QuadAuto (ESP32) MKII
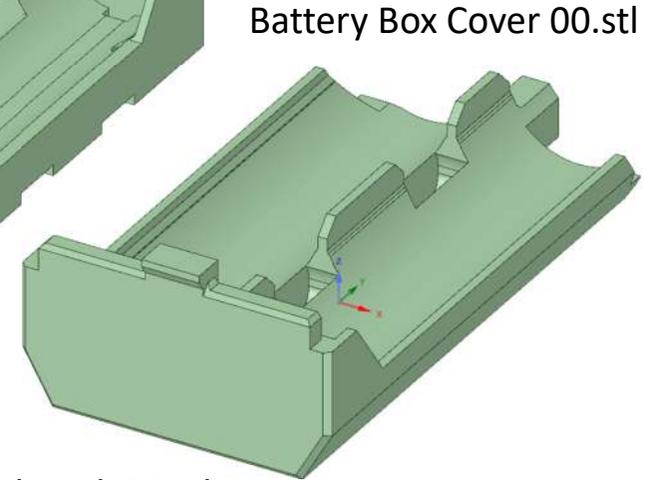
3-D Models
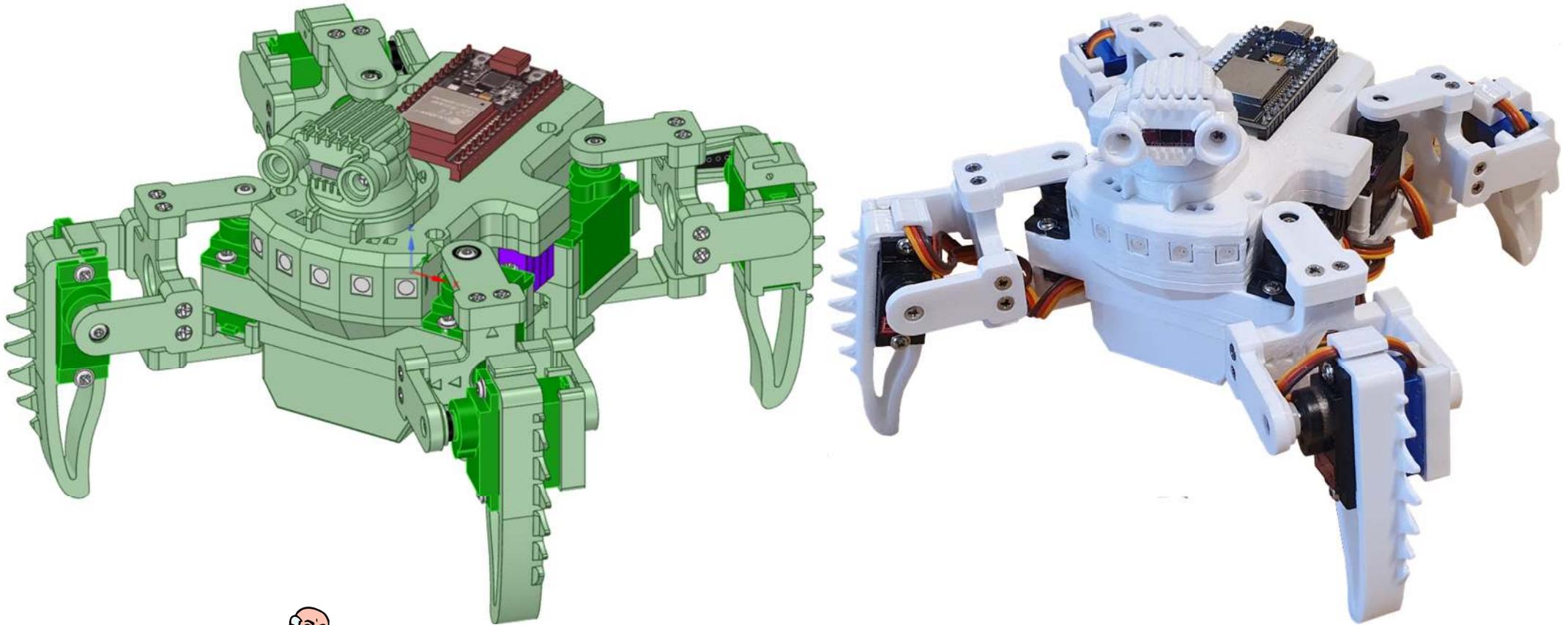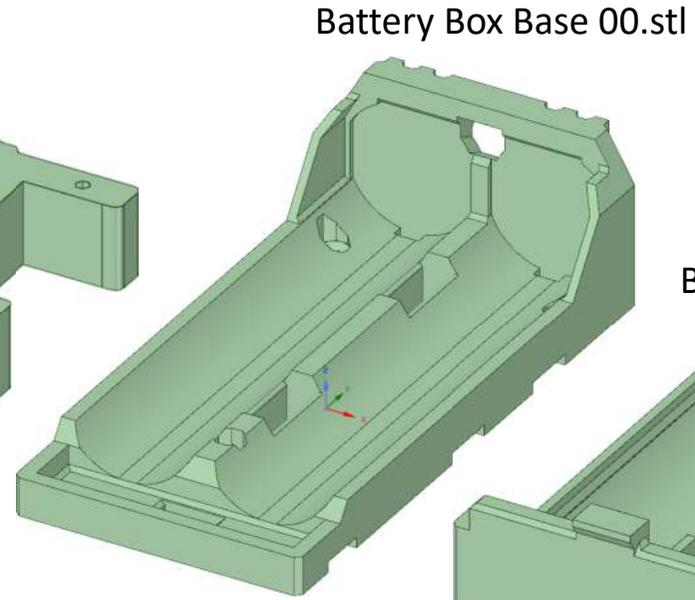

Use this document to identify all of the 3-D parts, including assembly aids.

