

Digital transformation in the fast lane

Ultimaker enables automotive customers to 3D print the parts they need – quickly and easily.

From assembly tools to custom under-the-hood parts, explore some of the ways that 3D printing is transforming the auto industry.



Assembly tool

- Fixes vehicle parts in place during assembly. Endlessly customizable for different parts or models
- Material: PLA
- Cost per part: \$3
- Lead time: 4 hours



Lamp quality gauge

- Check that features of the headlamps are manufactured to spec with a 3D printed gauge
- Material: Tough PLA
- Cost per part: \$15
- Lead time: 24 hours
- Conventional manufacturing with aluminum would cost \$1,000 - 5,000 and take up to 4 weeks



Siren cover

- Low-volume custom part for adapting a small number of vehicles for an emergency response role
- Material: ASA
- Cost per part: \$3
- Lead time: 6 hours



Lug nut socket sleeves

- Protects products during the assembly process
- Material: PETG
- Cost per part: \$0.50
- Lead time: 1 hour per socket
- Cost and time savings >95% compared to conventional manufacturing with ABS



Emblem press tool

- Print custom embossing tools for steel or aluminum sheet metal – ideal for custom cars and heritage refits
- Material: PET CF
- Cost per part: \$8
- Lead time: 10 hours
- Manufacturing with tool steel would cost \$200 and take up to 4 weeks



Radio transport tool

- Protects the car radio display during installation and eliminates manufacturing waste (e.g. individual foam protectors)
- Material: TPU 95A
- Cost per part: \$4
- Lead time: 18 hours



Oil cap

- End-use or replacement part that can be printed on demand. Resistant up to 80 °C (176°F) and chemical resistant
- Material: Polypropylene
- Cost per part: \$2
- Lead time: 3.5 hours



Fuse box functional prototype

- Accelerate assembly of prototype vehicles by 3D printing parts in hours rather than waiting on suppliers
- Material: Tough PLA and PVA
- Cost per part: \$49
- Lead time: 26 hours
- Outsourcing the same part in nylon would take weeks and cost >\$10,000

With Ultimaker's flexible and easy-to-use platform, automotive OEMs, suppliers, and aftermarket are able to increase production efficiency, bypass supply chain challenges, and increase sustainability.

Learn more and get a quote at ultimaker.com/automotive