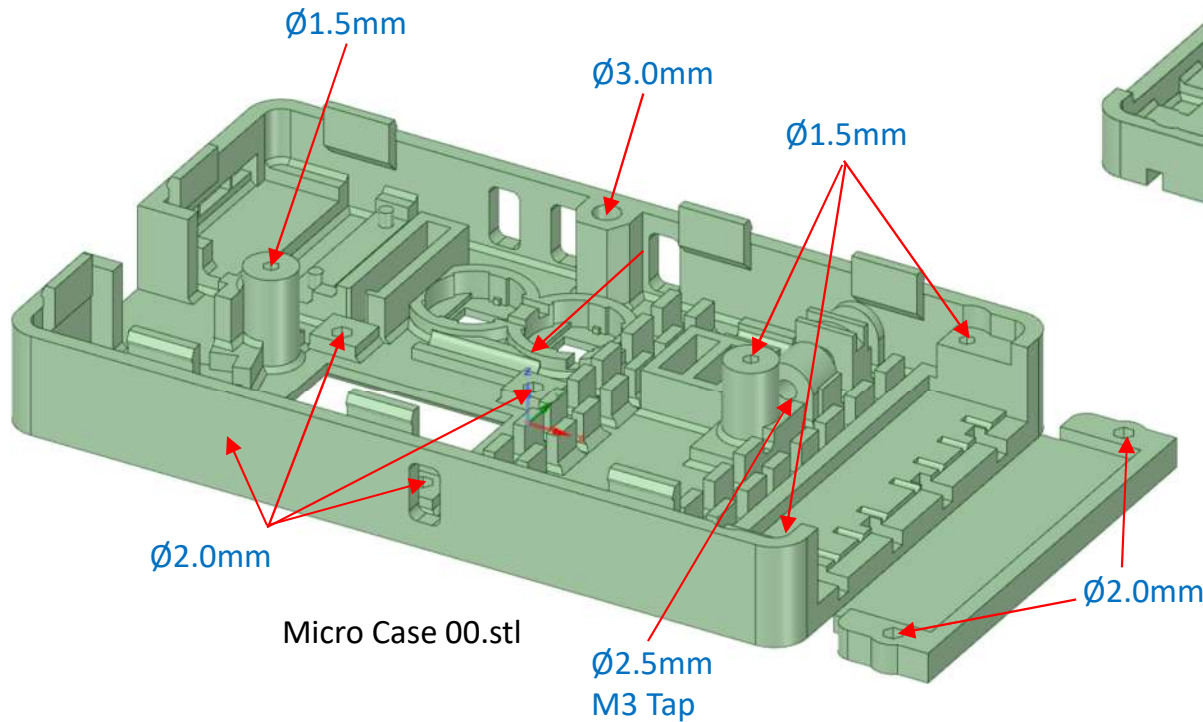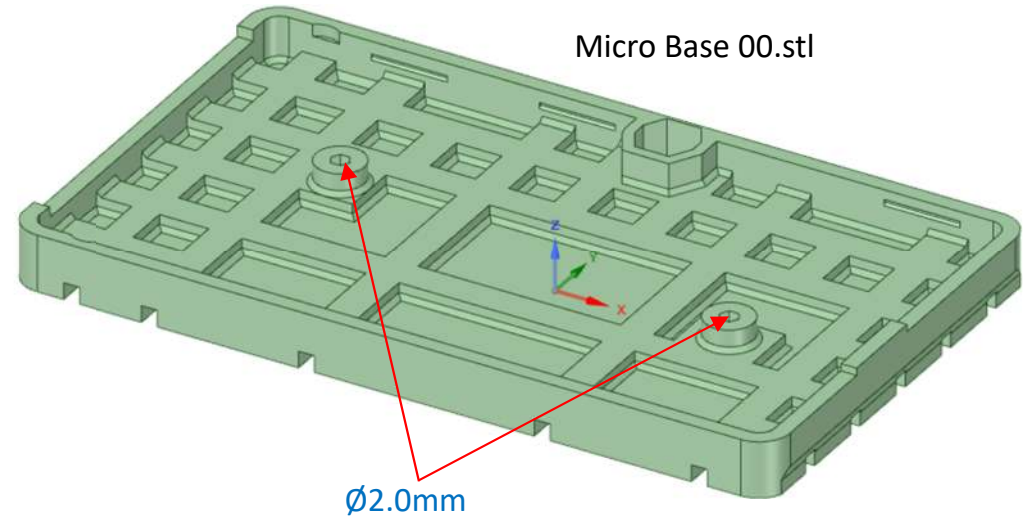
Note: 3D printed holes are often undersized, and therefore need to be cleared by hand with a drill bit. The M3 threaded holes are for the nylon M3 screws. The Ø1.5mm pilot holes are for the 2x10mm self-tapping screws.
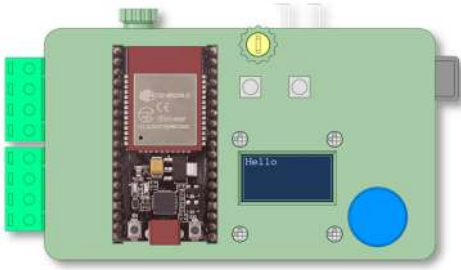
Models are not to scale

