

# Ducktail Spoiler – Toyota Paseo / Cynos

## 3D Printing and Resin Coating Guide

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## 1. Introduction


This guide describes the complete process for manufacturing a **Ducktail spoiler** for the **Toyota Paseo / Toyota Cynos**, designed to be **3D printed** and subsequently **coated with resin** to achieve a durable, automotive-grade finish.

The project was developed as a **DIY solution**, offering a cost-effective and highly customizable alternative to traditional aftermarket spoilers, while maintaining a clean and OEM-inspired aesthetic.

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## 2. Vehicle Compatibility

- **Model:** Toyota Paseo / Toyota Cynos EL54
- **Body type:** Hatchback
- **Tailgate:** Original OEM tailgate

 **Note:** Always verify measurements before final printing. Minor adjustments may be required depending on the specific vehicle version.

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## 3. STL File

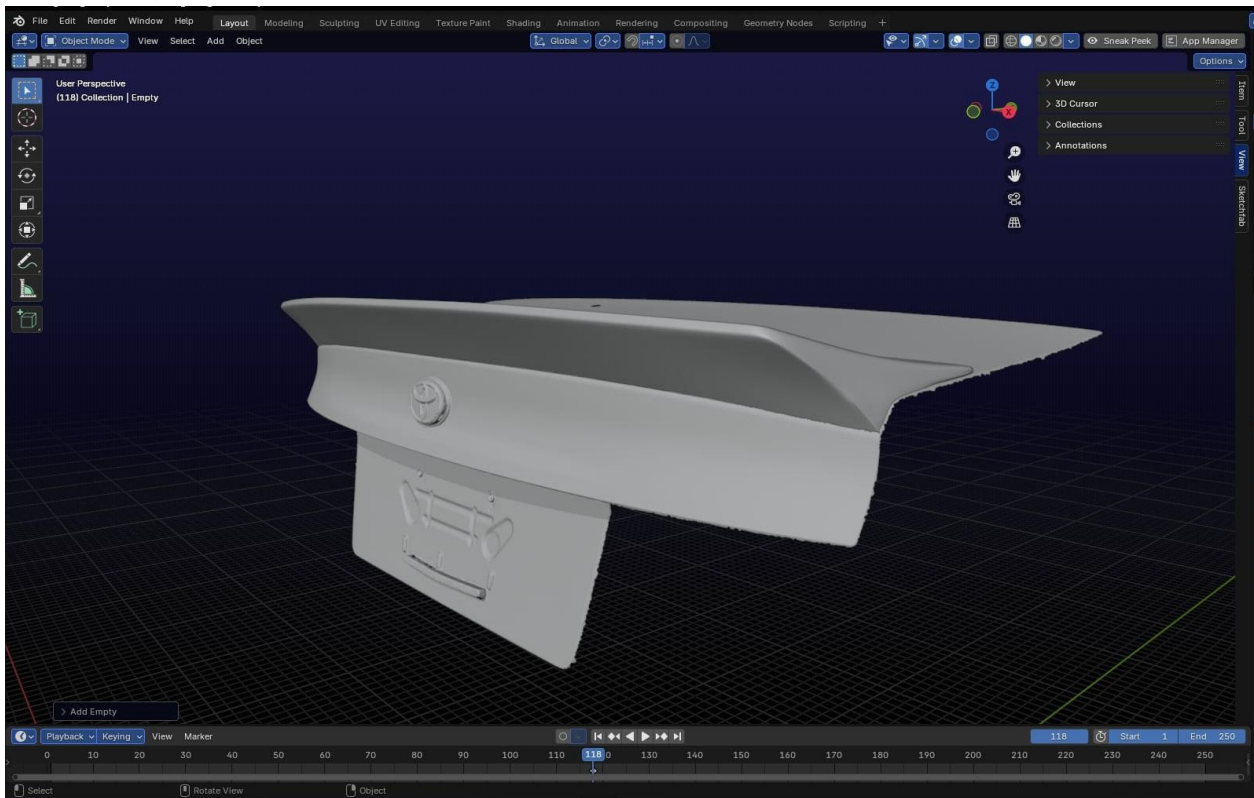
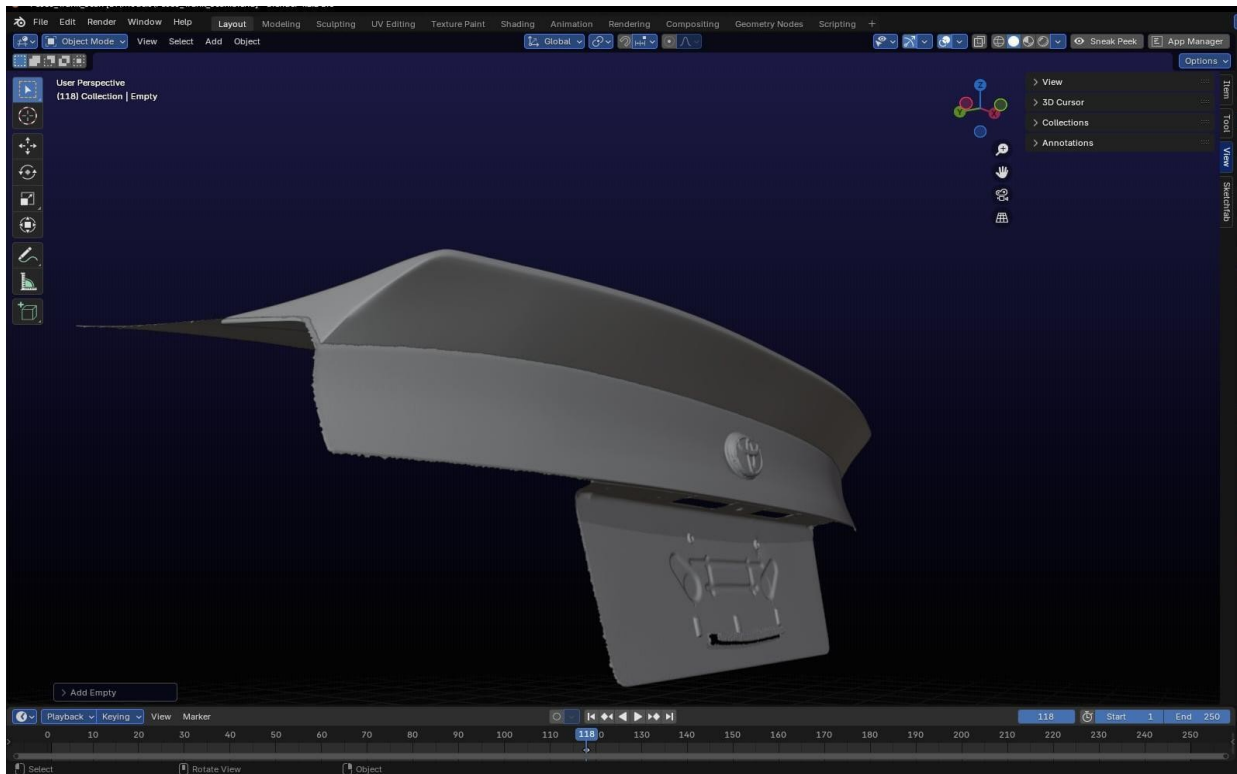
The spoiler is supplied as an **STL file** for 3D printing.

