

TOM'S 76871- TPA16-# GR Yaris Rear Roof Wing

Installation & User Guide

Thank you for purchasing the Toms Rear Roof Wing (hereafter referred to as the Wing). Below are the instructions for installing this product. Please follow them carefully.

This installation manual is intended for individuals with skills equivalent to a Level 3 Automotive Service Technician. If you have questions about the terminology, please refer to the service manual. Note that product specifications and included components may change without notice for improvements.

This product cannot be installed on unregistered vehicles. Please ensure the vehicle is registered before installation.

Be sure to give this manual (installation/user guide) to the customer who will use the product.

■ **Product Number & Compatible Vehicles:** This product is compatible with the following vehicles. (As of May 2021)

*For the latest compatibility information, please refer to the website. (<https://www.tomsracing.co.jp/>)

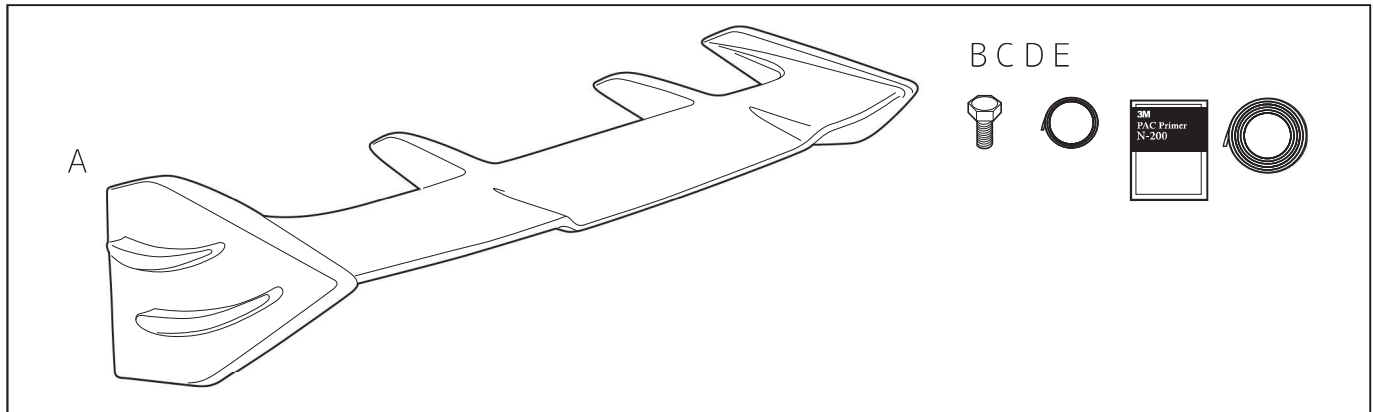
Product Number	Paint Color	Remarks
76871- TPA16-W	Platinum White Pearl Mica <089>	2020.9~ GR Yaris [1# Series] *Cannot be used in conjunction with Toyota genuine accessories or other companies' aero parts.
76871- TPA16-B	Precious Black Pearl <219>	
76871- TPA16-Z	Base Material	

■ **Components:** This product is composed of the following parts. Please ensure there are no missing or damaged items.

No.	Part Name	Quantity	Remarks
①	Rear Roof Wing	1	
②	Bolt (M5 × 20)	4	
③	PF Sheet (T2mm × 5mm × 1m)	1	
④	Primer (N-200)	1	
⑤	Double-Sided Tape (10mm × 0.8mm × 2m)	1	

*Upon receiving the product, immediately check that the main unit is not damaged and that all accessories are included.

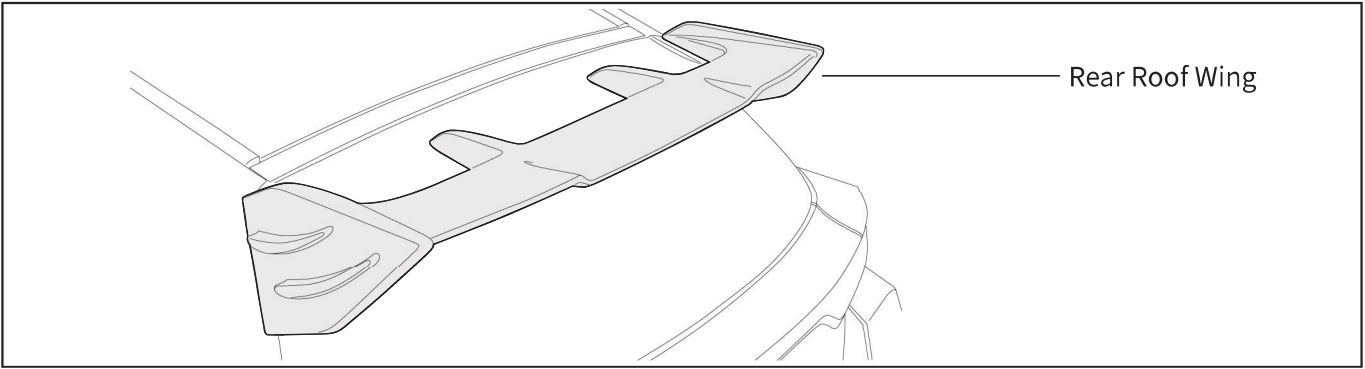
■ **Components:** This product is composed of the following parts. Please ensure there are no missing or damaged items.



