

Rusty's JL Wrangler 392 Muffler Skid RA-JS490-392 INSTALLATION INSTRUCTIONS

Last Revised: 12/12/2022

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.

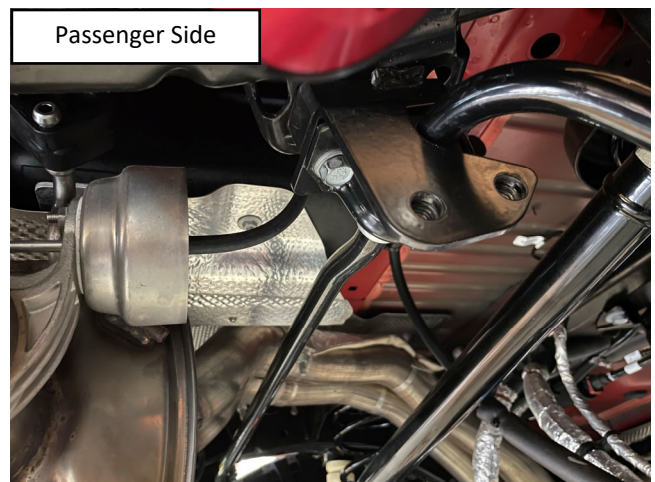
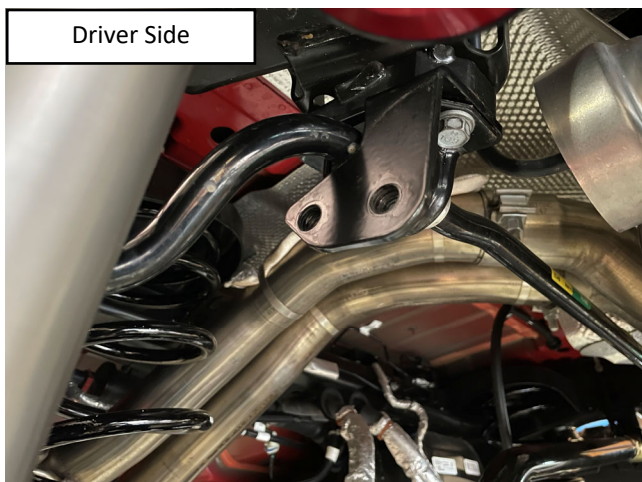
<u>Part #</u>	<u>DESCRIPTION:</u>	<u>Quantity</u>
RA-JS490-392	Rusty's JL Wrangler 392 Muffler Skid	1
87915369	1/2"-13 x 1 Length Grade 8 Hex Head Cap Screw	4
74454919	1/2"-13 x 1-1/2" Length Grade 8 Hex Head Cap Screw	4
05724646	1/2" SAE Flat Washer	8
MC-831034MC	1/2"-13 Serrated Flange Nut	4

IMPORTANT NOTE: If you plan to paint this bracket to accent the "392" cut out on the muffler skid you will want to complete this prior to installation to allow time for the paint to cure. It is highly suggested to use a high temp paint or header paint on this part due the high temp of the muffler.

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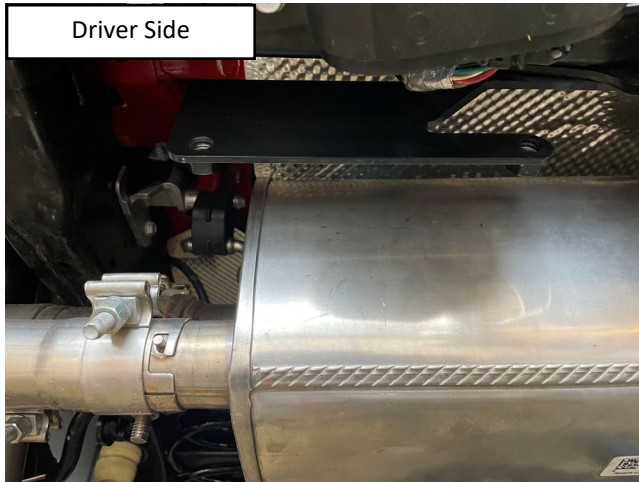
Note: Save all factory components and hardware for reuse, unless noted.