# Drill Sizes

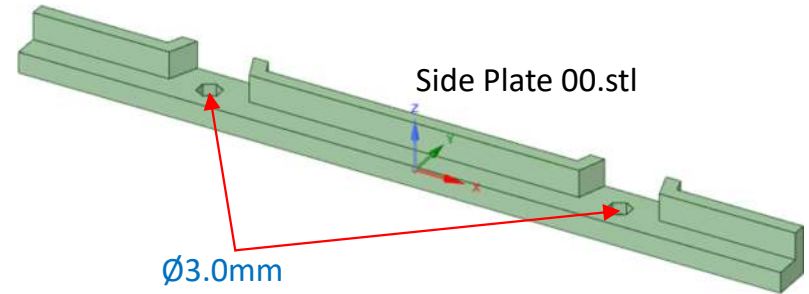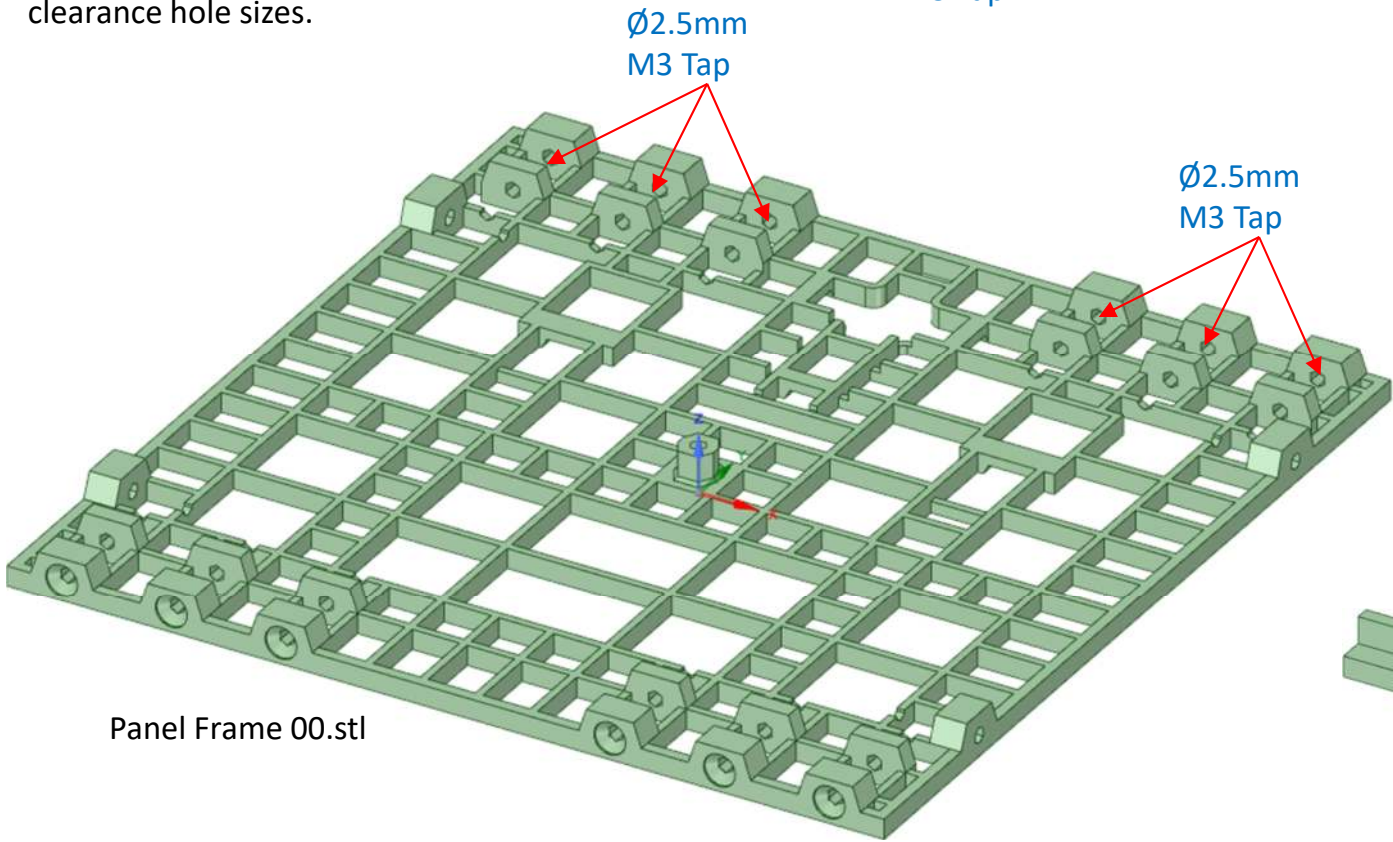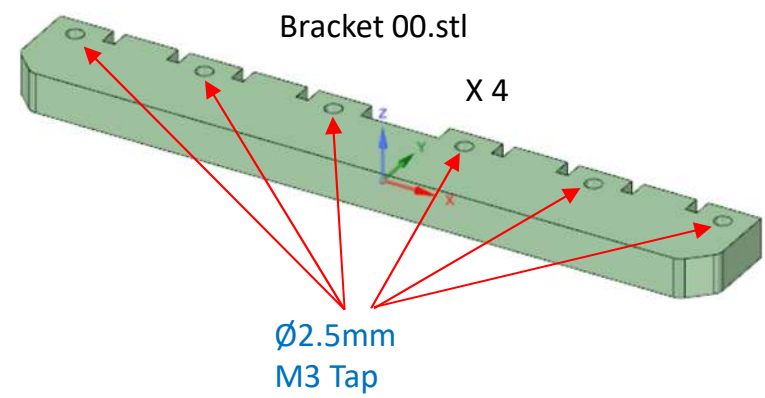