■ Tools, Protective Gear, and Consumables Needed for Installation

- General Tools
- Tools for Modification (Scissors, Cutter, Awl, etc.) and File
- Electric Drill (Bit: 8mm) and Safety Glasses
- Work Gloves, Protective Sheet, Protective (Masking) Tape, Masking Tape
- White Gasoline or Isopropyl Alcohol (IPA)
- Clean Cloth

■ Installation Diagram



■ **Installation Precautions** (for installers): Please read before beginning work to ensure a safe and secure installation.

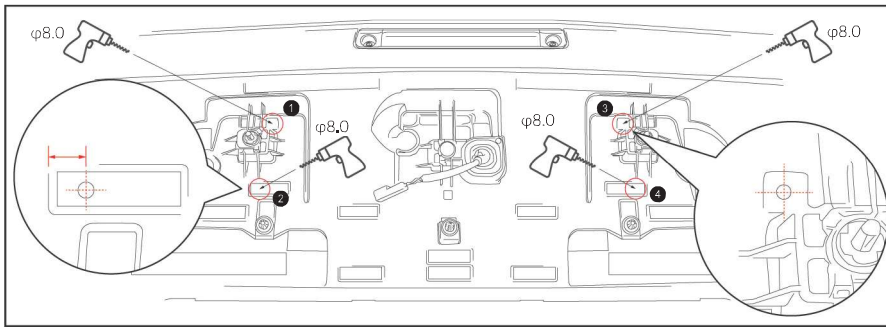
- **Warning** Not following these instructions and incorrect installation or handling may pose life risks, or could result in serious injury.
- **Notice** Not adhering to precautions and incorrect installation or handling can lead to accidents, injury, or vehicle damage.
- **Notice** Before installation (or painting for unfinished products), ensure you check the product thoroughly.
After installation (or painting), exchanges will not be accepted.
- **Advice** This section contains information you should know for efficient work.

