



Dodge (RAM 2nd gen, others) windshield trim push nut



Maker_of_Toys

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Summary

Push-nuts to secure the windshield valance and other trim on Dodge Ram (and maybe other) vehicles.



0.25 hrs



2 pcs



0.20 mm



0.40 mm



PET



2 g



Prusa
MK3/S/S+

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So the windshield wiper motor on my 24-year-old Ram pickup packed it in. Chrysler is somewhat notorious for the poor aging characteristics of their polymer parts. . . . And, of course, getting to that motor --especially when you're late, annoyed, and being rained on in the parts store parking lot-- isn't a gentle operation for the parts involved. End result, I needed some of

the specialty pushnuts that hold the trim over the motor and bottom of the windshield.

A couple minutes of CAD and some filament was faster and cheaper than trying to source NOS parts. The head has a socket for a 4mm hex driver, and the inside is threaded M6x1.0, even though the mating stud is merely finned, not threaded. (on my truck, at least.) The OEM part is a Torx head (T25 or T30, IIRC) but the hex was faster to generate in CAD.



These print moderately well with the head down, without supports, in about 12 minutes each with a 0.2mm layer and a 0.4mm nozzle; the included gcode is for PETG, but glass-filled ASA or nylon is probably a better bet if you're equipped for it.

Printing at a finer resolution made the surface of the head look worse, but that might be avoidable with tuning, (lower extruder temps and really dry filament?) added supports, or with a steeper overhang. I didn't think it was worth it; more rain was coming, and this is a work truck; I just wanted to

get it back on the road. . .I don't expect to enter it in a concours.



(0.1mm layer on left, 0.2mm layer on right)

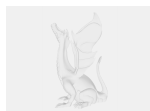
.STEP, and .STL included for the remixers.

If you re-slice this, remember it's supposed to be a structural fastener, and use plenty of perimeters!

Model files



dodge_push_nut-6mm.3mf



dodge_push_nut-6mm.step



dodge_push_nut-6mm.stl

Print files



dodge_push_nut-6mm_02mm_petg_mk3s_15m.gcode

PET 0.40 mm 0.20 mm 0.25 hrs 2 g Prusa MK3/S/S+



dodge_push_nut_6mm_x3_02mm_petg_mk3s_35m.gcode

PET 0.40 mm 0.20 mm 0.59 hrs 4 g Prusa MK3/S/S+

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