

Rocky Mountain Westy

Road Shower Support Brackets Installation Instructions



Introduction

Thank you for purchasing the Rocky Mountain Westy **Road Shower 4 Support Bracket Kit**. We pride ourselves in the products we develop and would not bring an item to market that we did not fully believe in.

The **Road Shower 4 Support Bracket Kit** allows you to mount your Road Shower 4-series on the rain gutter of your van instead of mounting it to your roof top cross bars. Having it mounted on the rain gutter keeps the road shower down low regardless if the top is popped or not. This makes refilling, pressurizing and even showering a much easier task. The spray nozzle will be much easier to access with its new lower position giving you more slack in the hose when showering and/or rinsing off your gear.

Van owners that want to purchase a Road Shower don't have to purchase a roof rack system as well in order to have the Road Shower installed. This **Road Shower Support Bracket Kit** eliminates the need for the roof rack system and the ability to accommodate a pair of Yakima/Thule Locking Knobs will help make your investment secure from theft!

Please note that the photos in these installation instructions, while typical of most installations, show a Road Shower 4L on an air-cooled van. The gutter profile on early vans is quite different from later models and more body preparation is needed for install. If you have an early Van, please see the special preparation instructions at the end of this manual.

Before You Get Started

It is recommended that you read through these instructions fully before beginning the installation process. This step will help you understand the entire process beforehand which will make the installation go smoothly.

Tools Required:

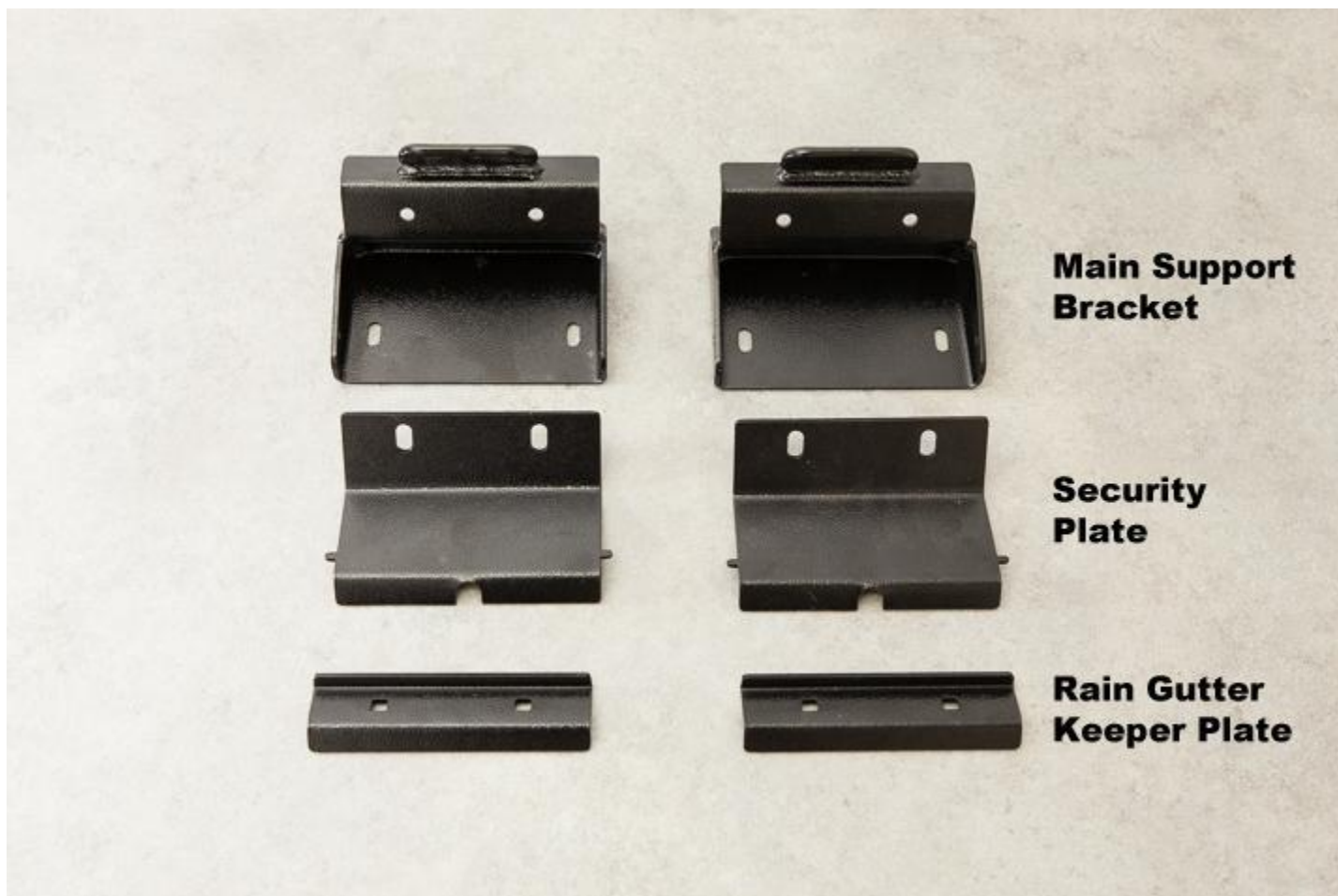
- ½” Socket
- 11mm Wrench
- 10mm Socket
- 5mm Hex Bit Socket
- Ratchet
- 6” Socket Extension
- Drill
- ¼” and 3/8” Drill Bit
- Center Punch
- Hammer
- Masking Tape
- Sharpie
- X-Acto Knife