DS Mechanical

TechKnowTone
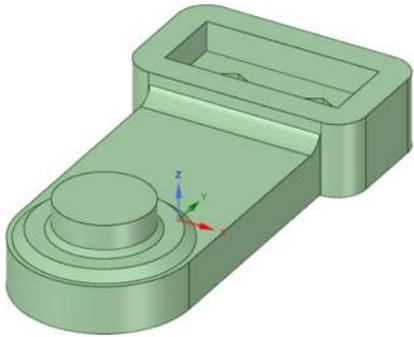
These 3-D views will help you to identify parts.

Multiple parts are shown as N x.

Base Plate 00.stl

Battery Box Base 00.stl

Battery Box Cover 00.stl
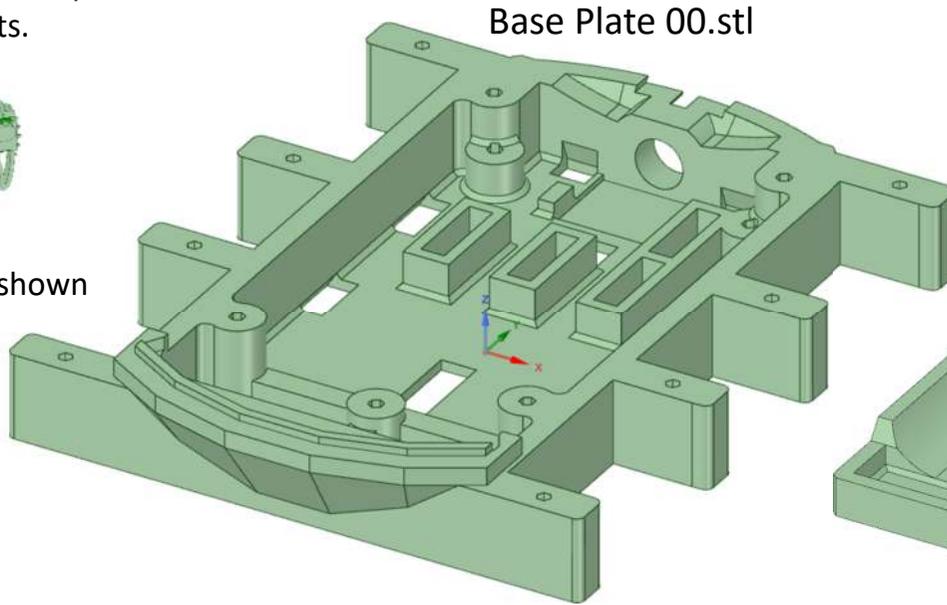
8 x Bearing Plate 00.stl

4 x Cross Joint 00.stl

Head Eyelets 00.stl

Head Neck 00.stl

Head Ring 00.stl

Head Scalp 00.stl

Head Shoulder 00.stl

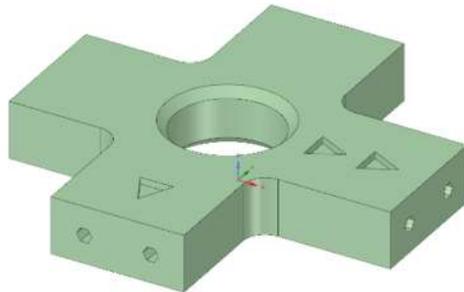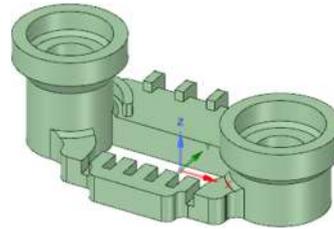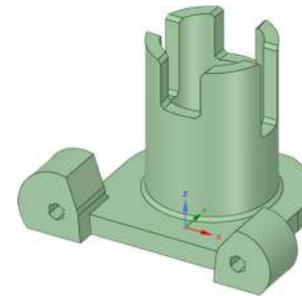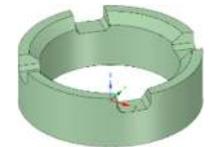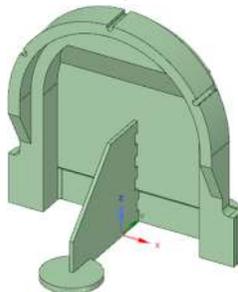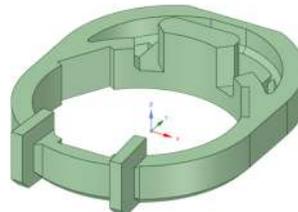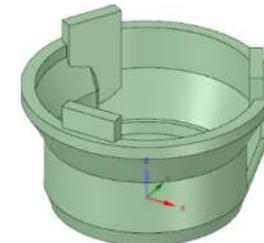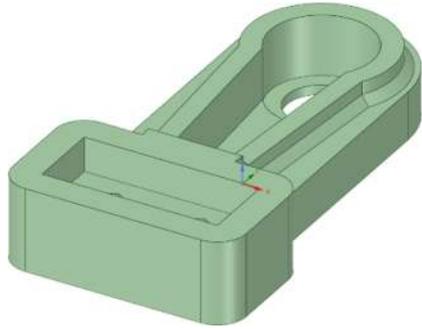Head Shroud 00.stl