 Do Not Do

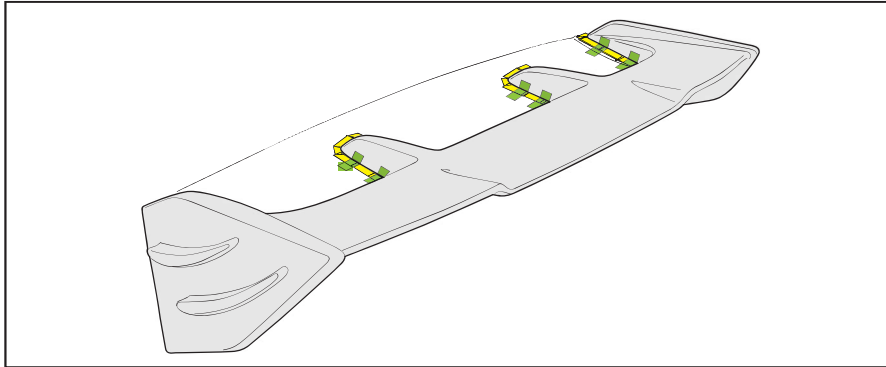
 Must Do

- **Warning**
 -  **Modifying or installing this product on non-compatible vehicles can lead to serious accidents or malfunctions. Do not attempt this under any circumstances.**
 -  Installation and replacement of this product should be done according to the repair manual (Toyota Motor Corporation) and this document's **precautions. Ensure you follow these while working**
 -  During installation, **make sure to tighten securely following the specified torque** . Insufficient tightening may lead to parts falling off, causing serious accidents or malfunctions.
- **Caution**
 -  Before installing this product, **ensure all components (see table on P1) are present and check for damage or defects. Claims for issues discovered after painting or installation may not be accepted** in some cases.
 -  Installation must be carried out by **two people** .
- Regarding Degreasing Work**
 -  When performing degreasing work, **use a clean cloth with white gasoline or isopropyl alcohol (IPA) to ensure proper degreasing** .
 -  **Do not use body coating agents, paint cleaners, degreasing cleaners, thinners, or similar solvents during degreasing**
- Regarding Double-Sided Tape**
 -  If you skip degreasing, the double-sided tape may peel off even if adhered .
 -  Double-sided tape **cannot be reused once removed after sticking, as adhesion strength decreases** .
 -  The double-sided tape's adhesive power significantly decreases at temperatures below 20°C. Insufficient temperature may lead to peeling.
 -  Ensure the tape is pressed firmly with at least 49N (5kgf/cm²) (enough to slightly shake the vehicle). **Insufficient pressing may result in tape peeling** .
 -  **Avoid washing, water contact (including wiping), or direct exposure for 3 to 5 hours** after installation.
- Painting Unfinished Products**
 -  This product requires pre-treatment before painting. Always begin with a primer coat.
 -  When painting this product, **mask the entire surface of the double-sided tape** .
 -  During paint drying, **ensure the heating temperature does not exceed 40° C** . Temperatures above 40°C can deform the product.
- After Installation**
 -  After installing, **confirm there is no interference between this product and the vehicle** .
 -  **Some parts moved the battery's negative terminal, perform system settings and check** after **completing the work**
 -  The specified vehicle **Follow the repair manual (issued by Toyota Motor Corporation) to inspect, adjust, and set each part** .

■ Rear Roof Wing Installation



- ① Follow the repair manual published by Toyota Motor Corporation to remove the roof wing from the vehicle.
- ② Using the left diagram as a guide, drill four 8mm holes.

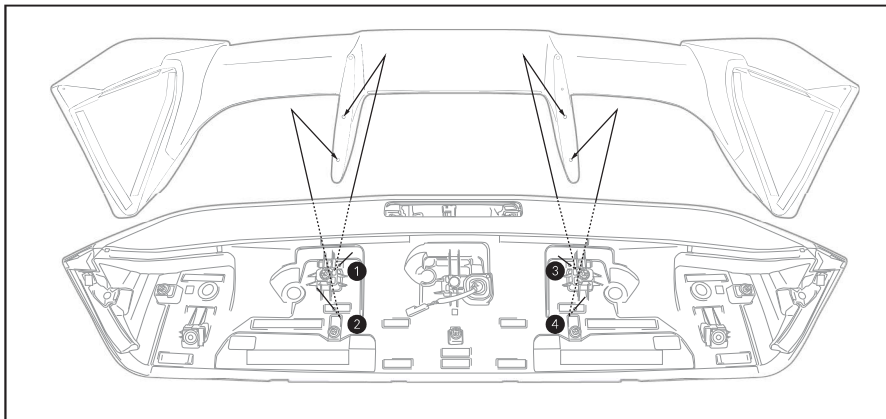


- ② Align Wing A with the roof wing removed in step ①, and mark the mounting position with masking tape or similar.

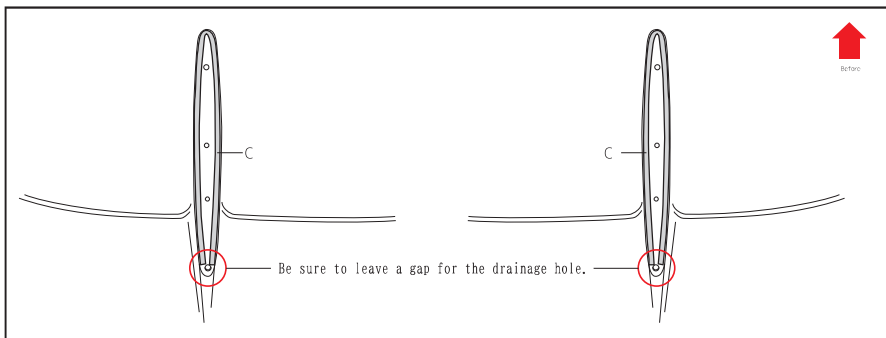


Be careful not to let Wing A fall off.

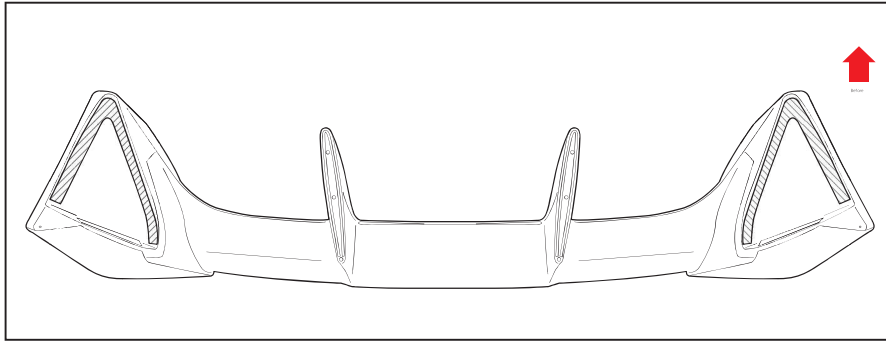
Note



- ③ Make sure there is no misalignment between the holes made in step ① and the mounting holes on Wing A.



