Project Debbie



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Parts and Assembly

Production of Parts

3d-printed Parts

The parts of Debbie are mainly 3D printed. There are 3 parts that are laser cut, which are the bottom plate, midde plate and upper plate.

Below is the name of the STL file to be 3d printed, the amount of parts that has to be printed and their infill density.

We strongly recommend these parts to be printed with carbon filament.

All of these parts are found within the respective Folder inside the "Hardware"-folder

Battery:

Name	Amount	Infill
case.stl	x3	70%
cover.stl	x2	100%
cover_closed.stl	x1	100%

Body:

Name	Amount	Infill
back.stl	x1	70%
bolt.stl	x4	100%
front.stl	x1	70%
lower_back_plate_switch_charger.stl	x1	100%
side.stl	x2	70%
upper_back_plate_usb_hdmi.stl	x1	100%

Camera:

Name	Amount	Infill
holder.stl	x1	100%
holder_base.stl	x1	100%
holder_top.stl	x1	100%

Legs:

Name	Amount	Infill
lower_leg_left.stl	x2	70%
lower_leg_right.stl	x2	70%
rubber_tip.stl	x4	40%
thigh.stl	x4	50%

Mounts:

Name	Amount	Infill
distance_rod.stl	x4	100%
servoarm_left.stl	x2	100%
servoarm_right.stl	x2	100%
servoholder_left.stl	x2	100%
servoholder_left_B.stl	x2	100%
servoholder_right.stl	x2	100%
servoholder_right_B.stl	x2	100%

Laser-cut Parts

As mentioned before, there are 3 laser-cut parts. These are the following: bottom plate, midde plate and upper plate.

All of these parts are to be lasered with 3mm plastic. Whatever color you use depends on your personal preference.

Assembly