

Tune M1L Camper Jacks - Install Guide

REQUIRED TOOLS

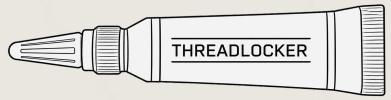
T40 Torx Driver



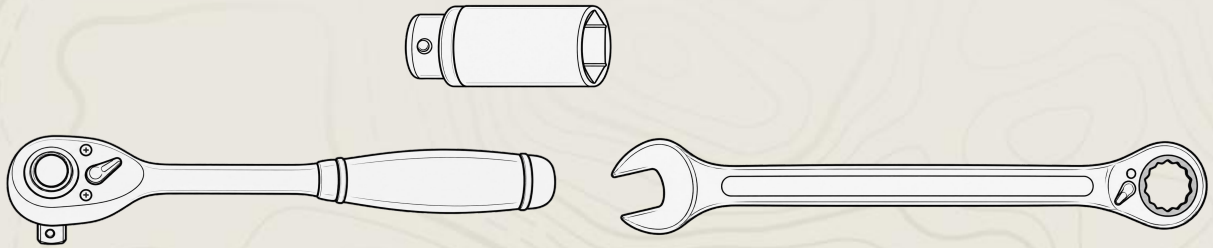
Torque Wrench with T40 Socket Bit



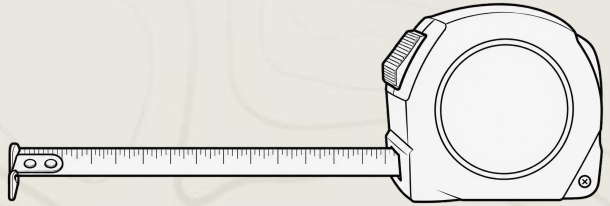
Loctite 243



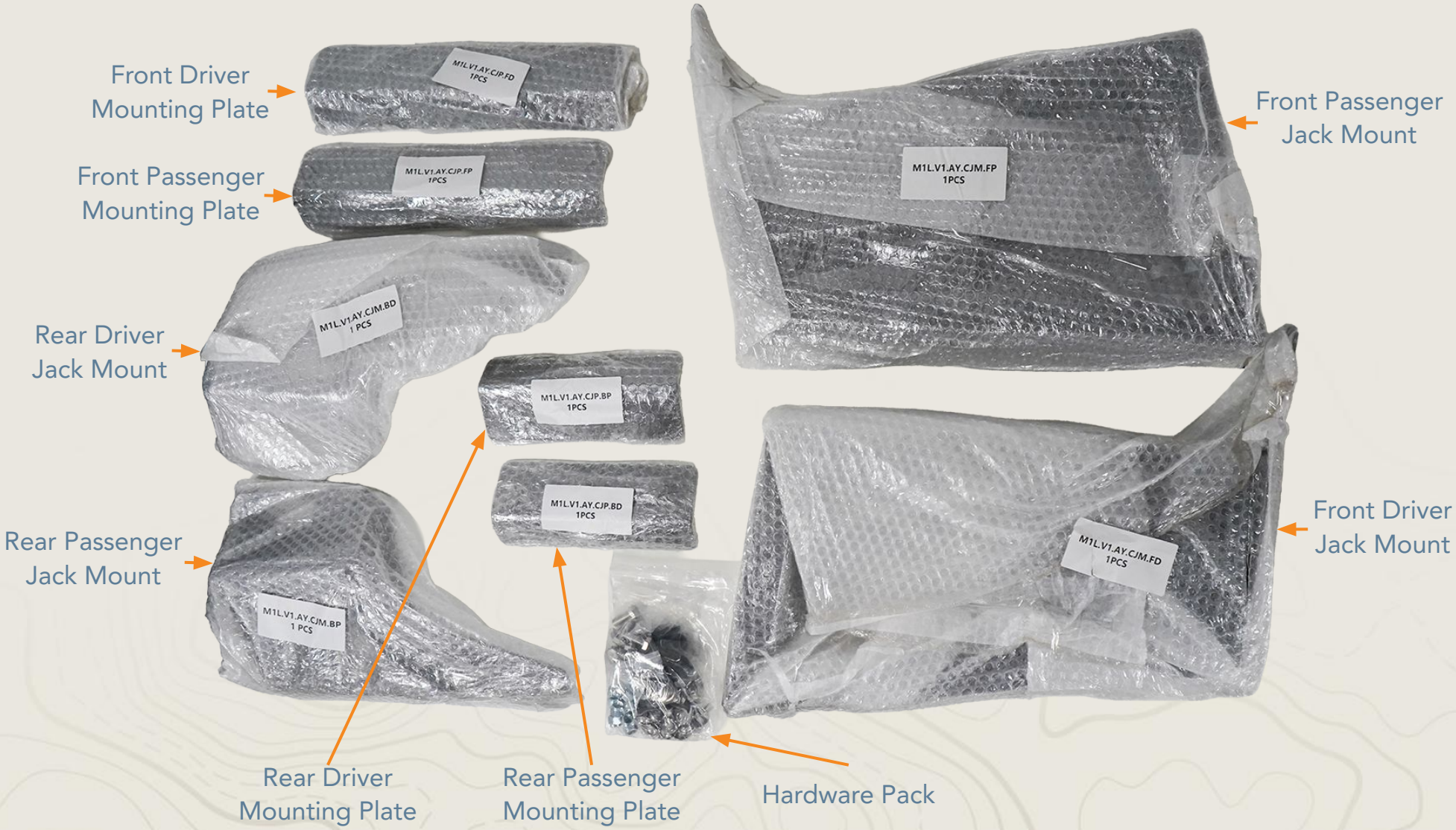
9/16 Socket and Combination Wrench



Tape Measure



What's in the Box?



What's in the Box?

Mounting Plates

Front Driver Mounting Plate



Front Passenger Mounting Plate



Rear Driver Mounting Plate



Rear Passenger Mounting Plate



Jack Mounts

Front Driver Jack Mount



Front Passenger Jack Mount



Rear Driver Jack Mount



Rear Passenger Jack Mount



What's in the Box?

(4) Camper Jacks



Mounting Hardware



Mounting Plate Hardware:

- (20) M8x10mm Cap Screws
- (20) M8 Hammer Nuts

Jack Mount Hardware:

- (4) M6 Thumb Screws
- (24) ⅜" SS Washers
- (12) ⅜" Nylock Nuts
- (12) ⅜" Hex Head Screws

Safety Guidelines for Camper Jack Usage

Before proceeding, please familiarize yourself with these important safety guidelines:

Never drive with the jacks attached:

Never drive your vehicle with the camper jacks attached. The jacks are designed for stationary use only. Driving with them installed can cause serious injury to people nearby and damage to your vehicle or others on the road.

Only the mounting plates should remain attached to the camper. The jacks themselves must be removed and stored safely before travel.

Never open the roof with the jacks deployed:

Never use the camper or open the roof while the jacks are deployed. Doing so creates instability that the jacks are not rated to handle, which can cause serious injury or damage to the vehicle.



Prepare:

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Uninstall:

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Reinstall:

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Adjust and Finalize:

