



TUNE<sup>®</sup>

Roof Gas Strut Replacement Guide

# REQUIRED TOOLS

Ratchet Strap

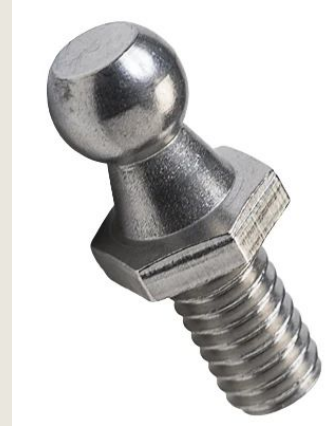


# Terminology

Roof Gas Strut



Ball Stud



Ball Socket End Fitting



Retaining Clip



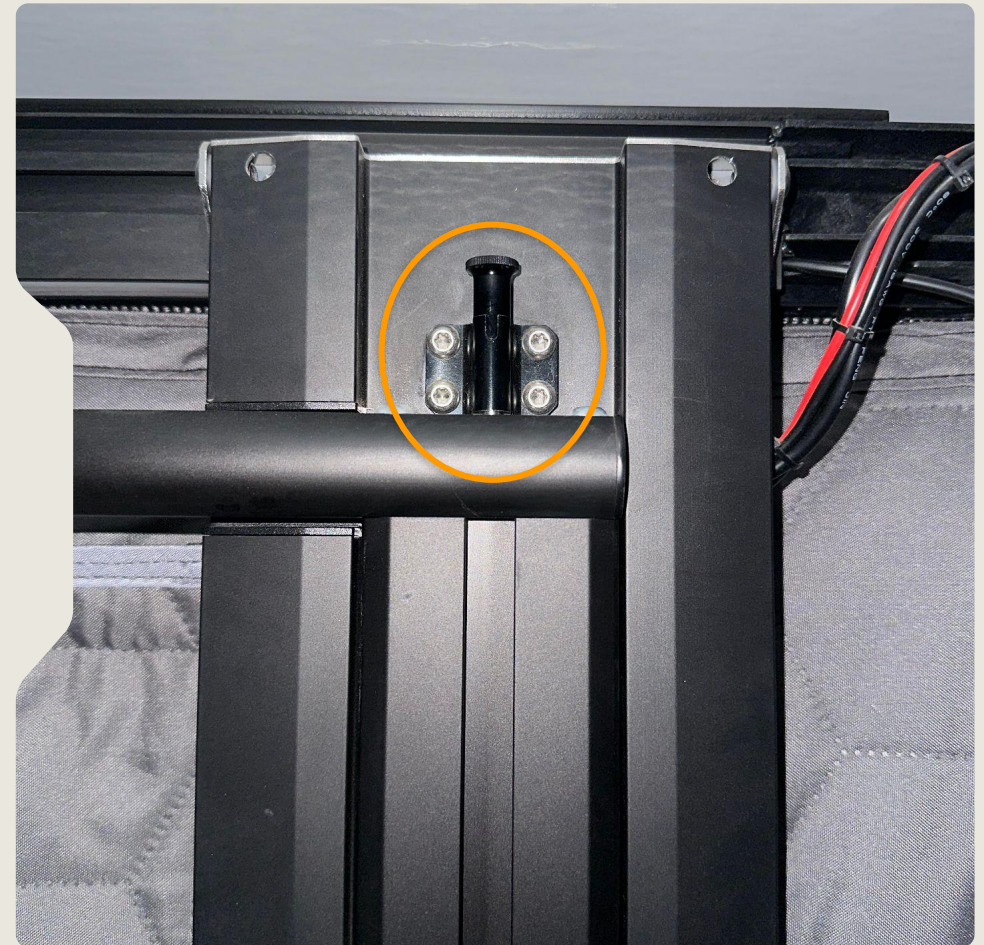
# 1. Prepare The Struts

1. Open cardboard box remove the roof gas struts and retainer clips. There should be two retainer clips per strut (one for each end).
2. Remove protective foam or other packaging from the struts.