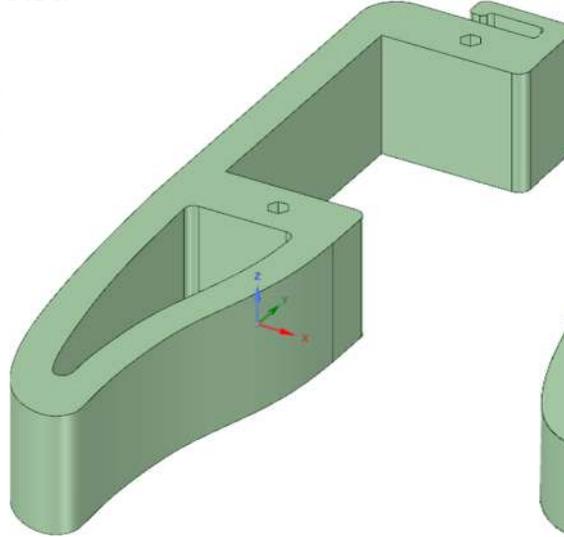These 3-D views will help you to identify parts.

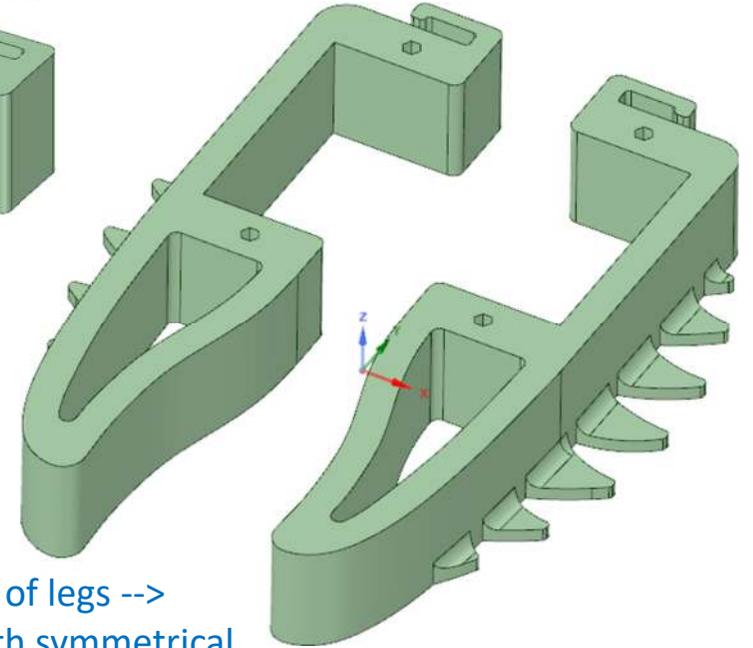Multiple parts are shown as N x.

