



Vehicle Wrenching Game for Kids



Bootjevaarder

[VIEW IN BROWSER](#)

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Summary

Who is quickest in assembling this 4WD vehicle?

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Tags: [bolt](#) [quad](#) [screw](#) [mcdonalds](#) [nut](#) [car](#) [drive](#)
[four](#) [volkswagen](#) [wheel](#) [tinker](#) [mac](#) [vw](#) [frame](#) [axle](#)
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This is a wrenching competition game for kids and parents. The quickest wrencher wins!

All joints are threaded, even the tyres. Two tools are available for assembling/disassembling the bolts and wheels.

Playing

Spread all parts on the table:

- Assemble 5 wheels;
- Assemble the front and rear axles with gears;
- Assemble the central shaft with gears;
- Join the frame halves with the axles and shaft in place;
- Fasten the bumper and spare wheel to the frame using the bolts;
- Fasten 4 wheels to the axles.

Printing

I printed this model on my PRUSA Mini, 0.15 mm layer height, 5 perimeters.

No glueing, no metal parts.

Dimensions: 164 x 90 x 70 mm - Weight : 0.15 kg..

Update

Update 13-4-2023: "Volkswagen" and "Mac" frames added.

" T o e d u c a t e a n d e n t e r t a i n "

Model files



3d-assembled-view.stl

☐ Do not print.



3d-exploded-view.stl

☐ Do not print.



tyres.stl



rims.stl



drive-shaft.stl

☐ Print with brim.



axles.stl

☐ Print with brim. Print with 5 perimeters.



gears.stl



frame-halves.stl

☐ Support on build plate. Print with brim.



frame-halves-mac.stl

☐ Support on build plate. Print with brim.



frame-halves-volkswagen.stl

☐ Support on build plate. Print with brim.



spare-wheel-bolt.stl



bumper.stl



bumper-bolt.stl



tools.stl

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