## 2. Prepare the Camper

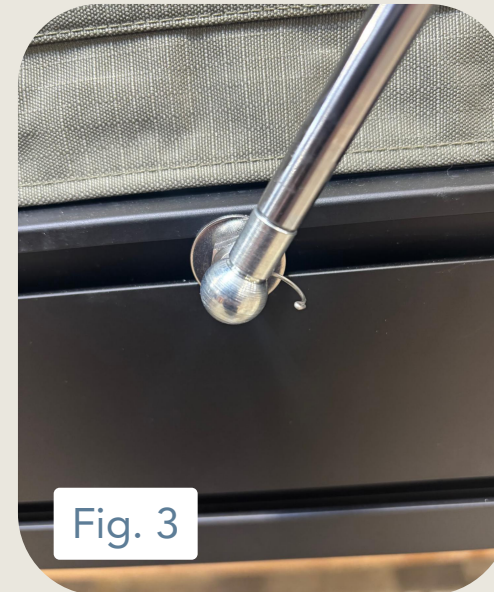
1. Raise the roof of the camper.
  - a. Get assistance from a second person if it is difficult to raise the roof up.
2. Engage the Lifting Arm Locking Pins in the front and rear.



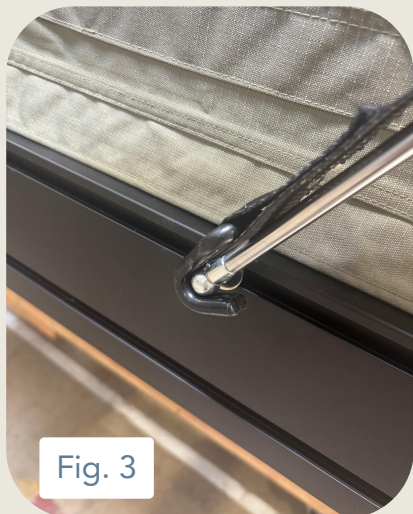
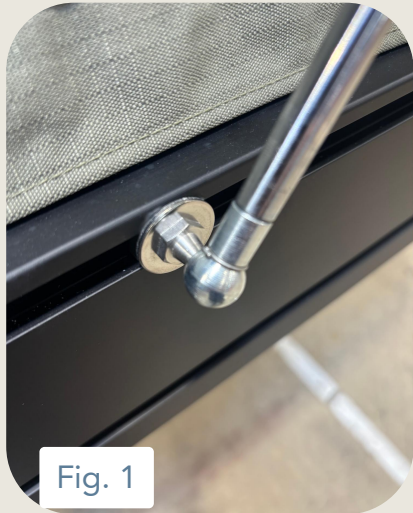
## 3. Roof Strut Removal

1. Decide which strut you are removing.
2. Remove the retaining clip from each end of the strut (Fig. 1, 2, & 3).
  - a. Unclip from around the collar, then slide out.
3. Once the retaining clips are removed pull the strut off of the ball stud on the camper (Fig. 4).

⚠ Only remove ONE strut at a time.



## 4. Roof Strut Installation



1. Place the thinner end of the strut onto the lower ball stud (Fig. 1).
  - a. Press the ball socket end fitting onto the ball stud.
  - b. Attach the retaining clip.
2. Using your hands (Fig. 2) or the ratchet strap (Fig. 3 & 4), compress the strut to shorten the total length.
3. Once the ball socket end fitting is aligned with the ball stud, press it on and add the retaining clip.
4. Once both retaining clips are attached properly, repeat steps 3 & 4 for any remaining struts.

⚠ Ensure all retaining clips are fully inserted and clipped around the collar. Do not adjust the location of any ball studs.

# Safety Disclaimer and Acknowledgment

By using the roof gas strut and its associated components, you acknowledge and agree to adhere to the following safety instructions and terms:

## Proper Installation and Hardware Tightening:

All hardware must be adequately tightened to ensure secure installation of the roof gas struts. Loose hardware may lead to improper installation, resulting in potential damage to the vehicle or injury.

Ensure that all fasteners are checked and tightened before use of the camper unit. Periodic inspection is recommended to maintain safety.

## Retaining Clip Engagement:

Retaining clips must be fully engaged around the collar of the ball socket end fitting to ensure the roof gas strut remains securely attached. Failure to fully engage the retaining clip may result in the roof gas strut detaching, leading to potential accidents, property damage, or injury.

## Responsibility and Indemnification:

By using this product, the user agrees to indemnify, defend, and hold harmless the manufacturer, distributor, seller, and their affiliates, employees, and agents from any claims, damages, injuries, or losses that result from improper use, installation, or failure to follow the provided safety guidelines.

This indemnity includes any legal costs and expenses incurred in defending against such claims, including those related to negligence, misuse, or failure to adhere to the product's instructions.