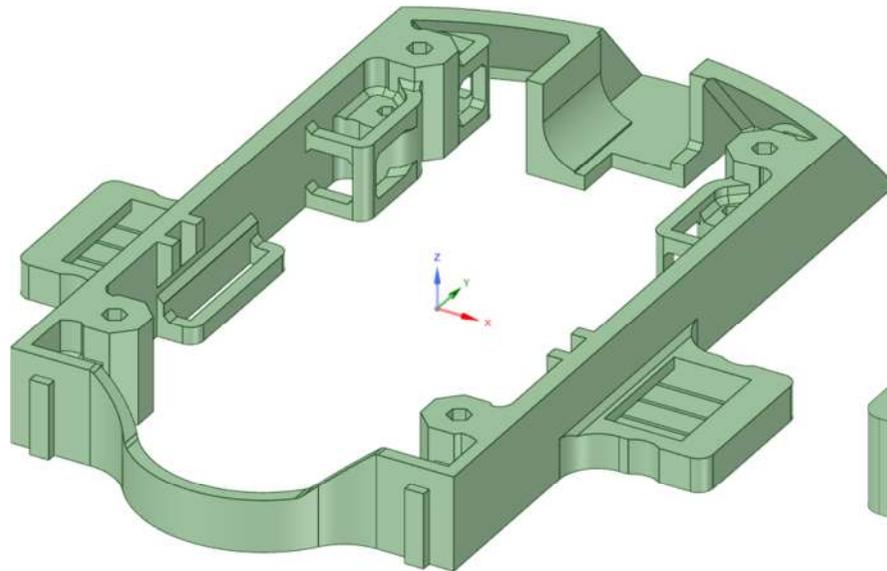8 x Leaver Plate 00.stl

4 x Leg 00.stl

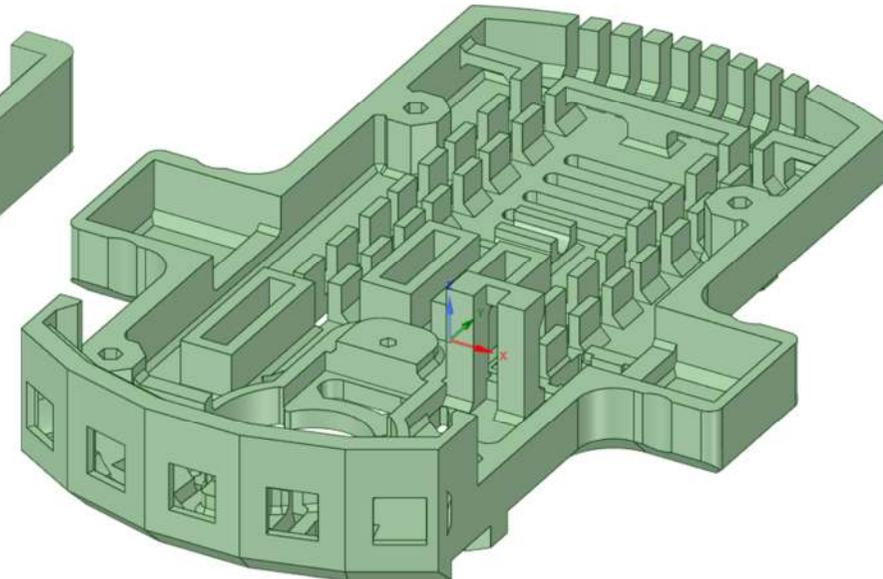2 x Leg x2 Serrated 00.stl

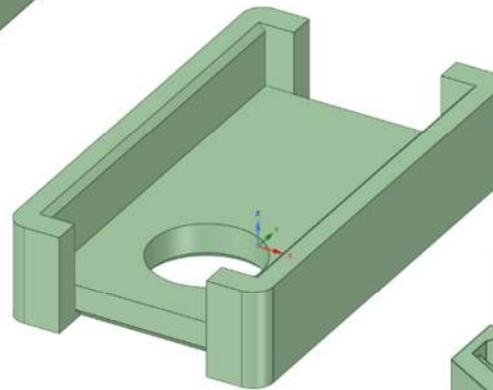Middle Plate 00.stl

<-- Optional choice of legs -->
Choose between smooth symmetrical legs, or spiky leg pairs.

Upper Plate 00.stl
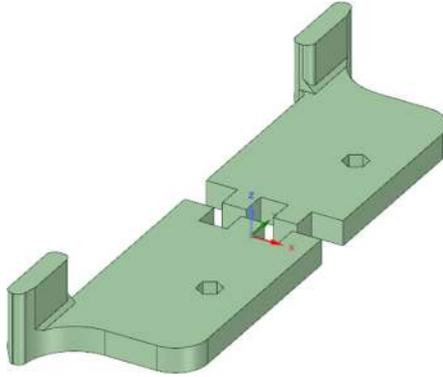
8 x Servo Base Plate 00.stl

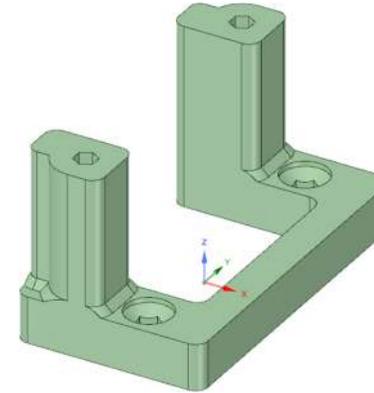These 3-D views will help you to identify parts.
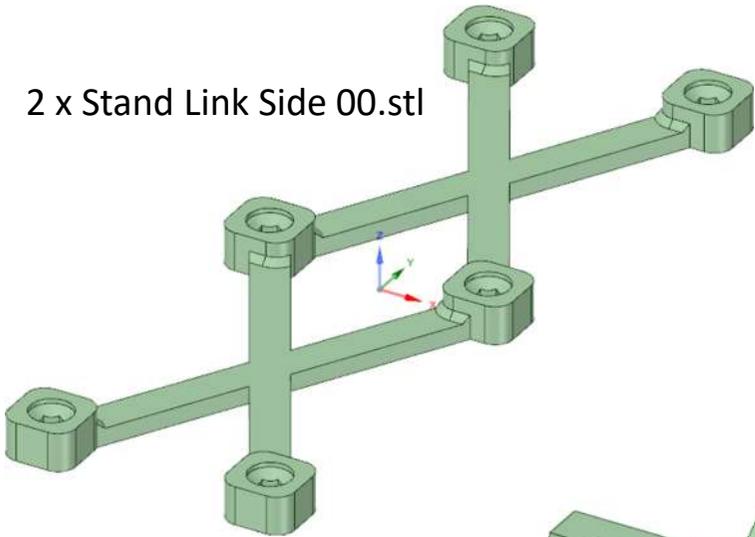
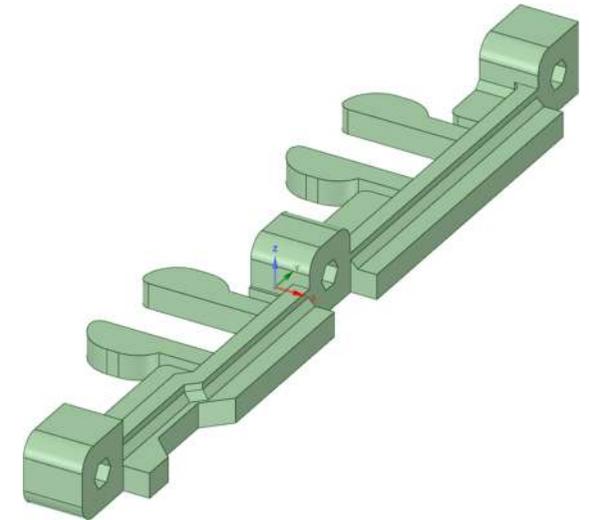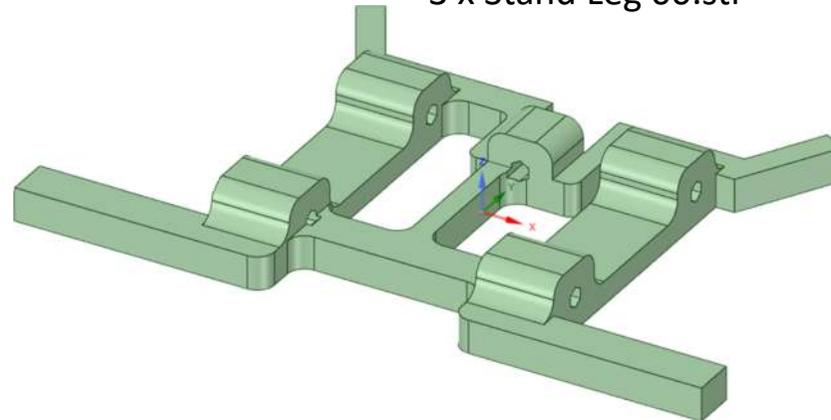Multiple parts are shown as N x.