→ PAGE 27

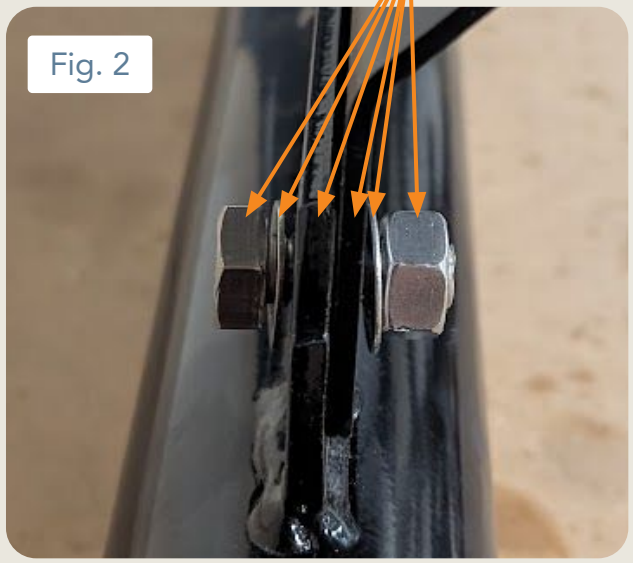
Assemble the Camper Jacks

1. Install the jack mounts using (Fig. 1 & 2) as a guide. Place a bolt through a washer, then through the camper jack, line up the jack mount on the other side of the camper jack and add a washer then a nylock nut onto the bolt.

2. Tighten this hardware stack on each assembly using your 9/16 socket and wrench until it is tight.



- Bolt
- Washer
- Camper Jack
- Jack Mount
- Washer
- Nylock Nut



Keep them Clear

Each jack and mount have a designated mounting location. There is a Front Driver's, Front Passenger's, Rear Driver's, and Rear Passenger's.

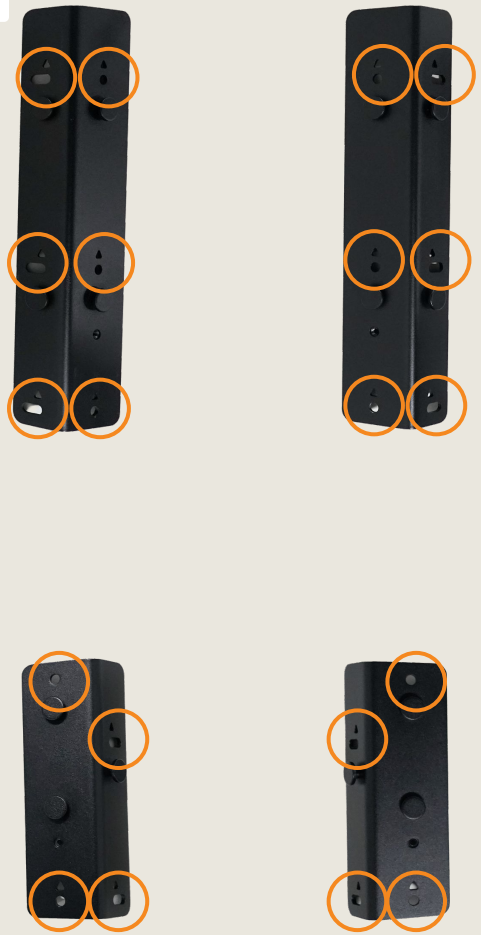
Prepare the Mounting Plates

1. Locate (20) M8x10mm cap screws and (20) M8 hammer nuts.

2. On each mounting plate, thread an M8 cap screw with a dab of Loctite 243 onto it into each mounting hole from the outside of the bracket into an M8 hammer nut on the rear and loosely thread them together.

3. Repeat this step for all (6) holes in the front mounting plates, and (4) holes in the rear mounting plates circled in (Fig. 1).

Fig. 1



Install the Mounting Plates

1. Determine which mounting plate goes on each corner of your camper.

2. Line each hammer nut up vertically so they will slide into the T-track, place them on the vertical profile of each corner of your camper, and hand tighten each cap screw until the hammer nut engages in the T-track.

3. Position each front mounting plate with the bottom edge of the corner brackets on your camper, and on the rear, align the bottom of the mounting plates 1.5” from the bottom edge of the corner brackets on your camper.

If You Have a Propane Tank Mount

You will need to fully remove the propane tank mount before installing the mounting plate on that corner of your camper. You can reinstall your propane tank mount with the mounting plate in place, but you must remove it to interface with and use the camper jacks.



Fig. 1

Install the Mounting Plates

1. Once your mounting plates are properly positioned along the vertical profile, torque each screw to 12 ft-lbs and ensure each hammer nut is properly engaged in the T-track.

