



Rusty's Off-Road Products  
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## Rusty's TJ HD Frame Mount RC-TB450-TJ INSTALLATION INSTRUCTIONS

Last Revised: 12/20/2016

### Introduction:

Rusty's recommends that this installation be performed by a certified automotive technician or a person with professional mechanical knowledge. Installing this kit without this expertise may jeopardize the handling and safety of the vehicle.

Read instructions several times before starting. Be sure you have all the needed parts and know where they install. Read each step completely as you go. Exhaust modifications may be necessary. Prior to drilling or cutting, check behind the surface being worked on for any wires, lines, or hoses that could be damaged. After any drilling or cutting, remove burrs and grind smooth any surfaces. An inclinometer or similar tool may be needed to measure driveshaft angles before and after the installation.

### Warning:

It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components. Seat belts and shoulder harnesses should be worn at all times. Re-check all bolts and nuts after the first 100 miles and after any off-road usage during the first 300 miles. Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles.

### Before Starting Installation:

1. Carefully Read all warnings and instructions completely before beginning.
2. Verify all parts have been received in this kit by checking the parts list on page#2 of this document.
3. Only install this kit on the vehicle for which it is specified.
4. Park the vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
5. Be certain the vehicle is safely secured on jack stands or a vehicle lift prior to working around or under a vehicle. Never rely on a jack alone to support a vehicle's weight; use appropriately rated stands to support the vehicle's frame and any other heavy components.



For Questions or Suggestions, contact our Tech Department (256-442-0607)

**Parts List:**

**Note:** Please be sure that you have all the provided parts listed below before continuing with the installation.

<b>Part #</b>	<b>DESCRIPTION:</b>	<b>Quantity</b>
RC-TB450-TJ	Rusty's TJ HD Frame Mount	1
05728407	1/2"-13 x 4" Length Grade 8 Hex Head Cap Screw	2
05724646	1/2" SAE Flat Washer	8
67488965	1/2"-13 Grade 8 Hex Lock Nut	4
05728258	1/2"-13 x 2-1/2" Length Grade 8 Hex Head Cap Screw	1
05728357	1/2"-13 x 3-1/2" Length Grade 8 Hex Head Cap Screw	1

**Installation Instructions**

Note: Save all factory components and hardware for reuse, unless noted.

- 1.) Ensure that your work space is of adequate size and the work surface is level. Place the vehicle in park.
- 2.) Unbolt the sway bar from the sway bar end links on both sides of the vehicle.
- 3.) Unbolt the track bar from the factory frame mount.
- 4.) Unbolt the lower shock bolt on the driver's side of the vehicle only.
- 5.) Place a floor jack under the front axle and raise the vehicle. Place jack stands under the frame rails behind the front lower control arm frame mounts and lower the frame onto the stands. Set the emergency brake, and place blocks both in front and behind the rear wheels. Using the jack under the axle, raise the driver side tire off the ground and remove the tire.
- 6.) Carefully lower the axle using the jack so that the driver side coil spring is unloaded. Remove the spring. It may be necessary to temporarily unbolt the lower end of the driver side front shock in order to lower the axle enough to facilitate removal of the spring. Perform this step on the driver side only.
- 7.) Install the track bar mount using the supplied 1/2" x 2.5" bolt in the lower mounting hole.

Refer to Image #1.

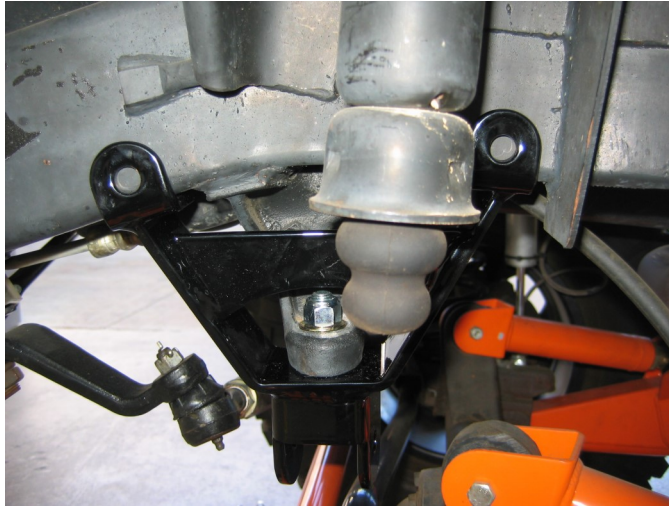
- 8.) Insert the 1/2" bolt and washer through the bottom. Note that the thick washer will be placed on the factory mount. Install and snug the nut but do not fully tighten at this time. Refer to Image #1.
- 9.) With the track bar mount bolted in place, use the two upper holes in the bracket as a template to mark the frame for drilling.



**Installation Instructions (Continued)**

Note: Save all factory components and hardware for reuse, unless noted.

**Image #1**



10.) Use a center punch or transfer punch to mark the location of the holes to be drilled in the frame. Drill the marked locations 1/2". Refer to Image #2.

11.) Install the supplied 1/2" x 4" bolts in the holes just drilled. Snug but do not fully tighten at this time. Refer to Image #2.

**Image #2**



12.) Reinstall the driver side coil spring.

13.) Re-attach driver side lower shock mount to the front axle if removed.

14.) Bolt the track bar to the newly installed track bar mount. Secure using the provided 1/2" x 3.5" bolt and hardware.



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### Installation Instructions (Continued)

- 15.) Reinstall the driver's side tire and lower the vehicle. Torque the lug nuts to manufacturer's specifications.
- 16.) Reattach the sway bar to the sway bar end links.
- 17.) Torque all provided 1/2" Grade 8 Hardware to 90 ft-lbs and tighten factory hardware to manufacturer's specifications.
- 18.) Installation Completed!

### Final Notes

Note: Save all factory components and hardware for reuse, unless noted.

At this point there should be no remaining new parts left to be installed except for the stickers.

You need to have the vehicle aligned as soon as possible.

## WARNING

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