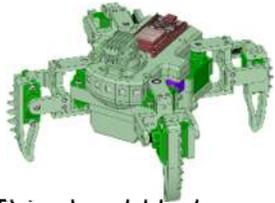2 x Wire Support Covers 00.stl
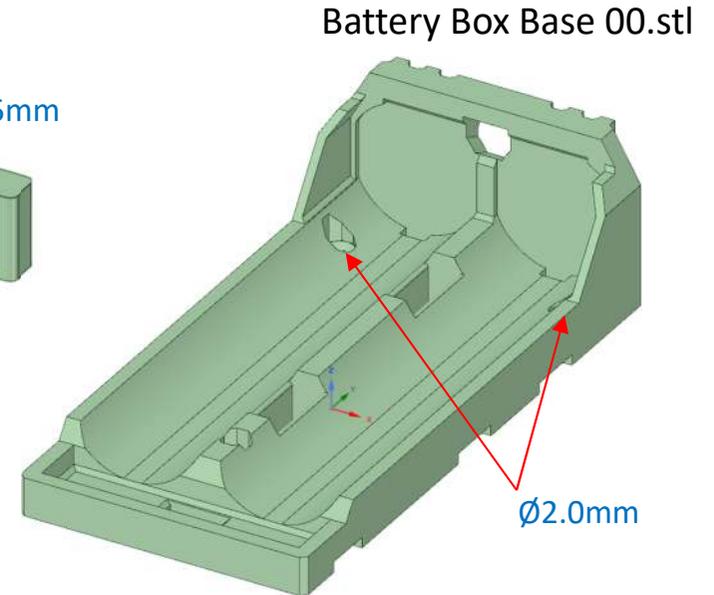
2 x Wire Support Mount 00.stl

