Birch Mini Joystick - A
3D PRINTING GUIDE

3D Printing Summary

Metrics	Joystick housing only (No optional prints)	All files including optional prints
Total Print Time (hr:min)	2:57	5:19
Total Number of Components	3	9
Typical Total Mass (g)	26.0	44.2
Typical Number of Print Setups	1	1

3D Printing Settings

Print File Name	Qty	Total Print Time (hr:min)	Mass (g)	Infill (%)	Support (Y/N)	Layer Height/ Nozzle Diameter(mm)	Notes (orientation, special settings, etc.)
Birch_Enclosure_ Bottom	1	1:46	14.9	20	N	0.2/0.4	Print in given orientation
Birch_Enclosure_Top	1	1:07	10.6	20	N	0.2/0.4	Print in given orientation
Inner_cover_disk	1	0:04	0.5	20	N	0.2/0.4	Print in given orientation
Optional Prints							
Joystick_Camera_ Mount_Adapter	1	0:54	8.5	20	Y	0.2/0.4	Print in given orientation
Birch_Topper_Small_ dome	1	0:08	0.6	20	N	0.2/0.4	Print in given orientation
Birch_Topper_ Medium_dome	1	0:17	1.7	20	Y	0.2/0.4	Print in given orientation
Birch_Topper_Large_ dome	1	0:37	4.9	20	Y	0.2/0.4	Print in given orientation
Birch_Topper_Ring	1	0:16	1.5	20	Y	0.2/0.4	Print in given orientation, ring parallel to print bed
Birch_Topper_ Concave	1	0:10	1.0	20	N	0.2/0.4	Print in given orientation

Post-Processing

- Remove any bumps or zits from the surface where the enclosure meets the lid.
- Remove any bumps or zits from both surfaces of the inner cover disk. If any binding occurs between the joystick and the inner cover disk when assembling, sand down this part.
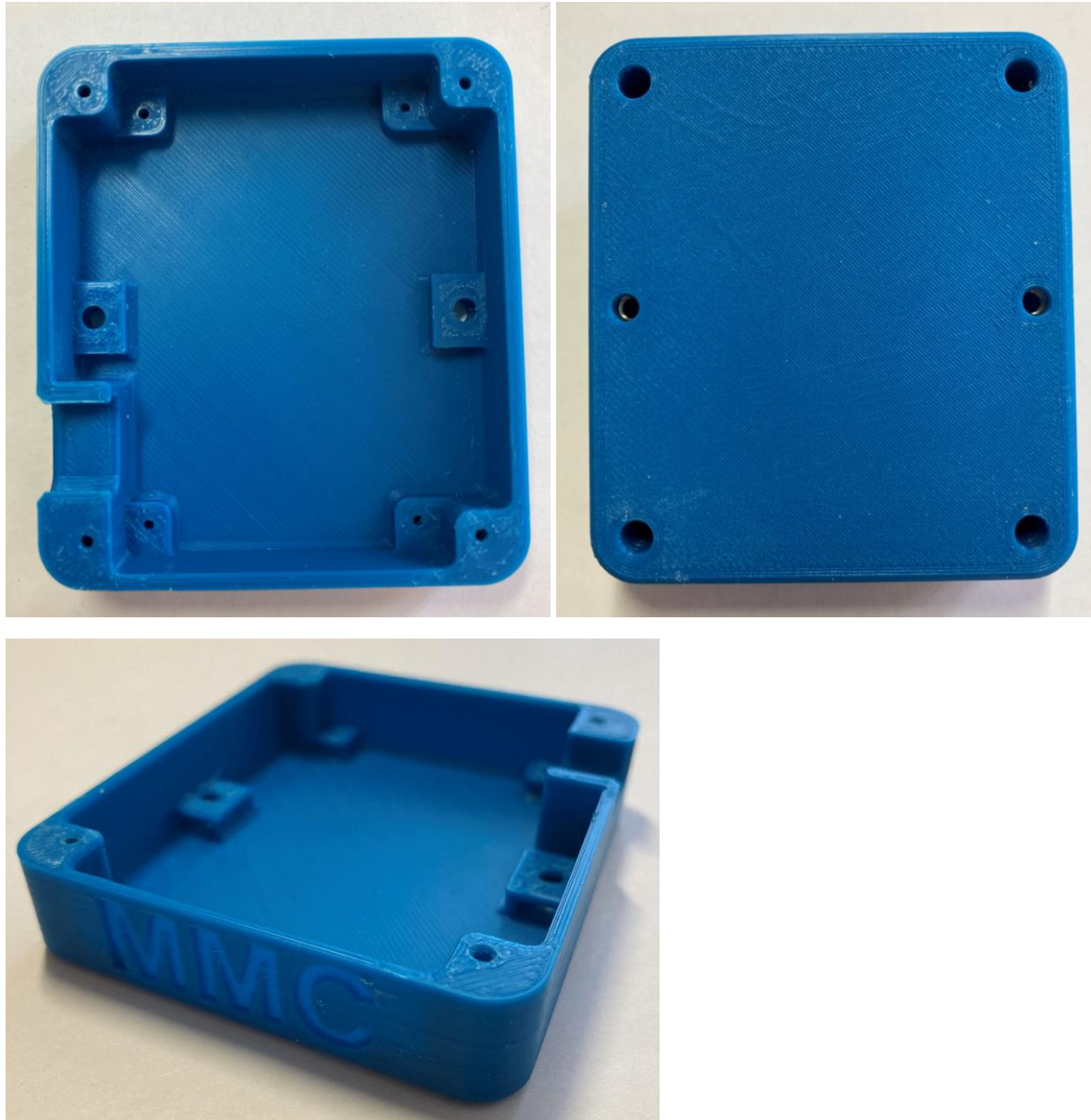- Remove any supports from camera mount or toppers if printed.