Parts Included:

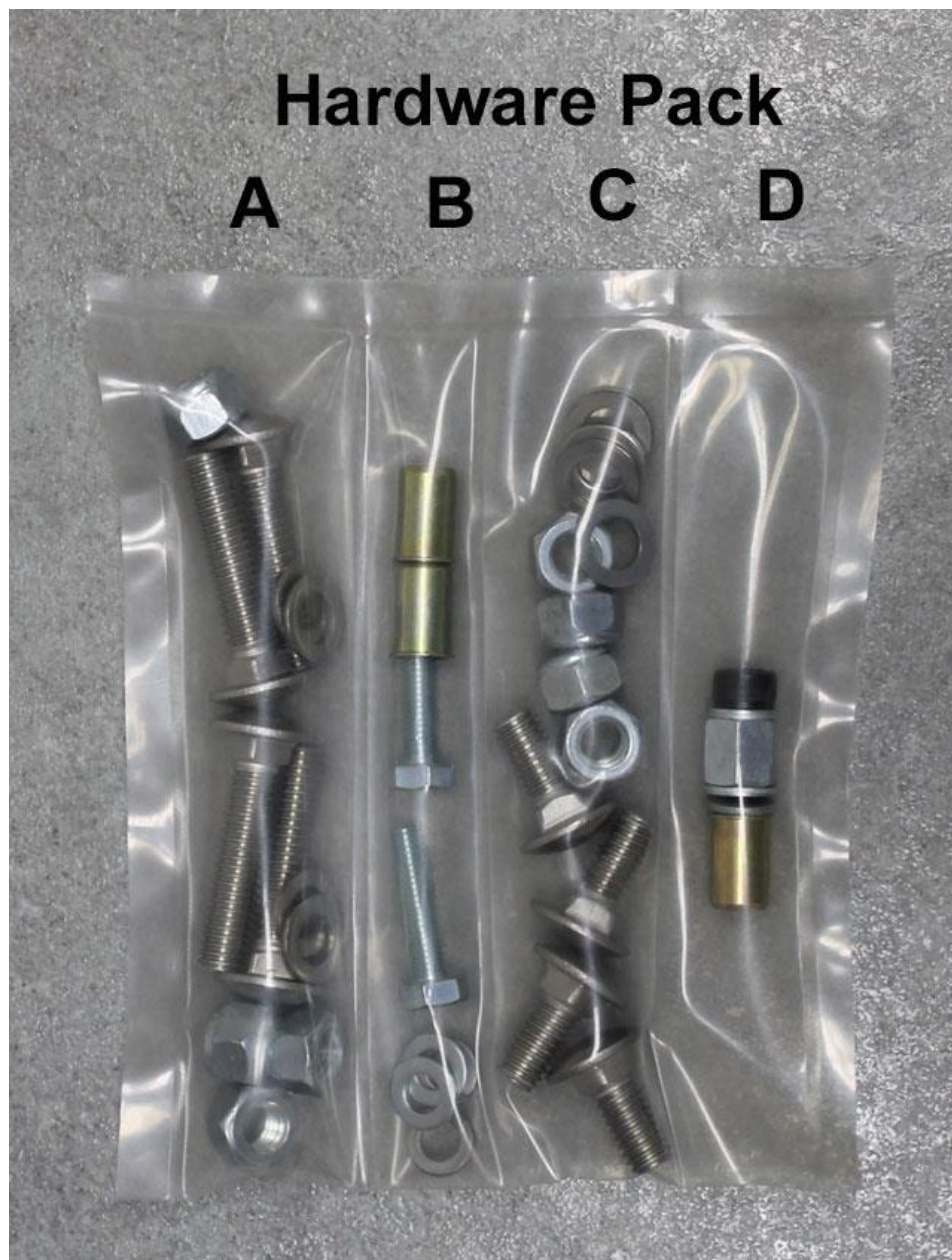
- Main Support Bracket (x 2)
- Security Plate (x 2)
- Rain Gutter Keeper Plate (x 2)
- Carriage Bolt (5/16x1.5 x 6 - Pack A)
- Flat Washer (5/16 x 6 - Pack A)
- Nylock Nut (5/16 x 6 - Pack A)
- Hex Head Bolt (6mm x 4 - Pack B)
- Flat Washer (6mm x 4 - Pack B)
- Lock Washer (6mm x 4 - Pack B)
- Rivet Nut (x 4 - Pack B)
- Carriage Bolt (5/16x.75 x 6 - Pack C)
- Rivet Nut Tool
- Spare Rivet Nut (x 1 - Pack D)