1. Park the vehicle on level ground or ensure the vehicle is level on a lift rack,
2. If equipped remove the 7 way trailer plug bracket by removing the (Qty:2) Factory 16mm head bolts. This will be reinstalled after skid installation, retain all hardware.
3. Remove the (Qty:2) Factory 15mm head bolts on the Driver Side Sway Bar Mounting Point, then install the supplied bracket as positioned in the image below. Place the flat portion of the bracket between the frame rail and the sway bar bushing retaining bracket. Reinstall the Qty:2) Factory 15mm head bolts at this time. Leave hardware loose enough to adjust the bracket.
4. Repeat Step# 3 on the Passenger Side at this time.

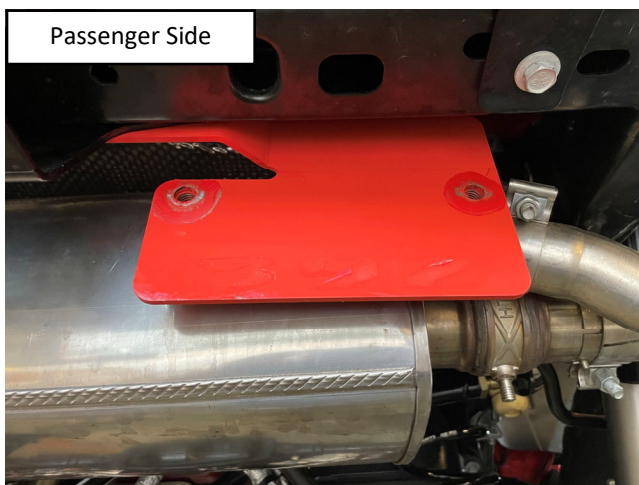


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5. Remove the (Qty:2) Factory 18mm head bolts on the Driver Side of the receiver hitch located directly behind the muffler, then install the supplied Driver Side Rear bracket as positioned in the image below. Reinstall the factory hardware at this time. Leave hardware loose enough to adjust the bracket.



6. Remove the (Qty:2) Factory 18mm head bolts on the Passenger Side of the receiver hitch located directly behind the muffler, then install the supplied Passenger Side Rear bracket as positioned in the image below. Reinstall the factory hardware at this time. Leave hardware loose enough to adjust the bracket. (Please Note: If you plan to paint this bracket to accent the "392" cut out on the muffler skid you will want to complete this prior to installation to allow time for the paint to cure. It is highly suggested to use a high temp paint or header paint on this part due the high temp of the muffler.)



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7. With the help of an assistant place the muffler skid into position (**Note:** All the brackets installed during the install so far will be positioned on the inside of the muffler skid.) Install the supplied (Qty:4) 1/2"-13 x 1 Length Grade 8 Hex Head Cap Screws and (Qty:4) 1/2" SAE Flat Washers in the rear mounting brackets installed during steps 5 and 6. (**Note:** Do not fully tighten hardware at this time.)
8. Install the supplied (Qty:4) 1/2"-13 x 1-1/2" Length Grade 8 Hex Head Cap Screws, (Qty:4) 1/2" SAE Flat Washers, and (Qty:4) 1/2"-13 Serrated Flange Nut in the front mounting brackets installed during steps 3 and 4. Position the 1/2"-13 Serrated Flange Nut on the inside of the skid and hand start the hardware. (**Note:** Do not fully tighten hardware at this time.)
9. Tighten the hardware (Qty:4) 15mm bolts installed to secure the sway bar mounting brackets during steps 3 and 4 at this time.
10. Tighten the hardware (Qty:4) 18mm bolts installed to secure the rear mounting brackets during steps 5 and 6 at this time.
11. Tighten the hardware (Qty:8) 1/2" bolts installed to mount the skid to the mounting brackets during steps 7 and 8 at this time.
12. Reinstall the 7 way trailer plug bracket by reinstalling the (Qty:2) Factory 16mm head bolts. using the factory hard
13. Installation is now complete!!



WARNING

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