2. You can now reinstall your propane tank mount (if applicable) following the instructions in the Tune Propane Tank Mount installation guide.



Fig. 1

Interface the Jacks with Mounting Plates

1. With each jack near the corresponding corner of your camper, you can line up the keyholes on the jack mounts with the studs, and slide the jack up to engage the stud.

2. Your thumb screw hole should now be lined up (circled in red, Fig. 1)


Fig. 1

Install the Jacks

1. With each jack in the correct corner, and the keys fully engaged, remove each thumb screw and insert it into the corresponding thumb screw hole into the mounting plate.

2. On the M1L, each camper jack will only have (1) thumb screw each.


Fig. 1


Fig. 2


Fig. 3


Fig. 4

Open Your Doors

Before mounting the front jacks, ensure that your truck doors that you need access to are open, or don't interfere with the jacks when deployed.

Disconnect Accessories

1. Ensure all accessories are disconnected between the camper and truck.

2. Remove any furniture, wiring, or any other items that could interfere with the removal of the camper from your truck. For any Tune products, reference the corresponding guide for best practices on uninstalling or installing the individual products.

3. Once all accessories are removed or disconnected, ensure your camper is closed and latched before proceeding.



Remove Camper Mounts - Rail Mounting

1. Loosen all (6) bolts and disengage the T-track block from the rail's T-track.
2. Fully remove the T-track block from the bolt, then slide the bolt and washer out of the mounting bracket.
3. Leave each mounting bracket in place, but repeat these steps for each one.



Fig. 1

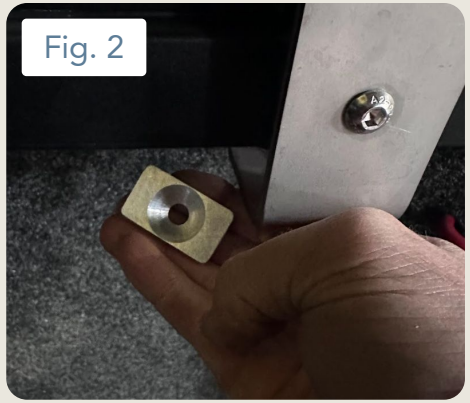
Keep Your Hardware Safe

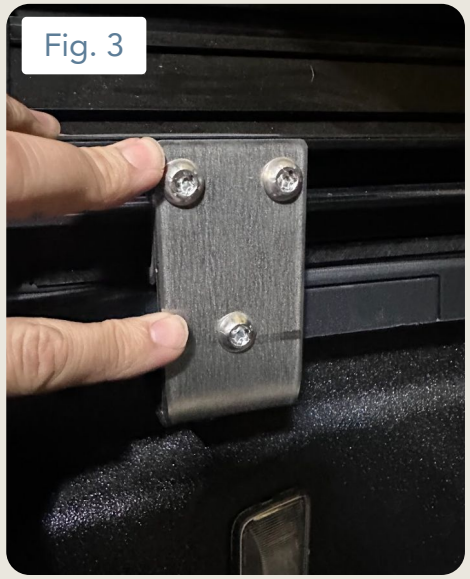
Ensure you keep all of the hardware you removed in a safe place for your future reinstall.

Remove Camper Mounts - Standard Mounting

1. Loosen the jam nut, circled in (Fig. 1), before then loosening the main bolt enough to slide the landing pad out.
2. Remove the landing pad under each main bolt, and set it aside for your future reinstall.
3. Remove the (3) bolts on the front of the mounting bracket
4. Remove the entire mount and set the assembly aside with your landing pads for your future reinstall. Ensure you note which clamp was in each location as some are different sizes and need to mount back into the specific location.


Fig. 1


Fig. 2


Fig. 3

Keep Your Hardware Safe

Ensure you keep all of the hardware you removed in a safe place for your future reinstall.

Unmount the Camper

1. Slowly and carefully raise the jacks one at a time, ensuring you keep the camper level and only raise each one a little each time.