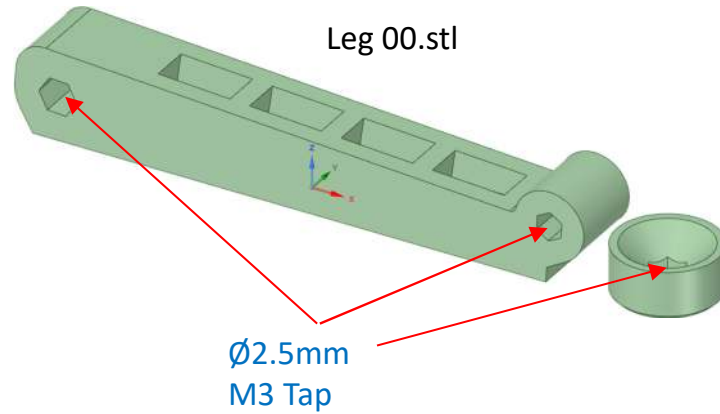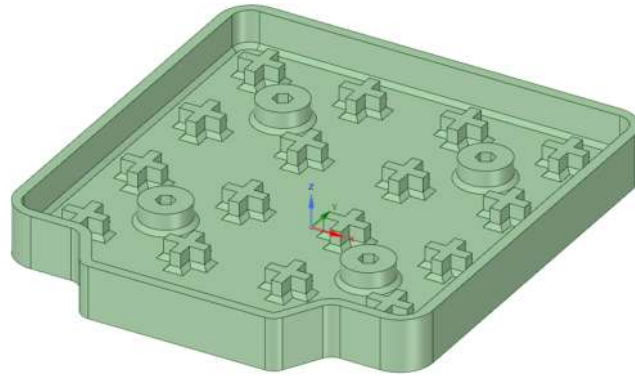This should help you identify all of the pilot drill and clearance hole sizes.