Supplied Parts & Hardware

The **Road Shower Support Bracket Kit** is made up of six pieces which make up to the two bracket system. The **Main Support Bracket**, the **Security Plate** and the **Rain Gutter Keeper Plate**.



Also included in the kit is a **Hardware Package**. This **Hardware Package** is broken up into four sections. Each section will be referenced throughout the course of the installation. The separation of hardware will help you with the installation.



Prepping Your Bracket Kit

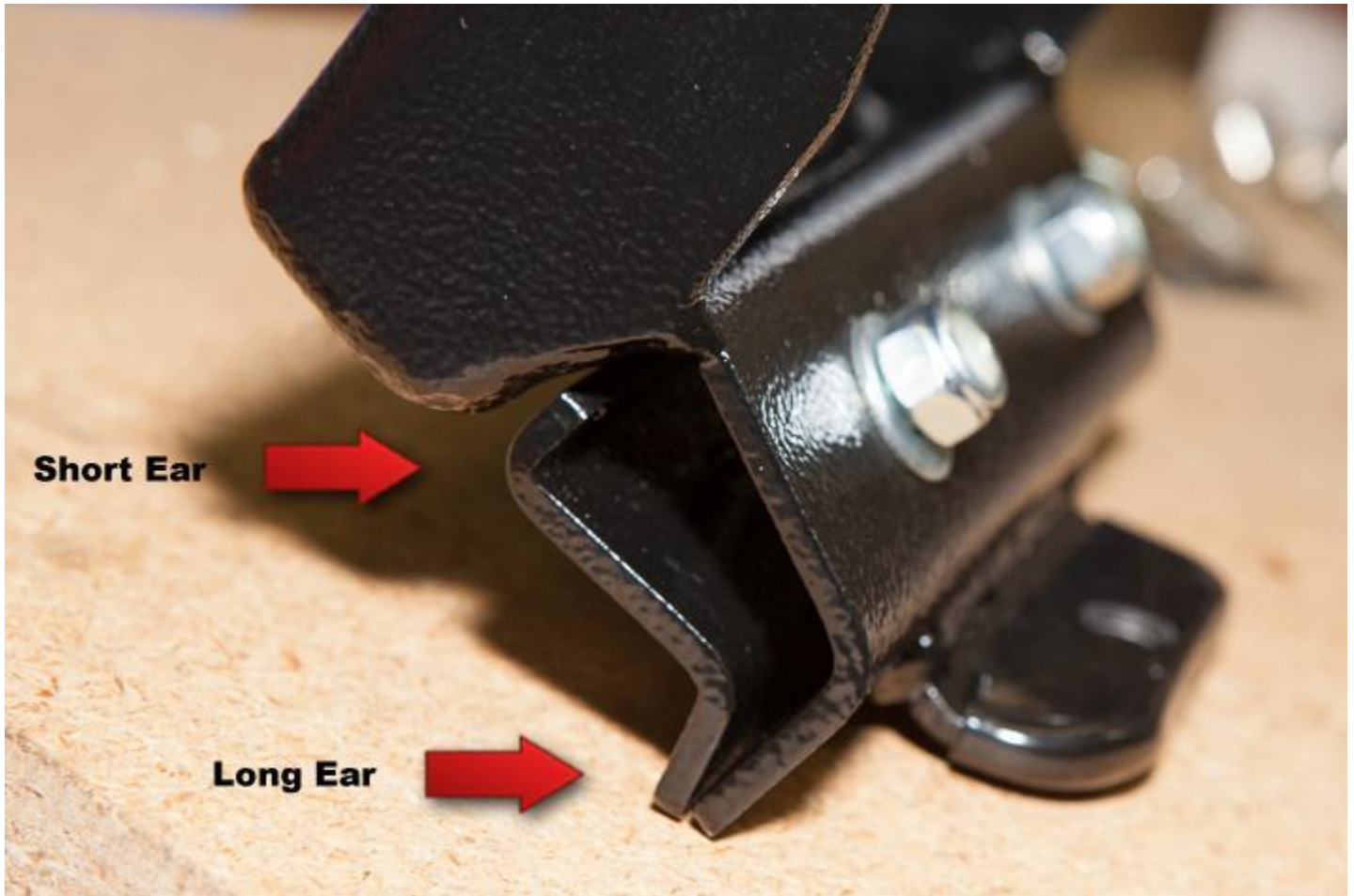
Each **Main Support Bracket** has a rubber covered foot which is there to help protect the paint of your van once installed. You will need to take an **X-Acto Knife** and cut the rubber cover exposing the holes in the plate within. The hole is located in the middle of the foot, push the tip of the **X-Acto Knife** through the rubber and simply let the blade of the knife follow the edge of the hole opening. Do this on from both sides of the foot on each of the **Main Support Brackets**.