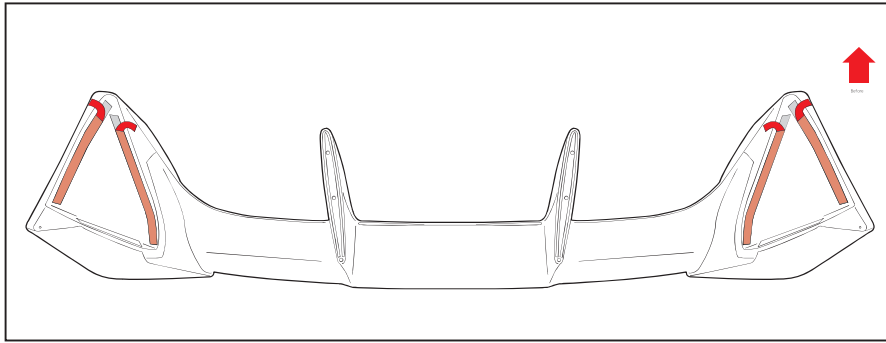
- ④ Refer to the left diagram to attach the C-PEF sheet to Wing A.



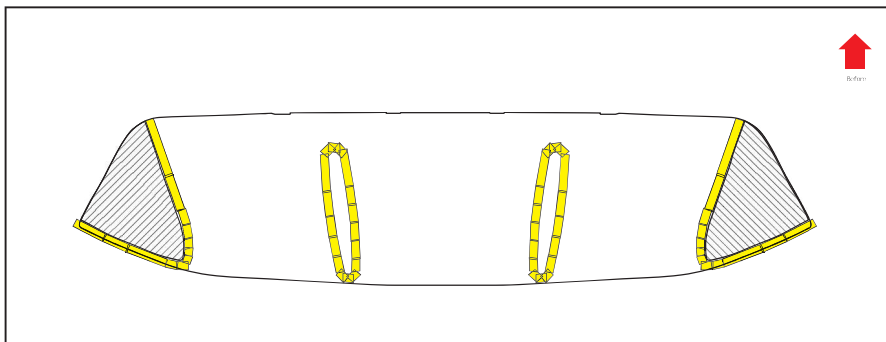
- ⑤ After cleaning the shaded area, apply B primer following the diagram on the left.



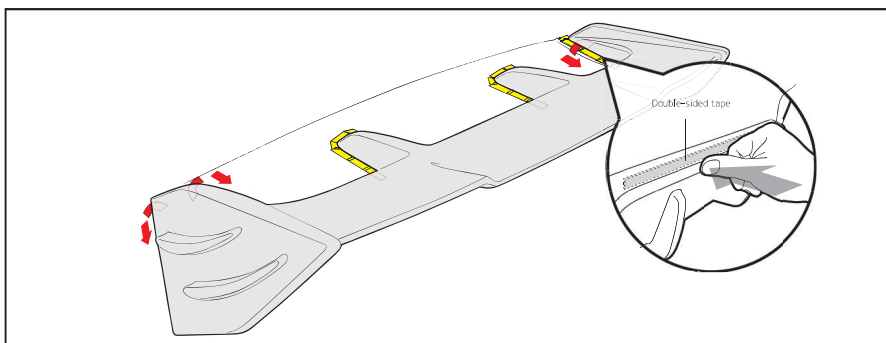
When using primer, follow the 3MPAC Primer N200 instruction manual.
Standard drying condition: 23°C for 10 minutes to 3 hours. Ensure it dries completely without dust or water droplets. If the temperature is below 15°C, use a heater. Wipe off any excess primer with alcohol to prevent discoloration of the painted surface.