2. Keep an eye out for anything that could still be connected between the camper and your truck when raising it. Your truck suspension will lift some before the weight of the camper is fully on the jacks and released from the truck rail.

3. Once you have verified that all points of the camper are at least 3” above your truck rails and no items remain connected between your truck and the camper you are ready to proceed.



Fig. 1

Maintain Level

Make sure that the camper stays relatively level as you raise each jack. If one jack begins to rise off the ground, lower that jack to maintain stability. Once the camper is at the correct height, ensure all jacks are maintaining stable ground contact and the camper is properly balanced before proceeding.

Unmount the Camper

1. Make note of the height of each jack, and the distance from the top of your truck rail to the ground in each corner for reference when reinstalling your camper.

2. Slowly and carefully drive the truck out from under the camper ensuring you do not make any turning movements until you are fully out from under the camper.



Fig. 1

Have a Spotter

Best practice when driving your truck out from under your camper is to use a trusted spotter. Have all of your windows down, music off, and listen to your spotter's commands. Look for any movement in the camper that could indicate a snag somewhere and proceed with extreme caution.

Store the Camper

Short-term Storage

For short periods of time, it is ok to store the camper with the jacks lowered to their bottom position slowly and safely.

Long-term Storage

For more long-term storage, lower the camper slowly and safely onto a stable platform until all the weight is removed off of the jacks.

Reset Camper

1. Raise your camper to the level you noted during uninstall, verifying that your truck bed rail height on each corner matches from your uninstall. If the height is different, adjust your camper height accordingly to ensure there will be at least a 3” clearance to drive under the camper safely.

2. Very slowly and carefully back your truck under your camper using a spotter to ensure you do not make contact with any of the jacks.

3. You can make small adjustments to your camper when lowering it by gently pushing on one side so you do not have to reposition your truck for fine tuning.

Have a Spotter

Best practice when driving your truck under your camper is to use a trusted spotter. Have all of your windows down, music off, and listen to your spotter’s commands. Look for any movement in the camper that could indicate a snag somewhere and proceed with extreme caution.

Reset Camper

1. Slowly and carefully lower the jacks one at a time, ensuring you keep the camper level and only lower each one a little each time.

2. Verify that you will hit the center of your truck bed by taking measurements as you lower your camper.

3. Ensure the front of the camper does not make contact with the cab of the truck and lower the rear of the camper more if the front is getting too close.


Fig. 1

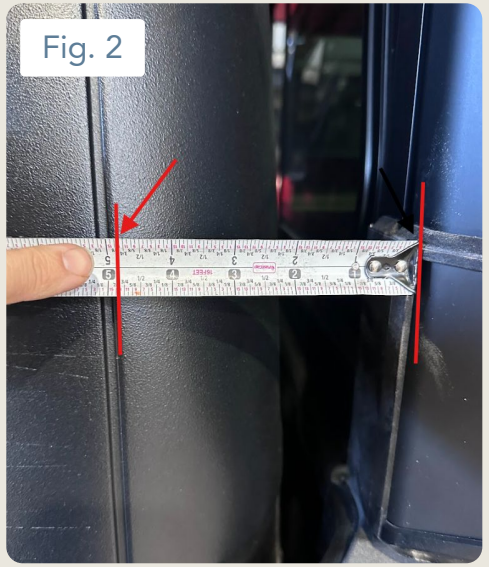

Fig. 2


Fig. 3

Set Your Parking Brake

Once your truck is in place and lined up, put your foot on the brake, engage the parking brake, then put your truck in park. This will ensure there is less movement during this action. Leave your parking brake engaged until your reinstall is complete.

Reset Camper

1. Once the camper is perfectly centered and ready to set, lower the camper jacks until each one is far enough off the ground that they do not make contact with the ground when you get in the truck bed and account for the sag.

2. Verify that your mounting brackets line up and your measurements stayed center as you took the weight fully off the jacks.

