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Toyota PW301-42000

Toyota Genuine RAV4 Cross Bars Instruction Manual

Model: PW301-42000

Brand: Toyota

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and proper installation, operation, and maintenance of your Toyota Genuine RAV4 Cross Bars (Part Number PW301-42000). These cross bars are specifically designed for Toyota RAV4 Touring models from 2019 onwards. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

- Always ensure cross bars are securely fastened before driving.
- Do not exceed the maximum load capacity of **80 kilograms (176 lbs)**. Overloading can cause damage to the vehicle and the cross bars, and may lead to unsafe driving conditions.
- Distribute the load evenly across the cross bars.
- Regularly check the tightness of all fasteners, especially after driving on rough roads or at high speeds.
- Be aware of increased vehicle height and potential wind resistance when carrying cargo on the roof. Adjust driving speed accordingly.
- Refer to your vehicle's owner's manual for additional information regarding roof load capacity and driving with roof-mounted accessories.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 2 x Toyota Genuine RAV4 Cross Bars (Front and Rear)
- 4 x Mounting Brackets
- 1 x Set of Fasteners (bolts, washers)
- 1 x Allen Key Torque Wrench

- 1 x Instruction Manual (this document)
- 4 x Keys for locking mechanism

Note: If any parts are missing or damaged, do not proceed with installation. Contact your Toyota dealer or customer support.

4. SETUP AND INSTALLATION

The installation process is designed for easy clip-on attachment. It is recommended to have a step stool for easier access to the roof rails.

4.1 Preparation

1. Ensure your vehicle is parked on a level surface and the engine is off.
2. Clean the vehicle's roof rails where the cross bars will be mounted to ensure a secure fit.
3. Identify the front and rear cross bars. They may be different lengths or have specific markings.

4.2 Mounting the Cross Bars

1. Carefully place the front cross bar onto the vehicle's existing roof rails. Position it according to your vehicle's specific mounting points or desired load distribution.
2. Attach the mounting brackets to the cross bar and roof rail. Ensure they are correctly aligned.
3. Insert the fasteners and hand-tighten them initially.
4. Repeat steps 1-3 for the rear cross bar.
5. Using the provided Allen key torque wrench, tighten all fasteners to the specified torque settings. The torque wrench is designed to prevent over-tightening. Listen for the click indicating proper torque.
6. Once all fasteners are tightened, gently push and pull on each cross bar to confirm it is securely attached and does not move.
7. Lock the cross bars using the provided keys to prevent theft and ensure stability.



Image: Close-up view of the cross bar mounting mechanism, showing how it clamps onto the vehicle's roof rail. This illustrates the secure attachment method.



Image: A Toyota RAV4 with the genuine cross bars already installed on its roof, viewed from the side. This shows the overall appearance of the product when fitted to the vehicle.

5. OPERATING INSTRUCTIONS (USAGE)

Once installed, your Toyota Genuine RAV4 Cross Bars provide a versatile platform for carrying various cargo accessories.

5.1 Attaching Cargo

- Use appropriate cargo carriers (e.g., bike racks, ski/snowboard carriers, cargo boxes) that are compatible with cross bars.
- Ensure all cargo is securely fastened to the cross bars and does not obstruct your view or interfere with vehicle operation.
- Distribute weight evenly and place heavier items closer to the center of the vehicle.
- Always adhere to the maximum load capacity of **80 kg**.



Image: A vehicle with cross bars and a bicycle mounted on a bike rack. This demonstrates the use of cross bars for transporting bicycles.



Image: A vehicle with cross bars and skis/snowboards mounted on a ski carrier. This illustrates the use of cross bars for transporting winter sports equipment.



Image: A Toyota RAV4 with cross bars and a roof cargo box installed. This shows the use of cross bars for carrying additional luggage or gear in a cargo box.

5.2 Driving with Cross Bars and Cargo

- Drive cautiously, especially when cornering, braking, or in windy conditions.
- Be mindful of overhead clearances, such as in garages, car washes, or low bridges.
- Increased wind noise may occur, particularly at higher speeds.
- Fuel efficiency may be reduced due to increased aerodynamic drag.

6. MAINTENANCE

- **Regular Inspection:** Periodically check all mounting points, fasteners, and the cross bars themselves for any signs of wear, damage, or looseness. Tighten fasteners as needed.
- **Cleaning:** Clean the cross bars with mild soap and water. Avoid abrasive cleaners or solvents that could damage the finish.
- **Storage:** If the cross bars are not in use for an extended period, consider removing them to reduce wind noise and improve fuel economy. Store them in a dry, safe place.
- **Lock Mechanism:** Lubricate the lock cylinders periodically with a graphite-based lubricant to ensure smooth operation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Cross bars feel loose after installation.	Fasteners not tightened sufficiently.	Re-tighten all fasteners using the provided torque wrench until the click is heard. Ensure proper alignment.
Excessive wind noise.	Improper installation; cargo not aerodynamic; natural aerodynamic effect.	Verify correct installation and tightness. Ensure cargo is streamlined. Some wind noise is normal with roof-mounted accessories. Consider removing when not in use.
Keys do not turn in lock.	Lock mechanism dirty or corroded.	Apply a small amount of graphite lubricant into the keyhole and try again. Do not force the key.
Cannot attach cargo carrier.	Incompatibility; incorrect mounting.	Ensure your cargo carrier is compatible with Toyota Genuine Cross Bars. Refer to the cargo carrier's instructions for proper attachment.

8. SPECIFICATIONS

- Model Number:** PW301-42000
- Compatibility:** Toyota RAV4 Touring models, 2019 onwards
- Material:** Alloy Steel
- Color:** Silver/Black
- Item Weight:** 8 Kilograms (approx. 17.6 lbs)
- Product Dimensions (L x W x H):** 21 x 130 x 21 cm (approx. 8.3 x 51.2 x 8.3 inches)
- Maximum Load Capacity:** 80 Kilograms (176 lbs)
- Attachment Type:** Easy clip-on, vehicle-specific fit
- Foldable:** No

9. WARRANTY AND SUPPORT

As a Toyota Genuine Part, these cross bars are typically covered by Toyota's standard parts warranty. Please refer to your purchase documentation or contact your authorized Toyota dealer for specific warranty terms and conditions.

For technical assistance, missing parts, or warranty claims, please contact your local authorized Toyota service center or the dealer from whom you purchased the product. Provide your vehicle's VIN and the cross bar model number (PW301-42000) when seeking support.