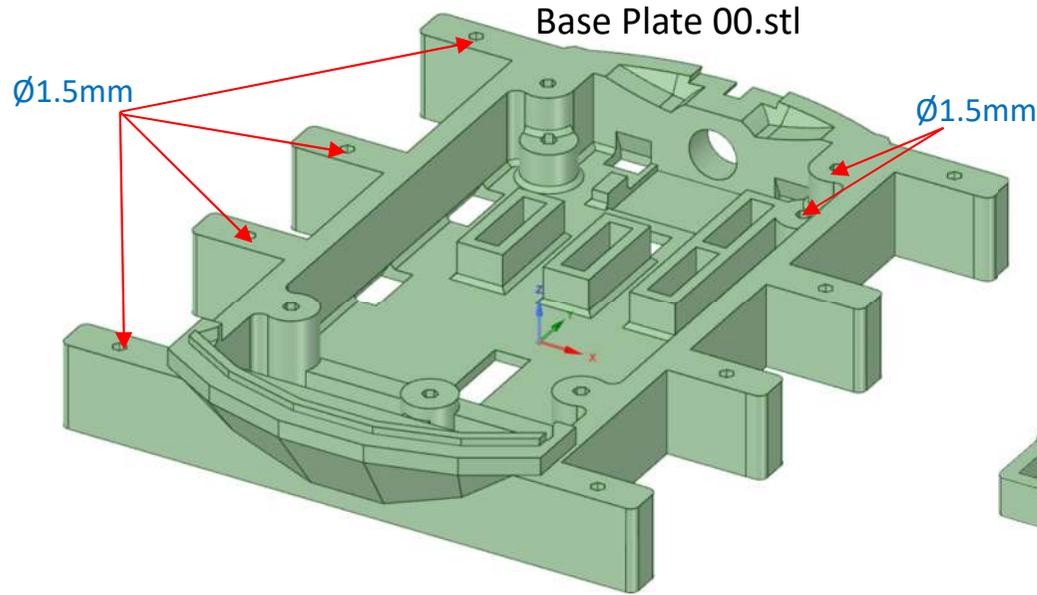2 x Stand Link Side 00.stl

Stand Link Centre 00.stl

3 x Stand Leg 00.stl

Drill Sizes

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

Base Plate 00.stl
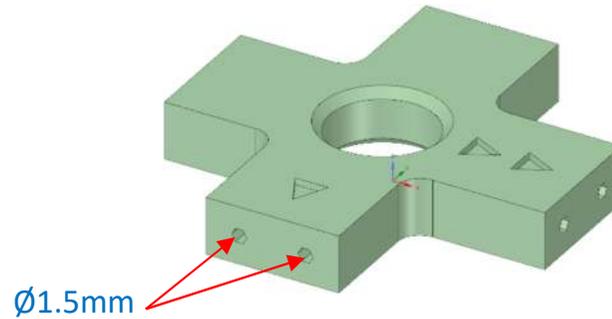
Ø1.5mm

Ø1.5mm

Battery Box Base 00.stl

Ø2.0mm

Bearing Plate 00.stl

Ø2.0mm

Cross Joint 00.stl

Ø1.5mm

Head Eyelets 00.stl
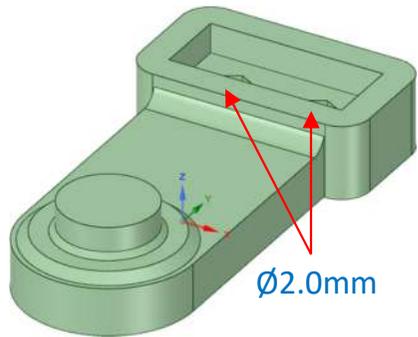
Ø2.0mm

Head Neck 00.stl

Ø1.5mm

Drill Sizes

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

Leaver Plate 00.stl

Ø2.0mm

Leg 00.stl

Ø1.5mm

Leg x2 Serrated 00.stl

Ø1.5mm

<--* Optional choice of legs -->

Middle Plate 00.stl

Ø2.0mm

Ø1.5mm

Ø2.0mm

Upper Plate 00.stl

Ø2.0mm

Ø2.0mm

Ø1.5mm

Drill Sizes

This should help you identify all of the pilot drill and clearance hole sizes.
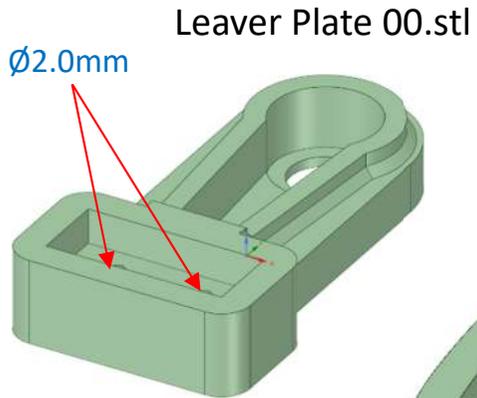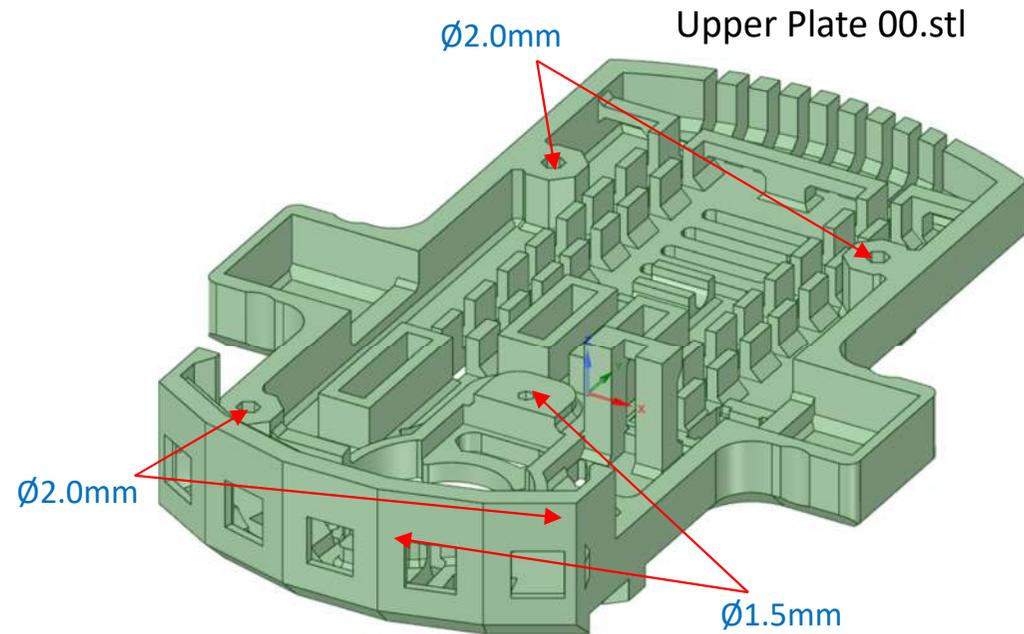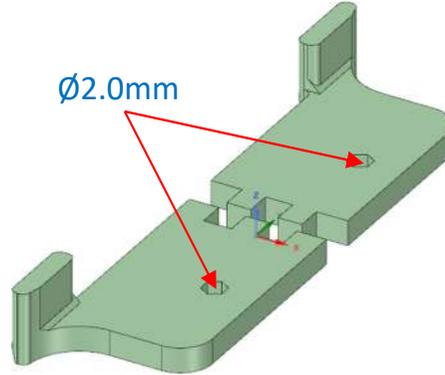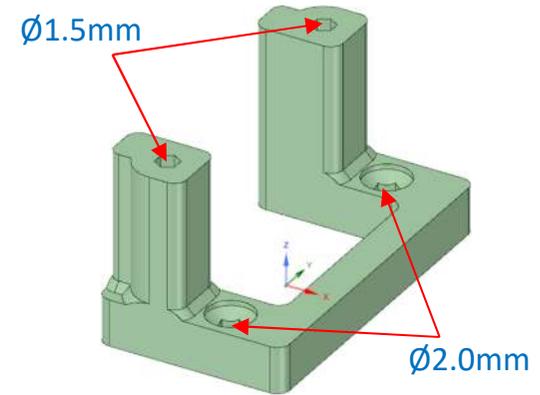
Wire Support Covers 00.stl