**Leg 00.stl**

Ø2.5mm
M3 Tap

**Bracket 00.stl**

X 4

Ø2.5mm
M3 Tap

Ø2.5mm
M3 Tap

Ø2.5mm
M3 Tap

Panel Frame 00.stl

Side Plate 00.stl
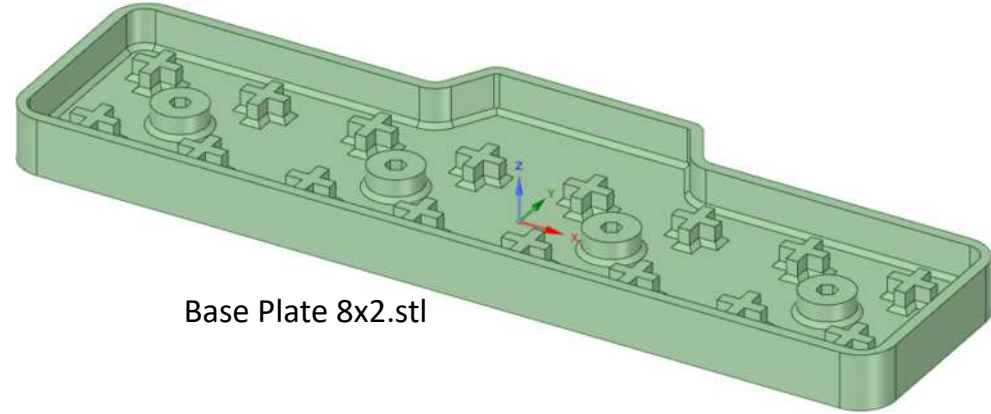
Ø3.0mm

Models are not to scale
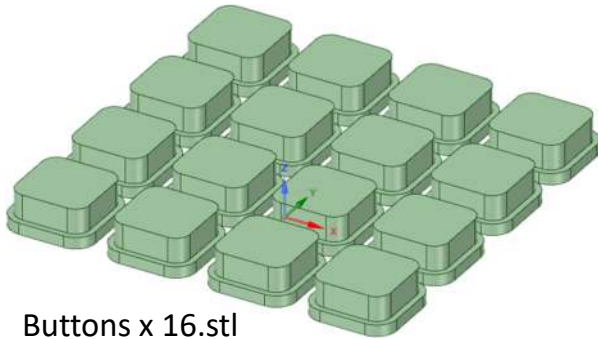
# Switch Parts



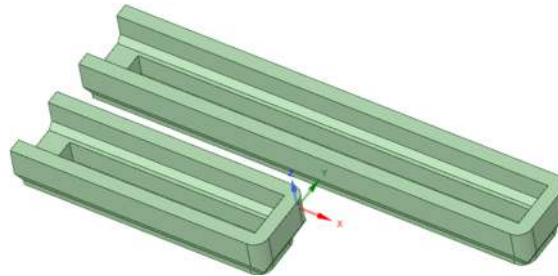This should help you identify all of the parts needed to build the robot.
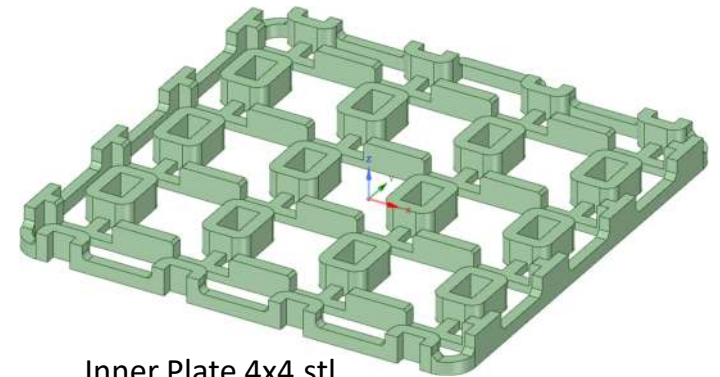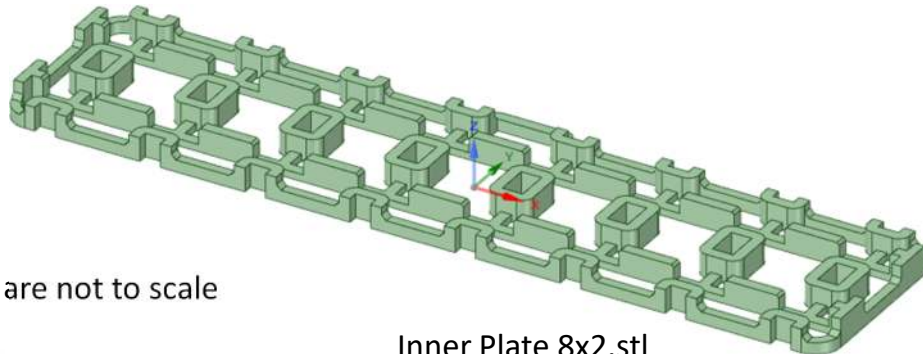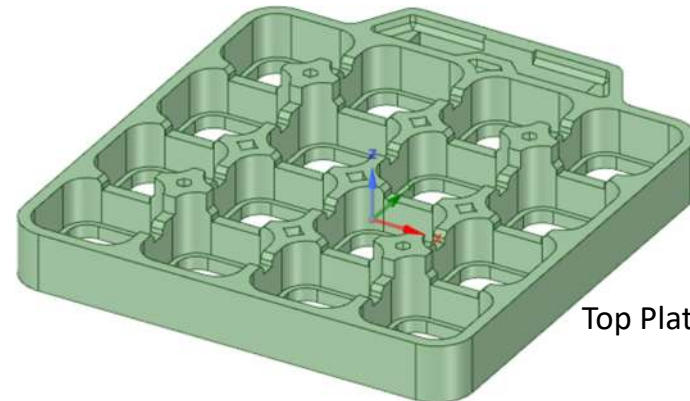


