

[Manuals.plus](#) /

› [JOYTUTUS](#) /

› JOYTUTUS Roof Rack Cross Bars Instruction Manual for Jeep Grand Cherokee 2011-2021

JOYTUTUS A1317-05321-BK

JOYTUTUS Roof Rack Cross Bars Instruction Manual

Model: A1317-05321-BK

[Contents](#) [Installation](#) [Operation](#) [Overview](#) [Compatibility](#) [Package](#)
[Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. PRODUCT OVERVIEW

The JOYTUTUS Roof Rack Cross Bars are designed to provide additional cargo capacity for your vehicle. Constructed from high-grade aluminum and premium plastic, these cross bars are rated to carry up to 300 lbs (136 kg). They are suitable for transporting various items such as roof bags, bike carriers, skis, kayaks, ladders, and luggage. The design features an adjustable length for a secure fit and an aerodynamic profile to minimize wind noise and drag.



Image: A Jeep Grand Cherokee equipped with JOYTUTUS roof rack cross bars and a roof cargo box, demonstrating expanded storage capacity.

2. VEHICLE COMPATIBILITY

These roof rack cross bars are specifically designed for:

- **Jeep Grand Cherokee 2011-2021** models with Grooved Side Rails.

This includes the following trims: Limited, Overland, Upland, Trailhawk, and Summit. Please ensure your vehicle has grooved side rails for proper installation.



Image: A visual guide indicating compatible Jeep Grand Cherokee models (2011-2021) with grooved side rails, highlighting specific trims like Limited, Overland, Upland, Trailhawk, and Summit.

3. PACKAGE CONTENTS

Please verify that all components are present before beginning installation:

- Front Cross Bar (1)
- Rear Cross Bar (1)
- Installation Hardware (bolts, nuts, rubber strips)
- Key (for locking mechanism)
- Installation Manual



Image: A diagram illustrating the front and rear cross bars with their respective lengths (44.09 inches for front, 43.31 inches for rear) and an image of the included hardware and manual.

4. INSTALLATION INSTRUCTIONS

The JOYTUTUS roof rack cross bars are designed for easy installation without drilling. Follow these steps carefully:

4.1. Preparation

- Identify the front and rear crossbars. The front bar is typically longer.
- Ensure your vehicle's roof and side rails are clean and free of debris.
- Gather all included hardware.

4.2. Attaching the Cross Bars

1. **Adjust Length:** Loosen the bolts on each end of the cross bar. Adjust the bar length to fit your vehicle's roof width. Ensure the bolt and bracket remain connected.
2. **Position Brackets:** Place the bracket into the grooved side rail of your vehicle.
3. **Tighten Bolts:** Hand-tighten the bolts to secure the cross bars to the side rails. **Do not use an electric drill** to avoid cross-threading. Ensure all bolts are tightened evenly and securely.
4. **Lock Covers:** Once secured, close and lock the protective covers on the ends of the cross bars using the provided key.



Image: A close-up view demonstrating the adjustable length feature of the cross bar, showing how both sides can be adjusted to fit the roof width.

Product Components

44.09 inch

Front Bar

43.31 inch

Rear Bar

Included Hardware

JOY TUTUS
USAGE GUIDELINES
FOR OUTDOOR-READY BAR

NOTE: Please ensure the vehicle is completely clean and dry in the area the part is to be installed.
1. Ensure the vehicle is properly supported and the weight is evenly distributed on the roof.
2. The weight of the cargo should not exceed the vehicle's weight capacity.
3. The weight of the cargo should not exceed the vehicle's weight capacity.
4. The weight of the cargo should not exceed the vehicle's weight capacity.

KIT CONTENTS:

Part	Quantity
A	1
B	1
C	1

INSTALLATION METHOD:

NOTE: The weight of the cargo should not exceed the vehicle's weight capacity.

Step 1: Position the bar on the roof.

Step 2: Tighten the hardware.

Step 3: Lock the covers.

Image: A visual guide detailing the three quick installation steps: 1. Position Bars, 2. Tighten Hardware, and 3. Lock Covers, illustrating the secure clamp-on design for vehicles with raised side rails.

4.3. Installation Video Guide

Your browser does not support the video tag.

Video: An official JOYTUTUS installation guide demonstrating the setup of the roof rack cross bars on a Jeep Grand Cherokee (2011-2021 model). This video provides a visual walkthrough of the installation process, including adjusting the bars, securing them to the vehicle's grooved side rails, and locking the covers.