Don't Remove Them Yet

Leave the jacks in place for safety until the camper is fully secured, but ensure that they can not reach the ground with your weight added to the truck bed. If a jack makes contact with the ground after the camper has been centered, you risk moving the camper off center.



Fig. 1

Install Camper Mounts - Rail Mounting

1. If your camper is properly centered to your truck bed, you can slide the Toyota T-track block into the T-track and the threaded hole will line up with the center of the mounting hardware.

2. Hand thread each bolt and washer from the top of the bracket into each T-track block until they are all set in place.

3. Torque each mounting bolt to 8 ft-lbs.

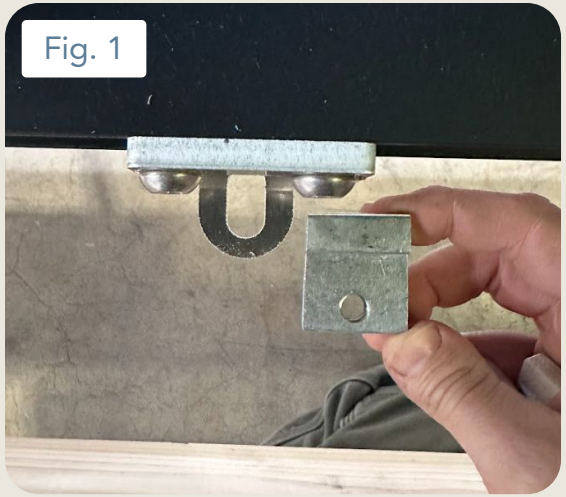

Fig. 1


Fig. 2


Fig. 3

Install Camper Mounts - Standard Mounting

1. Place each rear mounting bracket in the original location and slide a hammer nut behind each mounting hole.

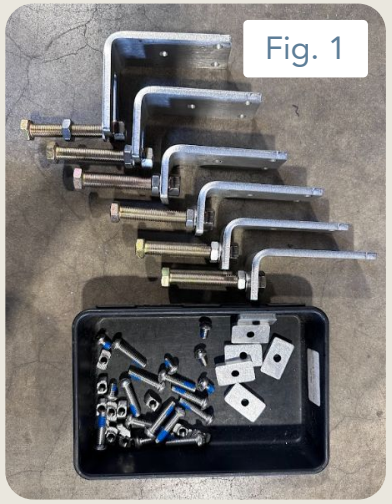

Fig. 1


Fig. 2

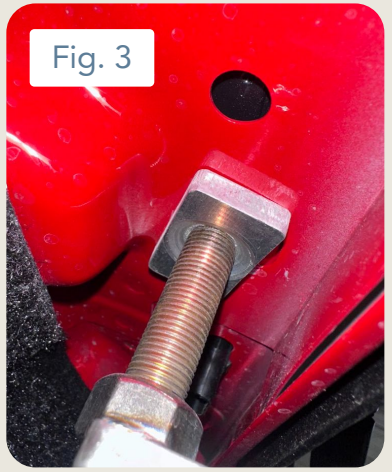
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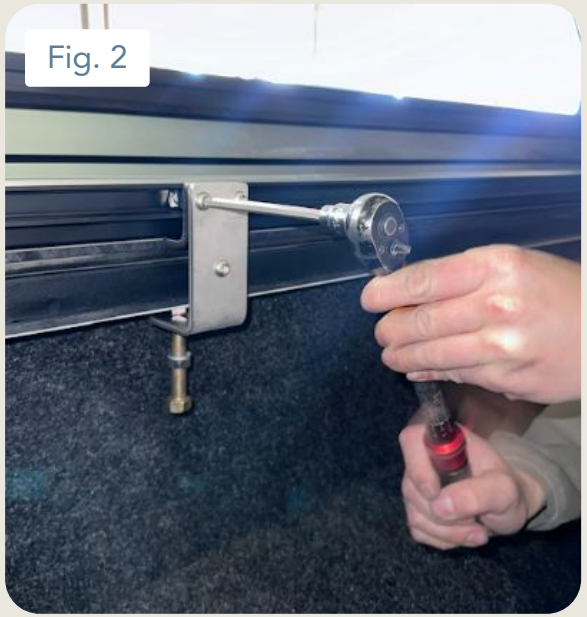
1. Place the main mounting bracket, and thread a bolt with blue threadlocker into each hammer nut until it is engaged into the T-track.

