

Rusty's JL Wrangler 392 Fuel Tank Skid RA-JS475-392 INSTALLATION INSTRUCTIONS

Last Revised: 6/4/2019

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.

Parts List:

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

<u>Part #</u>	<u>DESCRIPTION:</u>	<u>Quantity</u>
RA-JS475-392	Rusty's JL Wrangler 392 Fuel Tank Skid	1
RA-JS475-392-JL-RMB	Rusty's JL Wrangler 392 Rear Mounting Bracket	1
RA-JS475-392-JL-FLB	Rusty's JL Wrangler 392 Fuel Line Bracket	1
RA-JS-ARW	Rusty's JL Skid Aluminum Rock Washer	3
70994165	M12 x 1.50mm x 40mm Length Hex Head Cap Screw	3
67372086	3/8"-16 x 1-1/2" Length Steel Carriage Bolt	2
05724620	3/8" SAE Flat Washer	2
52593589	3/8" - 16 Grade 8 Hex Lock Nut	2
67563080	1/4"-20 x 3/4 Length Button Head Cap Screw	2
67483768	1/4"-20 Serrated Flange Nut	2

Installation Instructions

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

1. It is highly recommended to run the fuel tank as low as possible before completing the installation process to make it easier to handle the fuel tank.
2. Retain all factory hardware removed as some will be reused.
3. Remove the factory transfer case skid plate.
4. Remove the plastic splash guard on the transmission crossmember, this will allow you to access the fuel line. Remove the plastic push pin holding the fuel line to the fuel tank skid plate.
5. Locate to the rear of the fuel tank, remove the filler neck hose clamp at the fuel tank. This will prevent any damage to the hose during the installation.
6. Loosen (**IMPORTANT NOTE: DO NOT FULLY REMOVE**) all fuel tank skid mounting hardware at the passenger side frame rail, transmission crossmember, and the 2 interior mounts.
7. Locate to the front of the fuel tank skid on the passenger side, remove the bolt that fastens the band strap around the tank.
8. Remove the fuel tank skid plate bolt at the transmission crossmember, locate to passenger side frame rail and remove the 2 most forward fuel tank skid plate bolts.

Installation Instructions (Continued)