Base Plate 4x4.stl



Base Plate 8x2.stl



Buttons x 16.stl



Connector Covers.stl
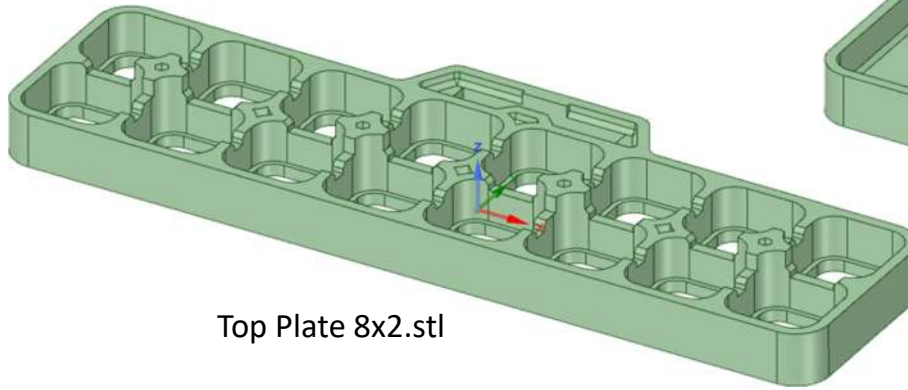


Inner Plate 4x4.stl

Models are not to scale



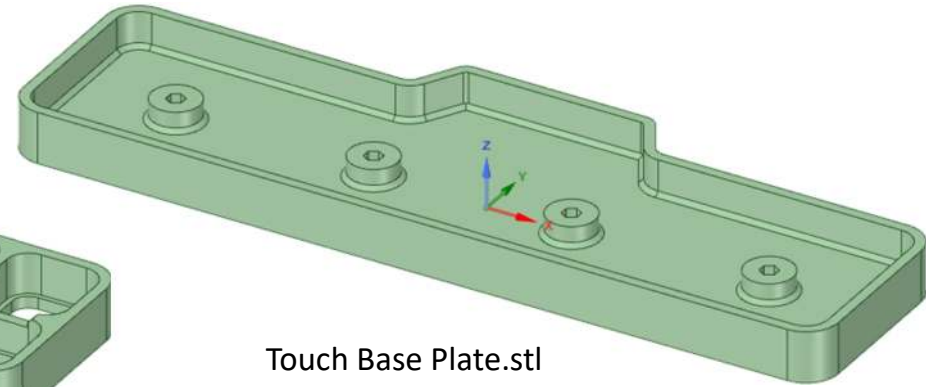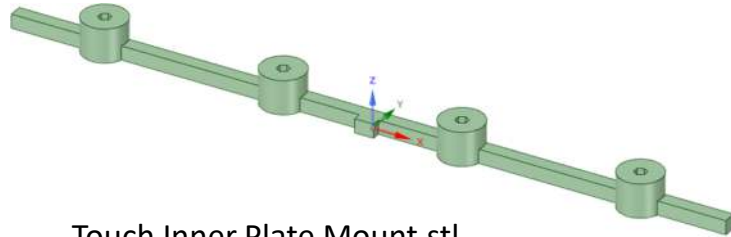Inner Plate 8x2.stl