The finished product should look like this. The rubber cover was cut from both sides exposing the mounting holes in the **Main Support Bracket** feet. This will allow a mounting bolt to be used without the interference of the rubber cover.



Take the **Rain Gutter Keeper Plate** and orientate it with the **Main Support Bracket** as shown. It is key that the short ear of the **Rain Gutter Keeper Plate** is towards the flat platform of the **Main Support Bracket** and the long ear is towards the foot with the rubber cover.



Use the contents of **Hardware Package A** in order to loosely bolt up the **Rain Gutter Keeper Plate** to the **Main Support Bracket**. The **Rain Gutter Keeper Plate** has two square holes in it which allow for the included **Carriage Bolts** to mount through in order to keep them from turning as you tighten the **Nylock Nuts** later in this installation. Loosely bolt up both sets of brackets.



Installing The Brackets

For this installation, we're installing the 82-inch long Road Shower 4L on the driver's side of the van. If you ordered the Road Shower 4 (55-inches) or Road Shower 4S (55-inches) you'll need to adjust your measurements so that the brackets are approximately six inches inboard from the ends of the Road Shower Unit.

NOTE: All the following measurements are from the rear of the door opening at the "B" pillar.



Front Mount: For the 4L, place a 12” long strip of **Masking Tape** horizontally from the “B” pillar toward the rear of the Van in to help protect the paint when drilling into the van. For the Road Shower 4 and 4S, place a 12” strip of masking tape centered at about 15” from the “B” pillar.



Rear Mount: The rear mount position is dependent on whether you'll be mounting a Rocky Mountain Westy side ladder on your van. The ladder location is adjustable front to rear between 43" and 67" as measured from the "B" pillar. You need to mount the rear Road Shower bracket outside this range of adjustment. We chose 69" for the for the rear mount of the installation of our 4L. If you have a 4 or 4S, determine the placement of your rear mount by the length of your shower and ladder position (if relevant).



We'll install the bracket closest to the front of the van first. Slip the loosely assembled **Main Support Bracket** and **Rain Gutter Keeper Plate** onto the rain gutter of the van.