Ø2.0mm

Wire Support Mount 00.stl
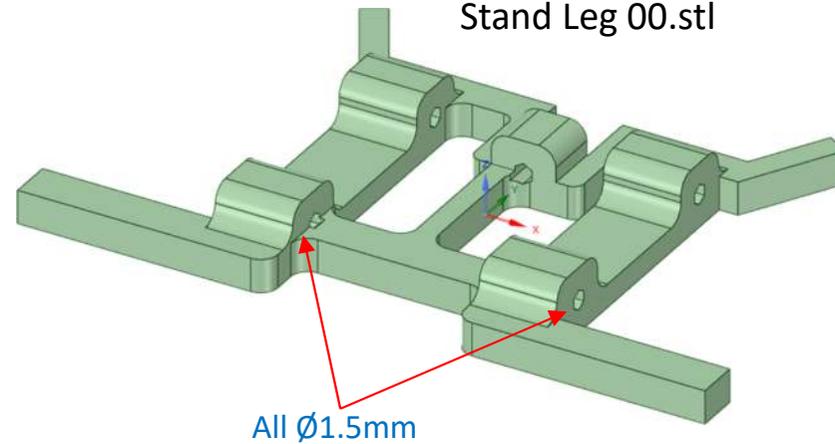
Ø1.5mm

Ø2.0mm

Stand Link Side 00.stl

Ø2.0mm
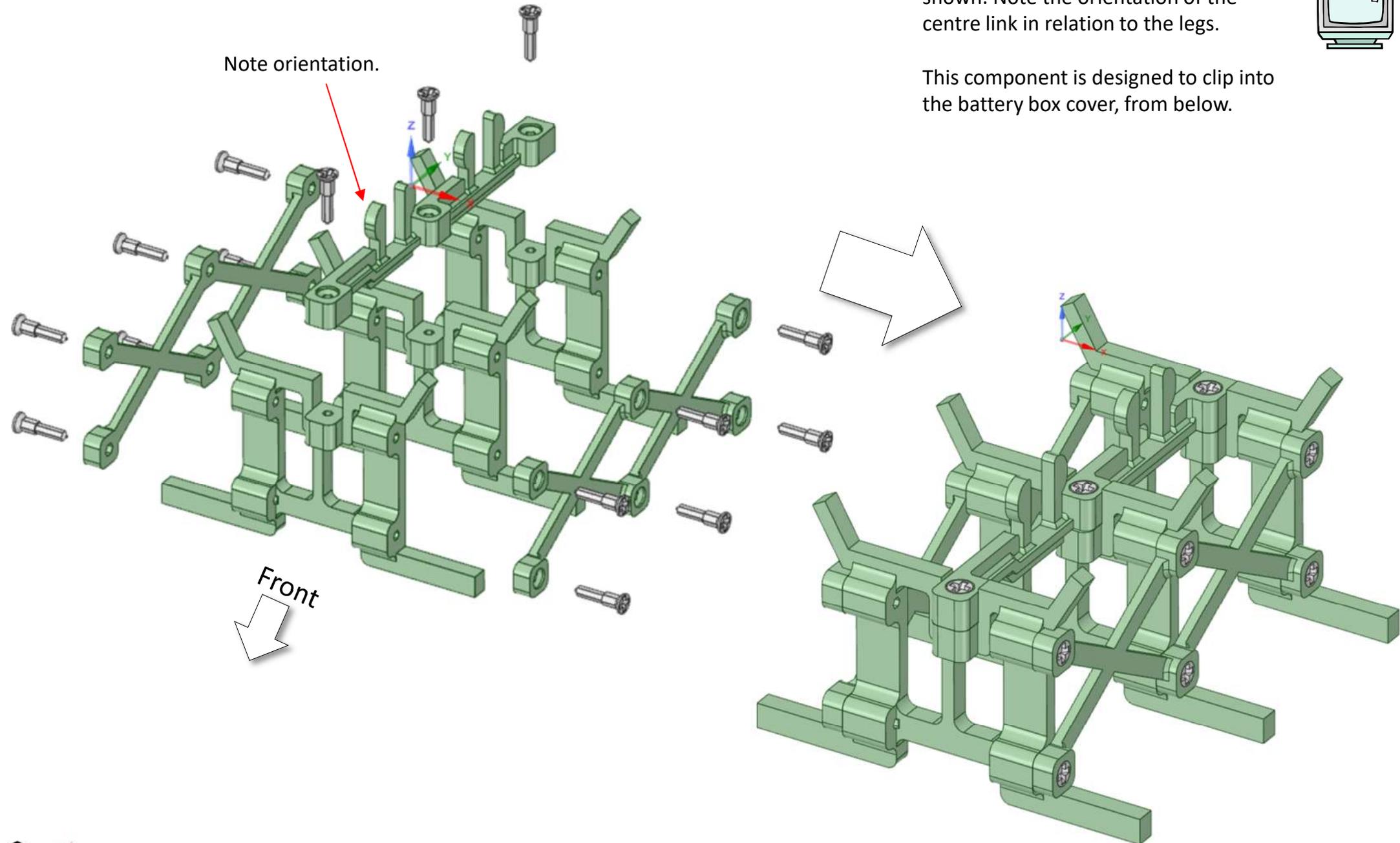
Stand Leg 00.stl

All Ø1.5mm
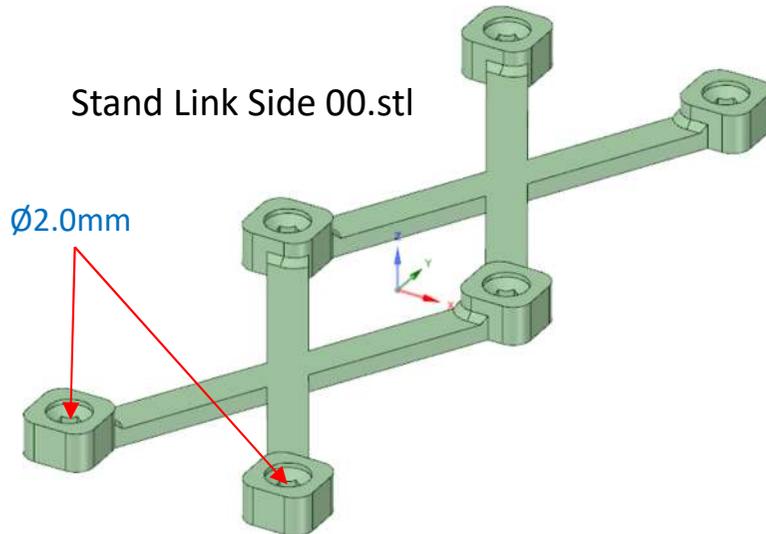
Stand Assembly

Note orientation.