Top Plate 4x4.stl

# Switch Parts

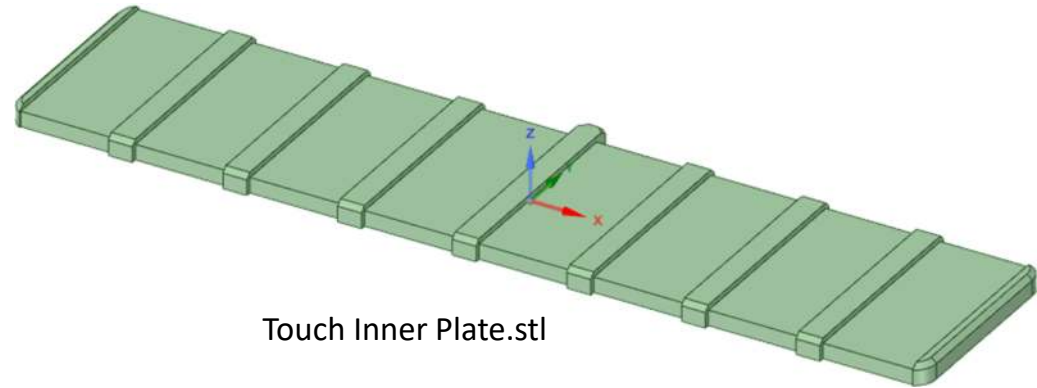This should help you identify all of the parts needed to build the robot.
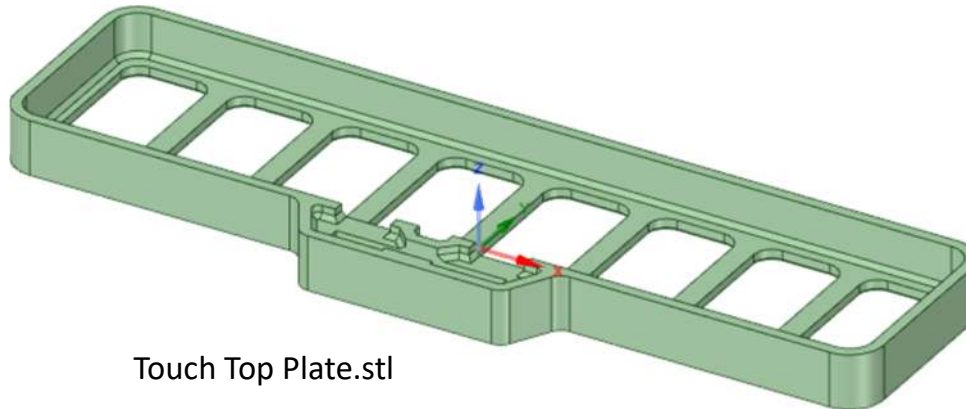
Top Plate 8x2.stl

