



**Wall mount  
compatible with  
LEGO® car models  
(tilted for viewing),  
with proper stud  
sizes that fit snugly**



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## Summary

A wall mount compatible with LEGO® car models that is modeled properly for 3d printing, based on the their unit specs



2.55 hrs



1 pcs



0.10 mm



0.40 mm



PLA



11 g



Prusa  
MK3/S/S+

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Obviously I don't own the LEGO® brand, and the fact that this fits their bricks doesn't mean they support this model. Go buy their products if you want quality, this is just an homage to their brand, not a LEGO® supported product.

I tried downloading wall mounts out there but there were a couple of issues

1. They're probably modeled after measurements of bricks not the spec and then 3d printed, which may not yield a snug fitting stud.
2. They're completely horizontal, and I feel like that doesn't properly display a car model.

So I went and figured out the right spec for LEGO® and found out that they have units (1.6mm) and their bricks are modeled after that unit, not specifically millimeters.. for example, you can find measurements out there by googling that round to the most convenient half or full size millimeter.

... And If a model was properly sized, then you can slice it, the generated G-code may not be exact and may result in a 0.1-0.2mm difference, and that makes the studs not hold a model!

I printed my prototype studs in different sizes and found the most appropriate one and this is modeled after that. I erred on the side of caution when it comes to keeping your model attached, so it may fit a little too snugly for assembly, but not enough that the stud may deform much when printed with **PLA**. I doubt this can be printed in PETG and hold for many disassemblies without deforming the studs.

I added a 25 degree angle downwards to better display the model and for proper access to the top mounting hole.

Print "lower-front" side down so that studs are printed at an angle, and use a 0.1mm layer height for better strength (see reference picture).

I mounted these on drywall, and these are my favorite type of **wall anchors**.

I added the sliced model with the right face down for the Mk3\*  
Again, this is not a LEGO® product, this is my attempt to mount their cool models to the wall.

## Model files



**lego-car-wall-mount.stl**

# Print files



## lego-car-wall-mount\_01mm\_pla\_mk3s\_2h33m.gcode

PLA 0.40 mm 0.10 mm 2.55 hrs 11 g Prusa MK3/S/S+

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