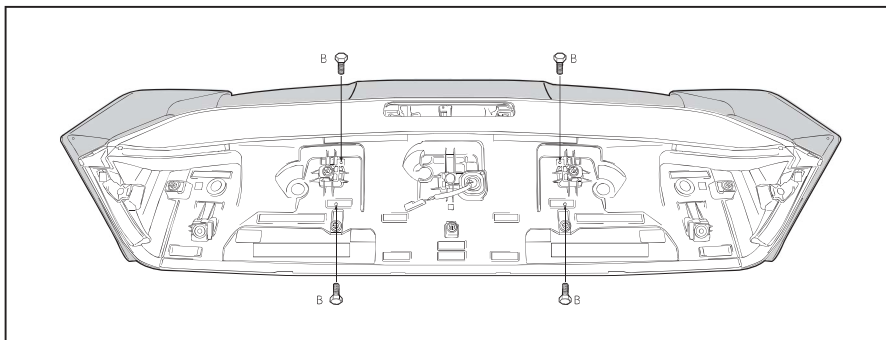
- ⑥ Using the diagram on the left, attach E double-sided tape, peel off about 50mm of the backing paper, and fold it outward.



- ⑦ After cleaning the shaded area of the genuine roof wing, apply B primer.



- ⑧ Slowly remove the release paper while pressing the double-sided tape onto the roof. Use a pressure of [49N (5kgf/cm²)]. A slight movement of the vehicle is a good indicator. Ensure the entire adhesive surface is pressed evenly.



- ⑨ Use B bolts to secure A wing to the vehicle's roof wing.

- ⑩ Restore the vehicle roof wing.

■ Post-Installation Checks and Precautions



Notice

- 1: **A** Ensure the wing is securely attached to the vehicle.
- 2: Check that there are no signs of peeling or lifting on the product.

It takes about 3 to 5 hours for the adhesive strength of double-sided tape to stabilize. Avoid washing the car for at least 3 hours, and ensure no strong vibrations or wind pressure during this time. Inadequate pressing may cause lifting or peeling, potentially leading to accidents.

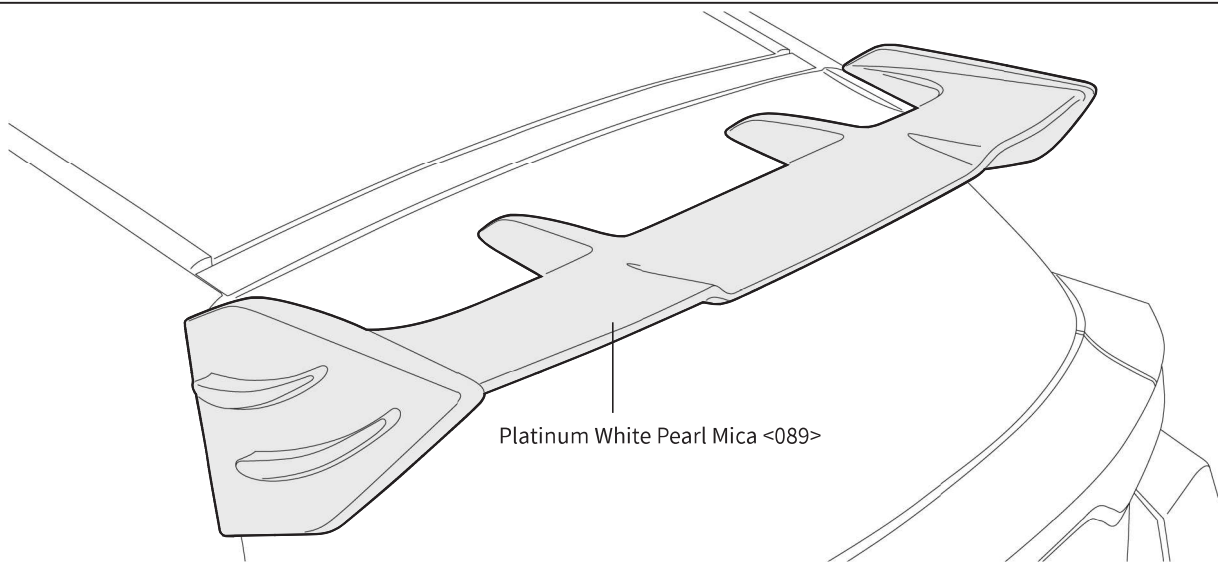
■ Painting Steps for Bare Products



Before painting, always test-fit the product to ensure there are no issues.

Notice Exchanges cannot be accepted after painting.

- ① Please clean off any dirt, dust, or debris from the surface to be painted.
- ② To prevent uneven paint and pinholes, wet sand the surface until the gel coat loses its shine, and roughen it up before painting.
- ③ Use white gasoline or isopropyl alcohol (IPA) to carefully degrease the surface, then apply a primer.
- ④ Apply the paint. Make sure the drying temperature does not exceed 40 degrees to avoid any product deformation.



Painting Example

Platinum White Pearl Mica <089>

*The above is based on our demo car painting instructions.



Notice

This product is made of FRP. Please use suitable paint and methods.

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