Touch Base Plate.stl

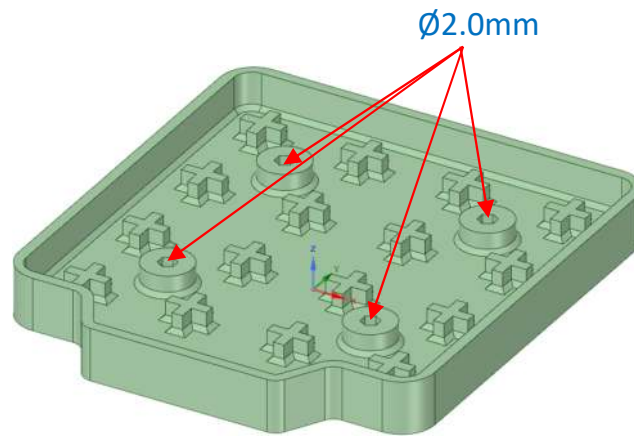Touch Inner Plate Mount.stl

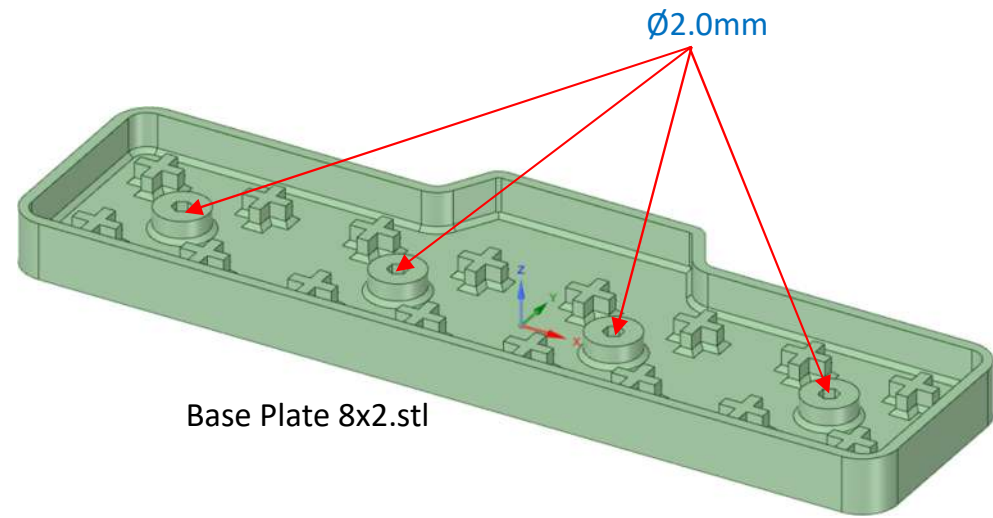Touch Inner Plate.stl

Touch Top Plate.stl

Models are not to scale

# Drill Sizes

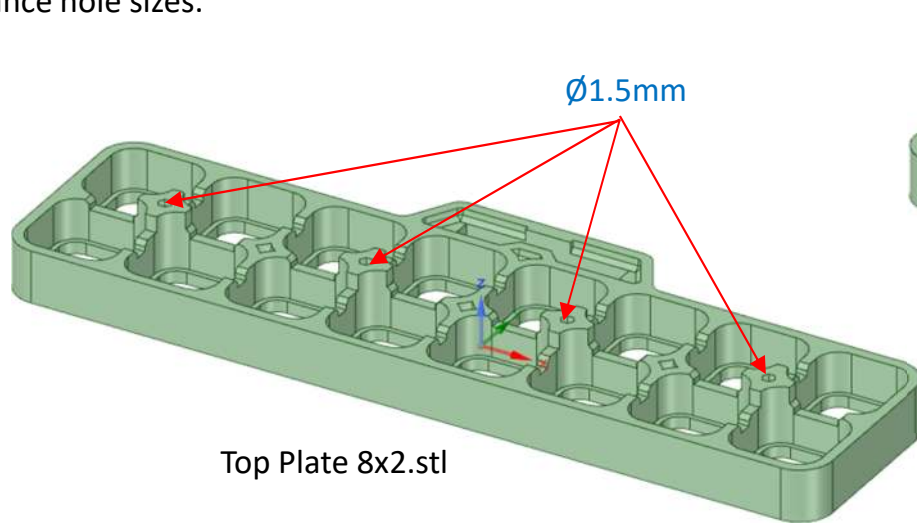This should help you identify all