Use a $\frac{1}{2}$ " **Socket**, **6" Socket Extension** and **Ratchet** in order to tighten down the **Nylock Nuts** with **Flat Washers**. This will help snug the bracket up to the rain gutter.

Now that the **Main Support Bracket** and **Rain Gutter Keeper Plate** are firmly in place we can locate the holes that we need to drill into the side of the van. Use a **Sharpie** or pencil to mark the center of the two holes in the **Main Support Bracket Foot**.



The reason we mark the hole **AFTER** tightening down the bracket assembly is to be certain that the **Rivet Nut** that we're about to install lines up correctly with the hole in the lower bracket once the bracket is tightly secured. Once marked, loosen the nylock nuts and slide the assembly down the gutter out of the way.

Using a **Center Punch**, indent the body of the van right where the mark is that you made with the **Sharpie**. This indentation will help your drill bit stay on course and not “walk” away from where the hole needs to be.



Use a **Drill** with a **3/8 Drill Bit** in order to drill into the van where indentation was made by the **Center Punch**. Be very careful during this step so that you don't scratch the side of your van. Slow and steady is key.



In **Hardware Package D** there are the pieces required in order to properly seat the **Rivet Nut**. The photo below shows the correct orientation of the **Allen Bolt**, **Flat Washer**, **Hex Sleeve** and **Lock Washer** in relationship to the **Rivet Nut** that you just placed into the hole drilled in your van.



Take one of the **Rivet Nuts** from **Hardware Package B** in slide it into the hole you just drilled. The shoulder of the Rivet Nut should be facing outwards.



Thread the **Allen Bolt** into the **Rivet Nut** and use a **Ratchet** and **5mm Hex Bit Socket** to tighten the **Allen Bolt** while using a **11mm Wrench** to hold the **Hex Sleeve** in place. As you tighten the **Allen Head Bolt**, a portion of the **Rivet Nut** inside of the van will collapse on itself making the **Rivet Nut** lock in place. Continue to tighten the **Rivet Nut** until you feel it collapse and lock on itself.

We've supplied a spare **Rivet Nut** in **Hardware Package D** in case you'd like to test the process on a spare piece of sheet metal in order to get a feel for when the **Rivet Nut** collapses and locks in place.



Once the **Rivet Nut** is set, remove the hardware you've used to set it in place. Your **Rivet Nut** should be nice and secure into the body of the van. This additional mounting location will help secure the **Road Shower Support Brackets** in place and help carry the load of a filled Road Shower.



Center the Road Shower bracket feet over the attachment points you just made in the body of your Van. Use a **10mm Socket, 6" Socket Extension** and **Ratchet** in order to tighten the nylock nuts. The insert the **Bolt, Lock Washer** and **Flat Washer** found in **Hardware Package B** into the **Rivet Nut**. Tighten into place.