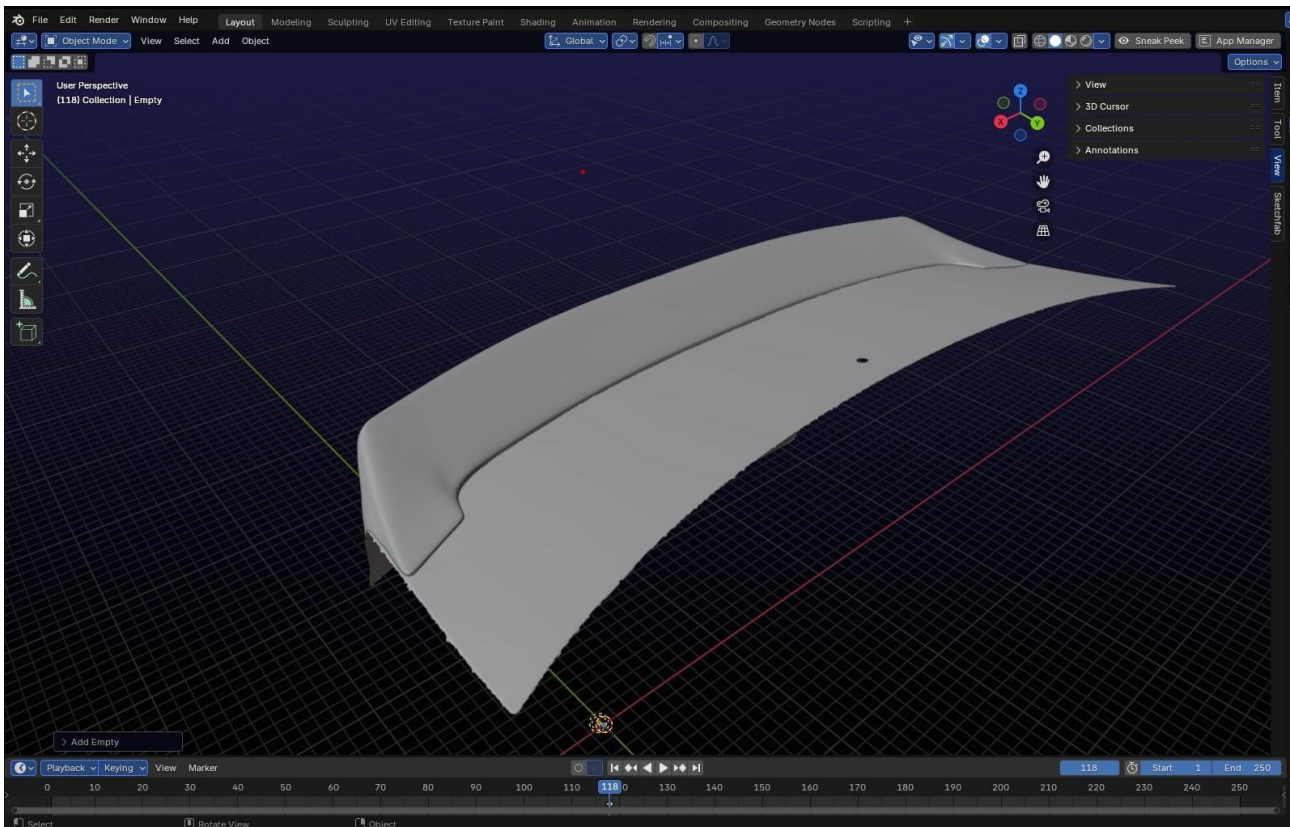
### Availability

- Paid STL file available at:  
<https://cults3d.com/en/3d-model/gadget/toyota-paseo-ducktail-el-54>
- STL file also available via Instagram: @tamashicollective
- For further information, contact: [info@tamashicollective.nl](mailto:info@tamashicollective.nl)

### Important:

- The STL file is **NOT included** in this repository
- This repository provides **documentation only**





## 4. 3D Printing

### Printer Type

- FDM 3D printer
- Can be printed as a single piece or divided into multiple sections depending on printer size

### Recommended Materials

- **PLA+** (prototype/testing only)
- **PETG** (recommended)
- **ABS / ASA** (advanced users)

### Suggested Settings

- Layer height: **0.2 mm**
  - Infill: **20–30%**
  - Wall thickness: **≥ 1.6 mm**
  - Supports: only if required, from the bottom side
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## 5. Resin Coating

Resin coating is essential to improve **strength, durability, and surface quality**.

### Required Materials

- Epoxy resin
- Fiberglass cloth
- Brushes or rollers
- Gloves, mask, and personal protective equipment (PPE)

### Procedure

1. Lightly sand the 3D-printed surface
  2. Apply the first coat of resin
  3. Lay the fiberglass cloth
  4. Apply additional resin layers
  5. Allow full curing according to resin specifications
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## 6. Finishing

After resin coating, the spoiler must be properly finished.

### Steps

- Fill imperfections with body filler
  - Progressive sanding (120 → 240 → 400 → 800 grit)
  - Apply primer
  - Paint or wrap as desired
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## 7. Vehicle Installation

### Mounting Methods

- Automotive double-sided tape (e.g., 3M)
- Polyurethane adhesive
- Screws (at the vehicle owner's discretion)

## Recommendations

- Thoroughly clean the mounting surface
  - Test-fit and verify alignment before final installation
  - Allow adequate curing time before vehicle use
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## 8. Common Issues and Tips

- **Print warping:** increase wall thickness or change print orientation
  - **Air bubbles in resin:** work slowly and use rollers to remove trapped air
  - **Imperfect alignment:** perform dry fitting before final mounting
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## Disclaimer

This guide is provided for informational purposes only.

The author is not responsible for any damage to vehicles or persons resulting from the use of the information contained in this document.

Always check local regulations before installing aftermarket components.