5. OPERATING INSTRUCTIONS

Once installed, your JOYTUTUS roof rack cross bars are ready to support various cargo accessories. Always adhere to the maximum load capacity and ensure cargo is securely fastened.

5.1. Load Capacity

The cross bars have a maximum load capacity of **300 lbs (136 kg)**. It is crucial to never exceed this weight limit. Always refer to your vehicle's official roof load limit, as it may be lower than the cross bar capacity.



Image: A Jeep Grand Cherokee with JOYTUTUS roof rack cross bars carrying a large cargo bag, emphasizing the heavy-duty load capacity of 300 lbs (136 kg).

Note: Always follow your vehicle's official roof load limit.

5.2. Cargo Types

These cross bars are compatible with a wide range of rooftop cargo carriers and accessories, including:

- Roof boxes
- Bike carriers
- Kayak/Canoe carriers
- Ski/Snowboard carriers
- Luggage and cargo bags
- Ladders and other equipment

Heavy-Duty Load Capacity



Roof Box



Luggage



Kayak



Bike

Lab test results for reference only.
Please follow your vehicle's official roof load limit.

300 lbs

Tested Load
(136 kg)



Image: A visual representation of the versatility of the JOYTUTUS roof rack system, showing multiple carry options including a roof box, bicycle, kayak, skis, and camping gear.

5.3. Aerodynamic Design

The cross bars feature a streamlined profile designed to reduce wind drag and noise during travel, contributing to improved energy efficiency.

One Rack System. Multiple Carry Options



Image: A diagram illustrating the aerodynamic design of the cross bar, showing airflow over its streamlined profile to reduce drag and wind noise.

Your browser does not support the video tag.

Video: An official JOYTUTUS video showcasing the roof rack series, demonstrating its use in various scenarios, including carrying snowboards on a vehicle in a snowy environment. This video highlights the product's versatility and design features.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your roof rack cross bars:

- **Check Tightness:** Periodically inspect all mounting bolts and connections to ensure they remain tight. Loose connections can lead to instability and potential damage.
- **Clean Regularly:** Clean the cross bars with mild soap and water to remove dirt, road grime, and salt, especially after long trips or exposure to harsh weather.
- **Inspect for Damage:** Before each use, check the cross bars for any signs of wear, cracks, or damage. Do not use if damaged.

- **Lubrication:** If the locking mechanism becomes stiff, apply a small amount of graphite lubricant to the keyhole.
- **Seasonal Removal:** If the cross bars are not needed for extended periods, consider removing them to minimize wear and tear and potentially improve fuel efficiency.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Whistling Noise at Speed	Airflow over the cross bars or gaps in the mounting.	Ensure all components are installed correctly and tightly. Check for any gaps between the cross bars and the mounting feet. Some users have reported success by applying small strips of tape over suspected venturi openings on the underside of the bars to disrupt airflow.
Cross Bars Feel Loose	Mounting bolts are not sufficiently tightened.	Re-tighten all mounting bolts evenly. Ensure the brackets are properly seated in the vehicle's grooved side rails.
Difficulty Locking/Unlocking	Debris in the lock mechanism or lack of lubrication.	Clean the lock mechanism and apply a small amount of graphite lubricant to the keyhole.

8. PRODUCT SPECIFICATIONS

Feature	Detail
Model Number	A1317-05321-BK
Compatible Vehicle	Jeep Grand Cherokee 2011-2021 (with Grooved Side Rails)
Material	Aluminum, Metal, Plastic
Color	Black
Load Capacity	300 lbs (136 kg)
Item Dimensions (L x W x H)	44.88 x 9.45 x 3.94 inches
Item Weight	8 pounds
Mounting Type	Roof Rack (Clamp-on to existing grooved side rails)
Included Components	Cross bars, installation hardware, key

9. WARRANTY AND SUPPORT

JOYTUTUS provides a **1-year quality support guarantee** for this product, starting from the date of purchase. Additionally, a manufacturer warranty description of **180 days** is provided.

If you encounter any issues or have questions regarding the installation, operation, or maintenance of your roof rack cross bars, please contact JOYTUTUS customer support. Our team is available to assist you.

For support, please refer to the contact information provided in your product packaging or visit the official JOYTUTUS website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question