

Open Universal Mounting Plate

3D PRINTING GUIDE

Device Variants

This device has three options for mounting plate width and three options for tee nut length. To find accurate print details for each variant, find the corresponding table for your configuration.

3D Printing Summary

Configuration	Total Print Time (min)	Total Number of Components	Typical Total Mass (g)	Typical Number of Print Setups
Configuration 1 Small Plate with 5/16" Tee Nut	84	3	11	1
Configuration 2 Small Plate with 7/16" Tee Nut	88	3	12	1
Configuration 3 Small Plate with 9/16" Tee Nut	94	3	13	1
Configuration 4 Medium Plate with 5/16" Tee Nut	149	3	19	1
Configuration 5 Medium Plate with 7/16" Tee Nut	143	3	21	1
Configuration 6 Medium Plate with 9/16" Tee Nut	152	3	23	1
Configuration 7 Large Plate with 5/16" Tee Nut	214	3	29	1
Configuration 8 Large Plate with 7/16" Tee Nut	232	3	32	1
Configuration 9 Large Plate with 9/16" Tee Nut	252	3	35	1

3D Printing Settings

Configuration 1: Small Plate with 5/16" Tee Nut

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.)
45_Mounting_Plate_5.stl	1	1:09	9	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

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Configuration 2: Small Plate with 7/16" Tee Nut

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.)
45_Mounting_Plate_7.stl	1	1:13	10	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 3: Small Plate with 9/16" Tee Nut

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.)
45_Mounting_Plate_9.stl	1	1:19	11	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 4: Medium Plate with 5/16" Tee Nut

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.)
65_Mounting_Plate_5.stl	1	2:14	17	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 5: Medium Plate with 7/16" Tee Nut

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.)
65_Mounting_Plate_7.stl	1	2:08	19	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

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Configuration 6: Medium Plate with 9/16" Tee Nut

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.)
65_Mounting_Plate_9.stl	1	2:17	21	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 7: Large Plate with 5/16" Tee Nut

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.)
85_Mounting_Plate_5.stl	1	3:19	27	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 8: Large Plate with 7/16" Tee Nut

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.)
85_Mounting_Plate_7.stl	1	3:37	30	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

Configuration 9: Large Plate with 9/16" Tee Nut

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.)
85_Mounting_Plate_9.stl	1	3:57	33	20	N	0.2/0.4	Print in orientation given in STL
Hardware_Cover.stl	1	00:10	1	20	N	0.2/0.4	Print in orientation given in STL
Assembly_Washer.stl (Optional)	1	00:05	1	20	N	0.2/0.4	Print in orientation given in STL

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Post-Processing

The mounting plate has a sacrificial bridge across tee nut mount that must be removed. Use pliers to clear this and any other loose print material. All parts should be inspected to ensure that all surfaces are smooth, and edges are non-sharp.

Customization Options

Users may request their choice print colour and mounting plate size from small, medium, and large. There are also three variants of tee nut sizes to match the hardware the builder chooses to use. Use the Sizing Diagram to verify what size tee nut you are using and select the corresponding STL file for the mounting plate.

Custom Hardware

Print files have been released for 3 mounting plate sizes with 3 tee nut sizes each, but custom hardware and sizes can also be implemented. A parametric Fusion 360 model is available that can be adjusted to make custom mounting plates.

Examples of Quality Prints

Photos of the Mounting Plate

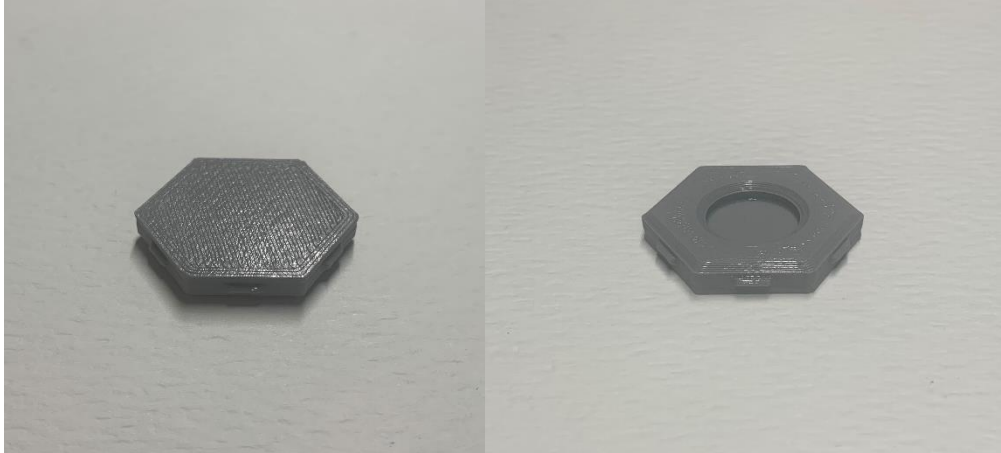


Note: This is an example of one of the nine total options of the mounting plate.

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Photos of the Hardware Cover



Photos of the Assembly Washer