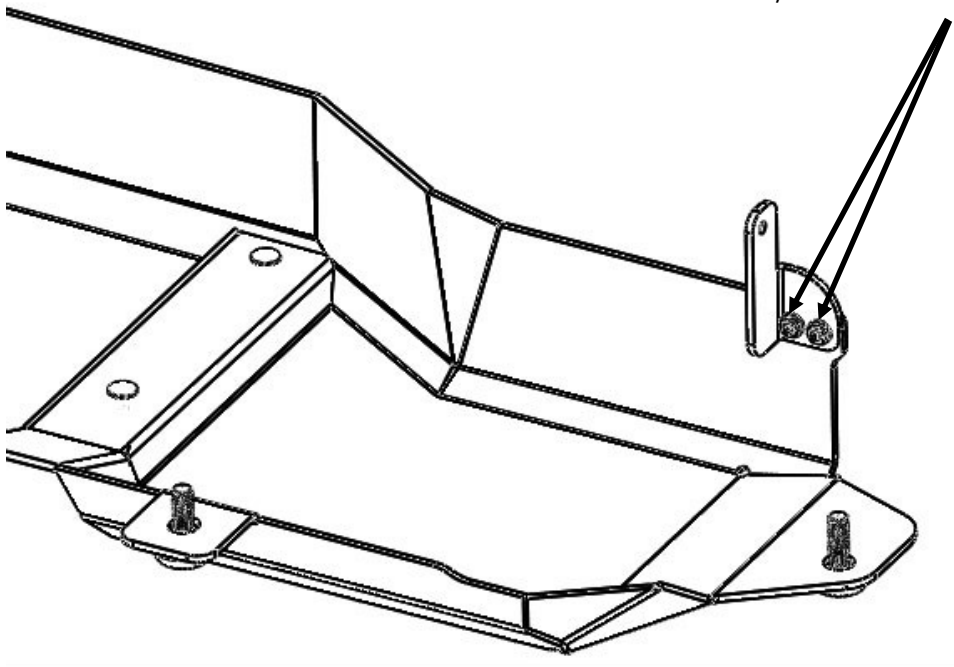
9. At this point the fuel tank skid plate should be leaning downward in the front.
10. Remove the band strap, on the inward side of the fuel tank skid plate you will locate the band strap holding tab. Press downward until it comes free, this will require some prying and pulling.
11. Use a small ratchet strap to hold the front of the gas tank. Place the strap between the skid plate and fuel tank and fasten at each frame rail. This will support the fuel tank once the skid plate is removed.
12. Have an assistant hold the rear portion of the fuel tank and support the weight. Then support the fuel tank skid plate(with another assistant) and remove the remaining mounting bolts for the fuel tank skid plate. Quickly remove the skid plate and place a second ratchet strap under the rear of the fuel tank.
13. Place the Rusty's fuel tank skid plate on a clean work surface. Locate the rear mounting tower with the supplied (2) 3/8 carriage bolts/washers/nyloc nuts. Install the rear mounting tower on the outside of the skid plate with the bends in the bracket facing away from the skid plate. Place the carriage bolts through the skid plate then mounting tower and place the washers and nyloc nuts. Slightly tighten then nuts, allow the rear mounting tower to still have ½ inch of inward/ outward movement.
14. Clean the fuel tank of any debris. Spray a lubricant (WD-40) on the sides and corners of the fuel tank. (The skidplates fits tight to the fuel tank and this makes the install easier)
15. You will need at least one assistant for the coming steps, it is much easier with two assistants though.
16. Loosen the ratchet straps enough to drop the fuel tank about 6" from the original location.
17. Locate the M12 bolts and ROCK WASHERS (3 total), they will fasten the skid plate at the 2 passenger side frame mounting points and the 3rd at the the transmission crossmember mounting point. The remaining 3 mounting points for the Rusty's fuel tank skid plate will reuse the factory hardware. Have all bolts ready for install before the next step.
18. With the help of at least one assistant, place the Rusty's fuel tank skid plate into place. Holding the skid plate in the front and back, press up firmly, then loosen the ratchet straps, then push upward until the mounting points align, the fuel tank will may have to be push forward/rearward to correctly align. You may have to use a pry bar to shift the skid plate to align some bolts as the skid plate is very large. Refer back to step 17 for correct bolt placement. Start all bolts before tightening any.
19. Locate to the rear skid plate mounting tower and fully tighten the 3/8 nyloc nuts at both mounting points.
20. Start tightening all skid plate mounting points alternating back forth for all bolts, this will help the skid plate pull up evenly.
21. Fully tighten all 6 skid plate mounting bolts.
22. Locate to the front of the skid plate just foward of the transmission crossmember , the fuel line bracket will bolt to the skid plate with the supplied ¼ bolts/nuts. The fuel line plastic push pin will attach to the bracket by pressing the pin into the bracket.

Installation Instructions (Continued)

23. Reinstall the plastic splash guard that was removed in step 4.
24. Reinstall the filler neck hose on the fuel tank and fully tighten the clamp.
25. Installation is now complete!

Hardware Installation Diagrams

- Rusty's JL Wrangler 392 Fuel Line Bracket (Qty:1)
- 1/4"-20 x 3/4 Length Button Head Cap Screw (Qty:2)
- 1/4"-20 Serrated Flange Nut (Qty:2)