2. Tighten each of the three main mounting bracket bolts on the front to 12 ft-lbs.

3. Tighten the bottom mounting bolt until the landing pad can be slid into place, and tighten the bolt enough to hold it against the bed rail.


Fig. 1


Fig. 3


Fig. 2

Install Camper Mounts - Standard Mounting

1. Torque each mounting bolt to 8 ft-lbs.

2. Tighten the jam nut all the way up tight with the mounting bracket.

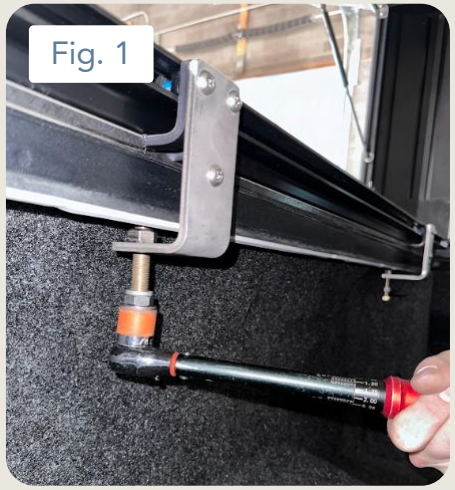


Fig. 1



Fig. 2

Reconnect Accessories

1. Reinstall any furniture, wiring, or any other items that you uninstalled when removing your camper. For any Tune products, reference the corresponding guide for best practices on installing the individual products.

2. Ensure all accessories are connected between the camper and truck that were previously there.

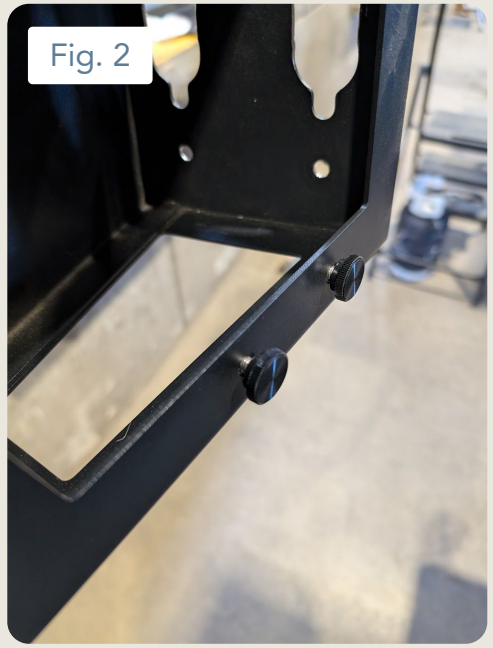
Remove Camper Jacks

1. Ensure your camper jacks are not touching the ground. For easier handling, you can retract them all the way until they bottom out.

2. Remove the thumb screw from each mount one-by-one and allow the jack to slide down and release from the studs.

3. You can now pull each jack away from the camper and place the thumb screw back into the thumb screw holders on each jack mount.


Fig. 1


Fig. 2

Safety Disclaimer and Acknowledgment

By using Tune Outdoor products and their 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 product. 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 your Tune Outdoor products. Periodic inspection is recommended to maintain safety during transportation.

Hammer Nut Engagement:

Hammer nuts must be fully engaged in the T-track to ensure the product remains securely attached. Failure to fully engage the hammer nuts may result in the product detaching while driving, leading to potential accidents, property damage, or injury.

Before driving, always double-check that the hammer nuts are properly secured and that the product is stable.

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.

Getting Help

For replacement parts, warranty questions, or anything this guide does not cover, contact Tune Outdoor Customer Care.