Customization Options

- Joystick housing can be printed in multiple colours.
- The joystick camera mount adapter is an optional add-on for mounting using ¼-20 threads
- The optional topper prints can customize the joystick for different users

Files available at https://github.com/makersmakingchange/Birch-Mini-Joystick

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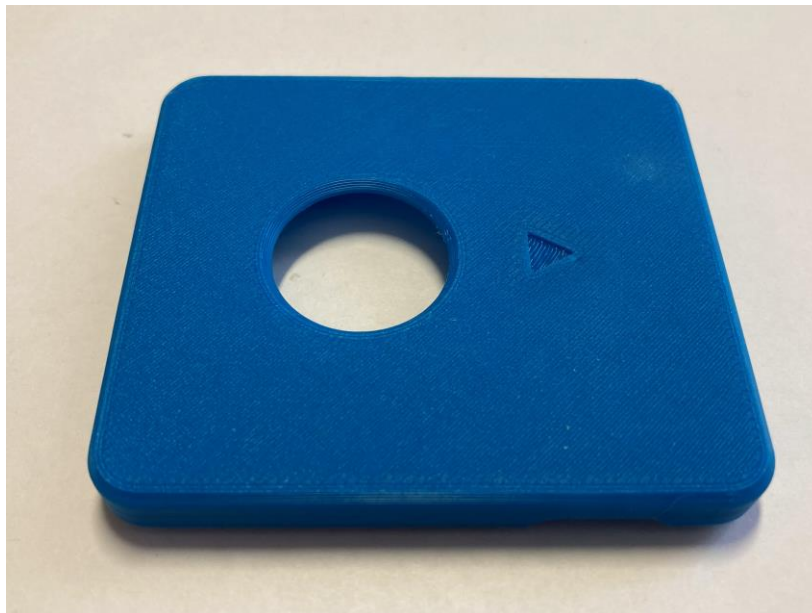# 3D PRINTING GUIDE

Examples of Quality Prints
Birch_Enclosure_Bottom v0.2

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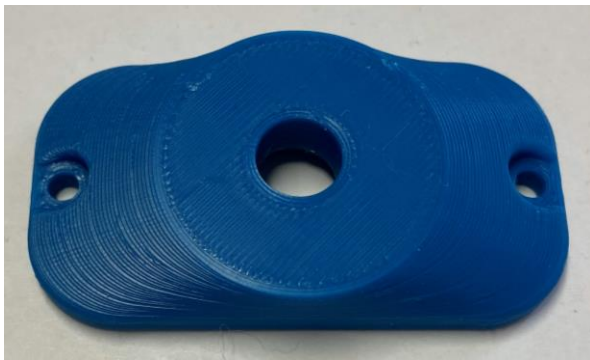# 3D PRINTING GUIDE

Birch_Enclosure_Top v0.2

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Makers Making Change
A Neil Squire Program

Inner_Cover_Disk v0.2

Joystick Camera Mount Adapter

Joystick toppers