of the pilot drill and clearance hole sizes.

Ø2.0mm
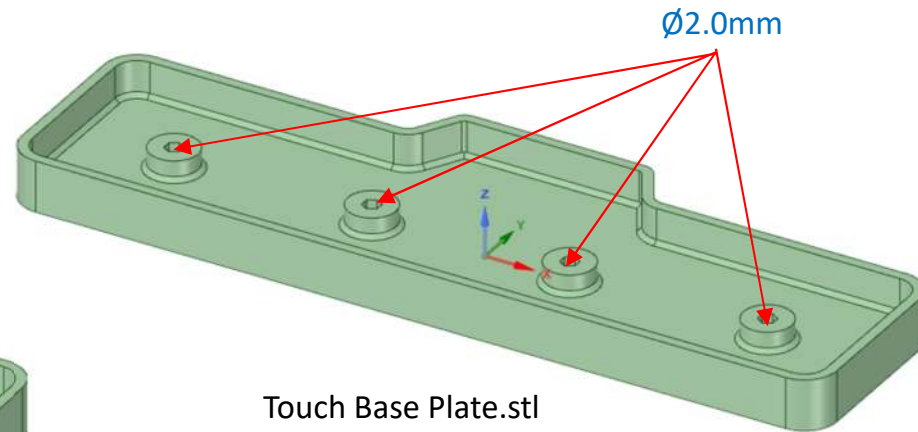
Base Plate 4x4.stl

Ø2.0mm

Base Plate 8x2.stl

Ø1.5mm

Top Plate 8x2.stl

Ø2.0mm

Touch Base Plate.stl

Models are not to scale

Ø1.5mm

Touch Inner Plate Mount.stl

Ø1.5mm

Top Plate 4x4.stl