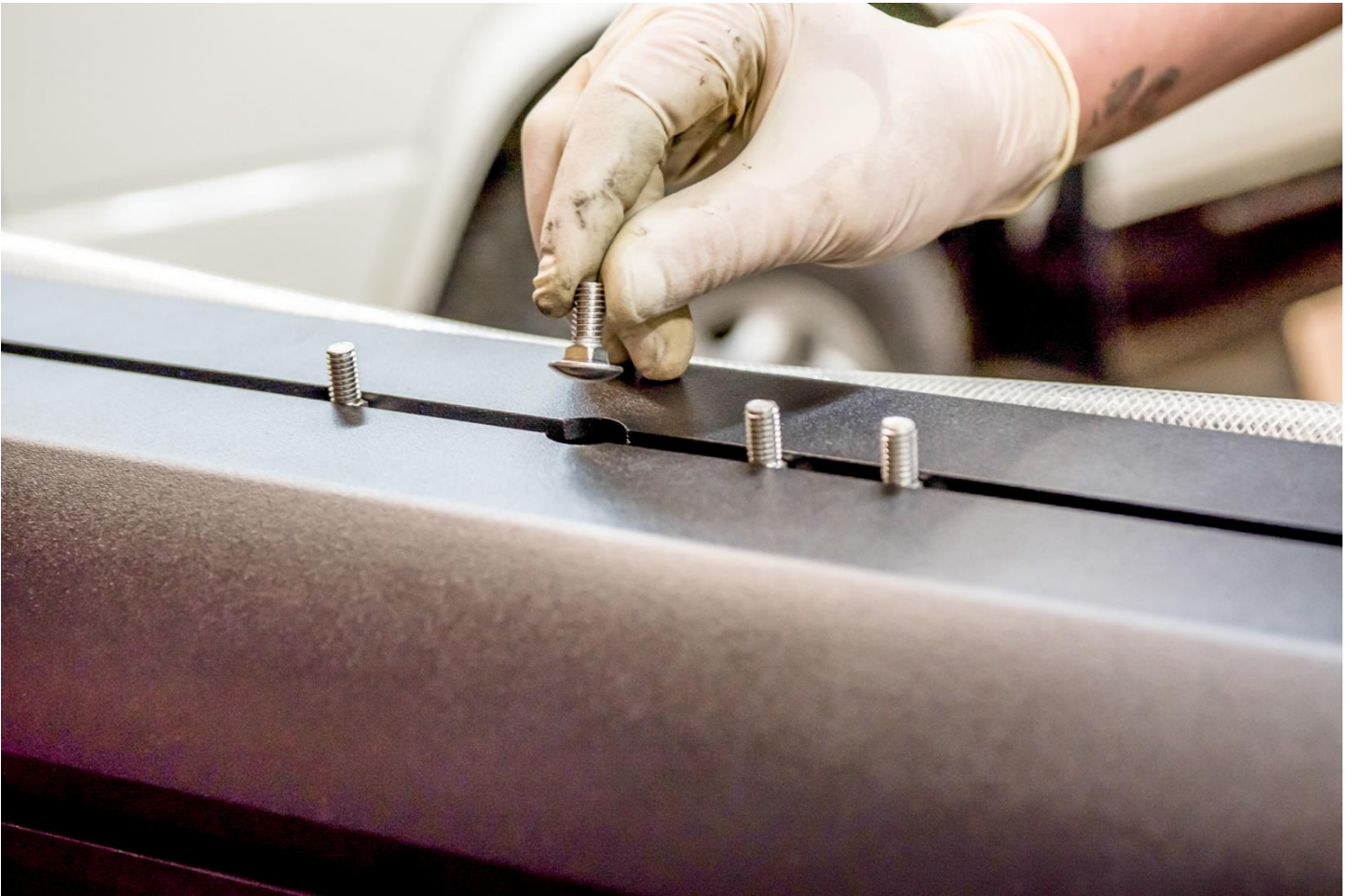


Complete this entire Install process for the rear **Road Shower Support Bracket**.

Installing The Road Shower

Place the **Road Shower** onto the two **Road Shower Support Brackets** you've installed. For this installation, the nozzle that the water hose connects to is located towards the front of the van.

There is a slot on the bottom of the **Road Shower** that runs the length of the cylinder. You'll notice that there is a hole in the center of this track. This is where you will slide all 4 **Carriage Bolts** included in **Hardware Package C**. The square shoulders of the **Carriage Bolts** will drop right into the slot on the bottom keeping the **Carriage Bolts** from rotating as you tighten them down.



Lift one end of the Road Shower up and slide **two 5/16x.75" Carriage Bolts** down so that they feed through the mounting holes on the top base plate of the **Road Shower Support Bracket**. Do this at both bracket locations so that all four **Carriage Bolts** feed through the **Road Shower Support Brackets**. A helper can be valuable here.



Center the Road Shower cylinder onto the two **Road Shower Support Brackets**. Once confident with the location, use a **1/2" Socket, 6" Socket Extension** and **Ratchet** in order to tighten the nylock nuts/flat washers found in your original Road Shower Kit.



Installing The Security Plate

Use a **1/2" Socket**, **6" Socket Extension** and **Ratchet** in order to remove the **Nylock Nuts** and **Flat Washers** in the Main Support Bracket. Lift the **Security Plate** over the bolt threads. Make sure the tabs in the plate are inserted into the holes in the **Main Support Bracket**.



Attach the flat washers and nylock nuts and use a ½” **Socket**, 6” **Socket Extension** and **Ratchet** to tighten.



One recommended option is to use a 5/16" Locking Knob onto one of the exposed **Carriage Bolts** to make your installation secure. This locking knob will keep thieves from being able to access any of the mounting hardware and makes your investment completely safe from theft. These can be obtained from most vendors that sell sport racks.