The stand is assembled using 2 x 100m dolls house screws, in the manner shown. Note the orientation of the centre link in relation to the legs.
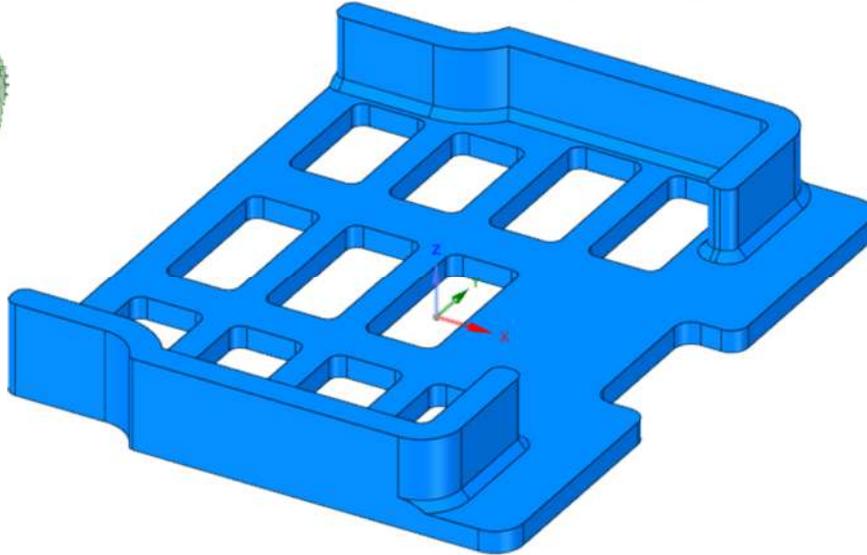
This component is designed to clip into the battery box cover, from below.
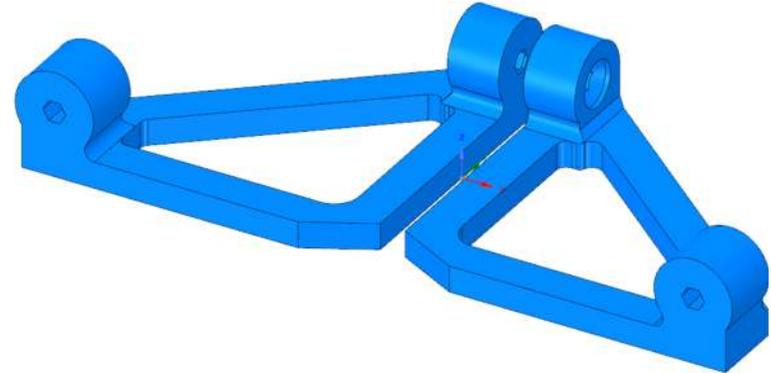
Front

These 3-D views will help you to identify parts.

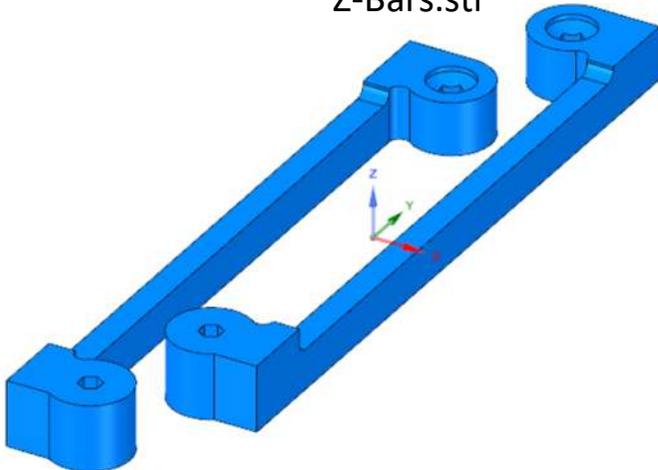These items are not part of the quadruped robot, but they were designed as useful aids, used in the assembly and calibration tasks.
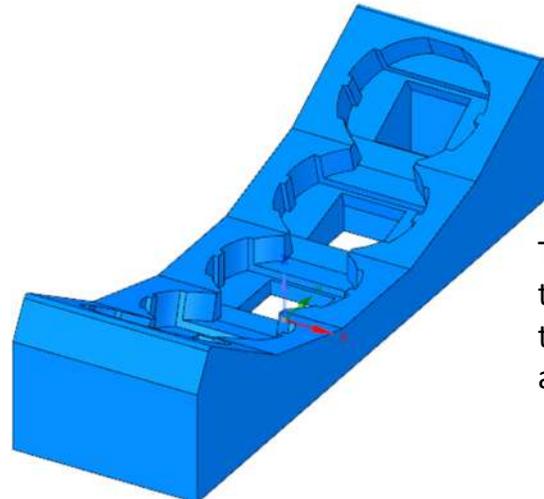
Z-Angle Gauge.stl

Z – Angle Brackets 00.stl

Z-Bars.stl

WS2812 Jig.stl

This jig allows you to pre-wire the RGB LEDs. Then transfer them to the Upper Plate assembly.