



BMW window wrench



Yos

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Summary

A tool for BMW / Mini windows bolts

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Some BMW cars (E82, E88, F20, F22, F32....) and MINI use a unique shaped bolt (51337184604) for fixing windows. Apparently it's commonly used for the "frameless" windows models.

There is designated tools in the market but as I don't need it so often, I thought to try if 3d printed tool works. Thanks to the strong carbon fiber filament, I successfully loosen and tighten the bolt by this printed tool. I cannot guarantee that this tool works for you, as it depends on your car's condition and the strength of print. But if you want, feel free to try.

I made 2 versions for this wrench. A "full teeth" version and fewer teeth one.

Full version provide more engagement but I felt a little hard to fit it in limited working space in the door.

I posted a picture of the bolt for reference. The diameter of the bolt is approx. 60.2 -60.3 (it may differ due to tolerance).

I designed these model to fit the bolt with small clearance with diameter 60.9. I would say the tool needs something like diameter of 60.8-61.0 for

easy but good fitment. However, please note that you may need to scale the model for printing due to printing condition or shrinkage of the material.

In my case, got a good result with 100% scale (with Extrudor Greentec PRO Carbon)

Printing Recommendation

- Layer height: 0.2 - 0.3 mms
- Nozzle: 0.4 or 0.6 mm
- Perimeter: 15 - 20 (to ensure certain wall for enough strength)
- Infill: 50%
- Material: PA-CF or something strong
- Orientation and Support: See picture

It barely fit on the printing bed of my Prusa i3mk3s.

Model files

bmw-window-wrench.stl



bmw-window-wrench-full-teeth.stl



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