Complete the **Security Plate** install process for the second **Road Shower Support Bracket**.

If you do not have a 5/16" Locking Knob you can simply install the supplied **Nylock Nut** and **Flat Washer** as shown. Your Road Shower will be mounted but it will not be secure from theft until you mount a set of Locking Knobs to your installation.



Installation Complete

Congratulations! You have now finished the Rocky Mountain Westy **Road Shower 4 Support Bracket Kit** installation.



Now you can easily fill, pressurize and/or use your Road Shower easily even with the Top Popped in camping mode. The lower mounting configuration makes the Road Shower more usable in our opinion as well as it helps keep the 45lb setup off of the roof which means lifting the Pop Top is easier.

Thank you for your continuing support of Rocky Mountain Westy!

Special Instructions for Early Vans

If you have a Van between 1980 and 1983 (we've also seen occasional Vans into the 1984 model year) your rain gutter has a different profile than later vans. Modification to your gutter is necessary to use these brackets. You can determine if your Van has the early gutter profile by feeling the upper edge of the gutter. If a lip extends toward the Van and forms a "C" shape when viewed in profile, you have the early style gutter and must follow the following steps in preparation for bracket installation. Below is an image of an early rain gutter.



Late Style Gutter

The late style gutter is illustrated in the photo below. This style terminates in a vertical bend with **no lip headed back toward the Van**. No modification is needed to this style gutter for mounting the Road Shower brackets.



Early Style Gutter Modifications

If you've determined that you have early style gutters, you'll need to make the following modifications to the gutter in order to mount the Road Shower 4 Brackets.

First make your measurements as to where you'll be mounting the brackets on the Van (see main instructions for specs). The goal here is to remove the part of the gutter lip that curves back over toward the Van. We use a rotary air rasp but you can use your choice of tool.

Lay a piece of masking tape along the gutter and mark the edges of your main mount.



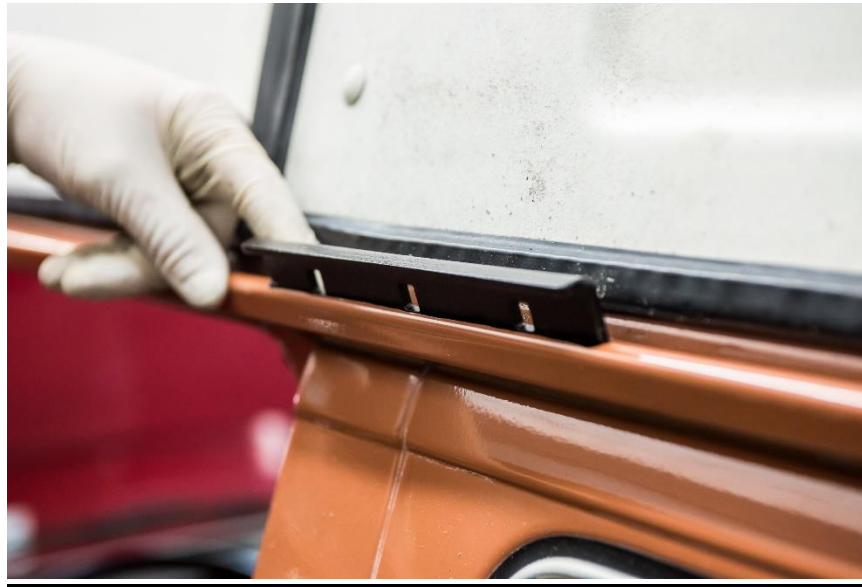
Carefully begin to file the gutter between your two marks. At this point you are just taking off the top inside lip of the gutter.



Here's what you should have when you are done.



Now we will be making small cutouts in the gutter to accommodate the mounting bolts. Hold the **Rain Gutter Keeper Plate** in the position in which it will be mounted and note that the outer edge of the gutter interferes with the bolt holes. This is the section of gutter that requires clearancing.



Mark the gutter in those spots....



...and use your rotary rasp to remove the interfering material.



Lastly, apply an enamel paint to seal the exposed metal from the elements. As the paint dries, you can move on to the second bracket area and repeat the steps above. When you are finished, head on over to the main section of the installation instructions and install your Road Shower.

Thanks for purchasing Rocky Mountain Westy products!