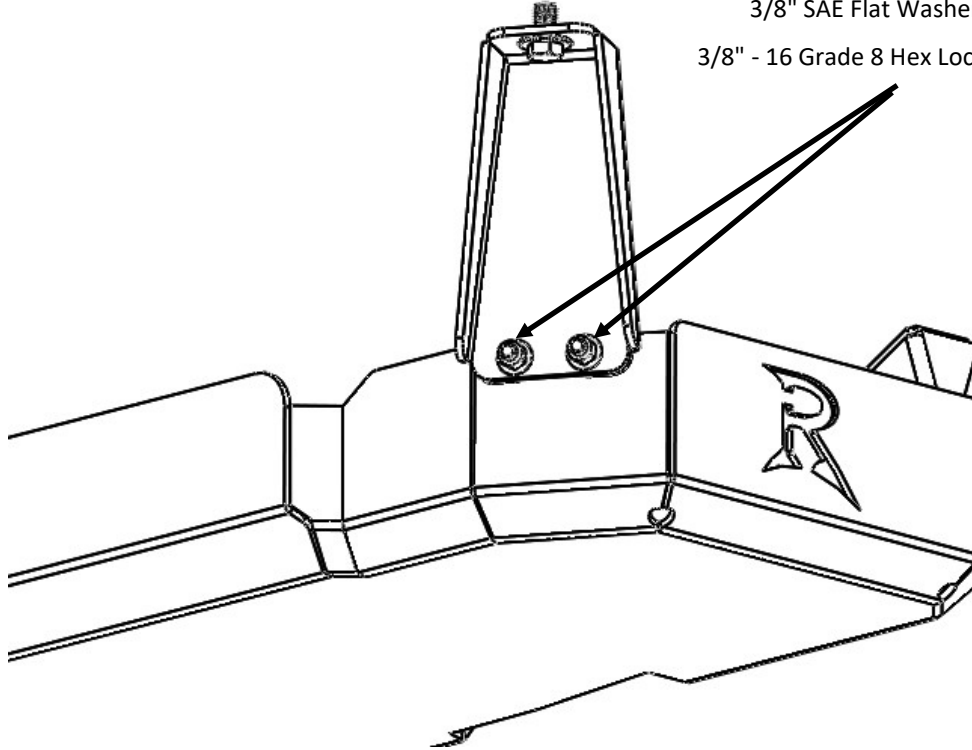


Hardware Installation Diagrams

3/8"-16 x 1-1/2" Length Steel Carriage Bolt (Qty:2)

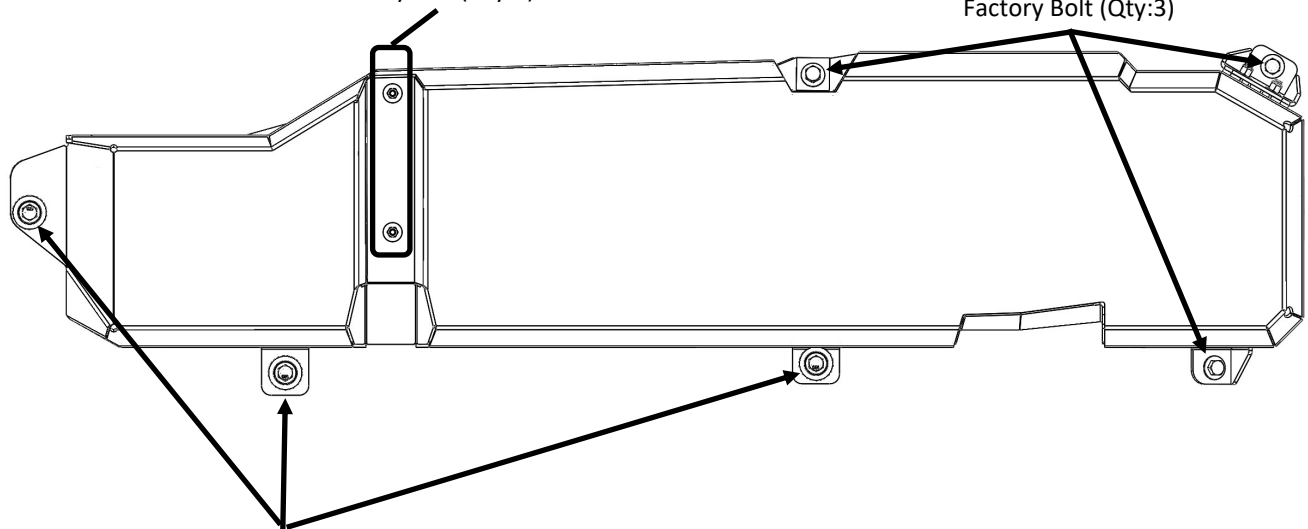
3/8" SAE Flat Washer (Qty:2)

3/8" - 16 Grade 8 Hex Lock Nut (Qty:2)



Factory Nut (Qty:2)

Factory Bolt (Qty:3)



M12 x 1.50mm x 40mm Length Hex Head Cap Screw (Qty:3)

Rusty's JL Skid Aluminum Rock Washer (Qty:3)