Universal Lockable Joint
3D PRINTING GUIDE

Makers Making Change
A Neil Squire Program

3D Printing Summary

Metrics	Metric Standard	Imperial Standard
Total Print Time (min)	1110	1110
Total Number of Components	3	3
Typical Total Mass (g)	619	619
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)
Left_Side.stl	1	8:30	30	20	N	0.2	- Recommend 4 or 5 shells/perimeters. - Print “standing”, as seen in pictures below.
Right_Side.stl	1	8:30		20	N	0.2	- Same notes as “Left Side” above.
Handle.stl	1	1:30		20	N	0.2	- Print with flat face on print bed, as seen in picture.

Post-Processing

- Light sanding might be necessary to correct any sharp edges.

Customization Options

- PETG recommended, PLA works well.
- Color of print is up to personal preference.
- Ensure that correct configuration is used based on fasteners purchased, if M10 bolt and nut use metric, if 3/8” nut and bolt use imperial.

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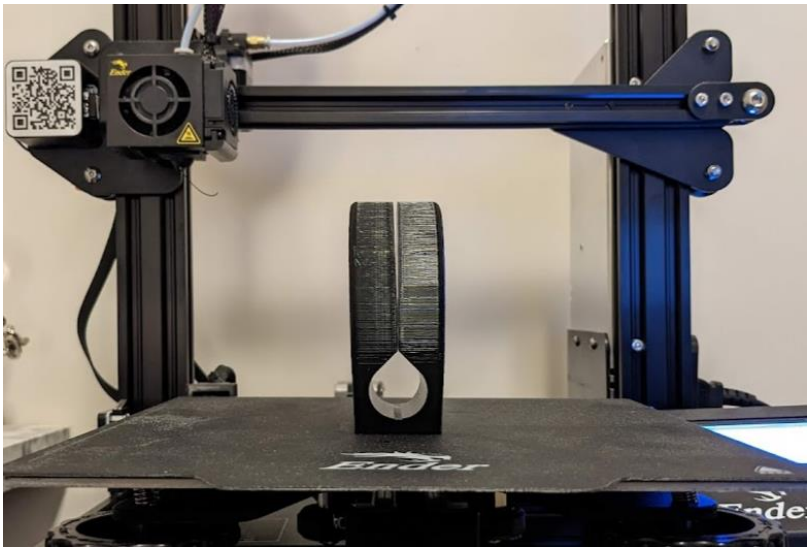
Examples of Quality Prints:

Photos of Component 1 (Left_Side):

*Left Shell includes hexagonal indentation on the side, for fitting bolt head.

Photos of Component 2 (Right_Side):



* Same as Left_Side, except for omission of hexagonal indentation

Photos of Component 3 (Handle):