



Rusty's Off-Road Products
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Rusty's XJ 231 Transfer Case Skid RA-JS15-XJZJ INSTALLATION INSTRUCTIONS

Last Revised: 12/21/2016

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.



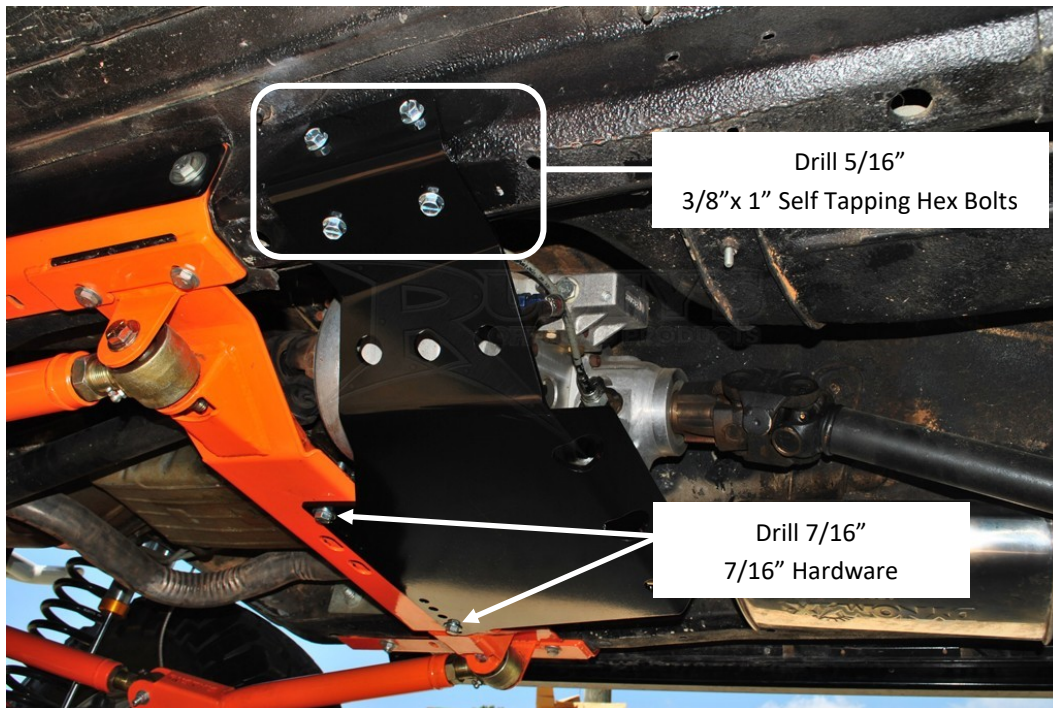
For Questions or Suggestions, contact our Tech Department (256-442-0607)

Parts List:

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

Part #	DESCRIPTION:	Quantity
RA-JS15-XJ	Rusty's XJ Transfer Case Skid	1
67522524	7/16"-14 x 3-1/2" Grade 8 Hex Head Cap Screw	2
52593597	7/16"-14 Grade 8 Lock Nut	2
05724638	7/16" SAE Flat Washer	4
67426205	7/16"-14 x 2-1/2" Grade 8 Hex Head Cap Screw	2
67379362	3/8"-16 x1" Self Tapping Hex Bolt	4

Installation Instructions:



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Installation Instructions:

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

- 1.) Properly block and secure vehicle prior to installation.
- 2.) It will make the job much easier if you have a floor jack. Position the jack under the skid-plate; slowly raise the skid plate up into position.
- 3.) Position the skid-plate so that the bent side of the skid-plate with four holes will be positioned on the outside of the driver's side frame rail. Locate the flat multi-hole side of the skid-plate on the bottom of the transmission cross member.
- 4.) Align the skid-plate by positioning the driver's side frame mounting point in the slight slope of the frame (be sure that the skid-plate is flush with the frame.) If there are any gaps the skid-plate can be moved forward or backwards.
- 5.) Once the frame mounting point is aligned, the transmission cross member mounting point can be aligned. If you are using a Rusty's Off-Road cross member you will use the two slotted holes already present. If you are using the stock or aftermarket cross member, select the two holes that best fit the cross member. Use one hole on each side to evenly distribute the load.
- 6.) Once the alignment is done, mark and center punch the holes.
- 7.) Drill the two hole locations at the cross member to 7/16".
- 8.) Drill the four marked hole locations at the driver side frame rail to 5/16".
- 9.) Use a floor jack to hold the skid plate back into position. Slightly tighten the provided 7/16" x 3-1/2" bolts first, then start the 3/8" x 1" self tapping bolts. Do not torque to specs yet. Slightly tighten all bolts to a snug fit. (**Note:** Some aftermarket cross members will require you to use the provided 7/16" x 2-1/2" bolts instead of the 7/16" x 3-1/2" bolts.)
- 10.) Torque the 7/16" bolts to 45 lb.-ft.
- 11.) Torque the 3/8" self tapping bolts to 20 lb.-ft. (**NOTE:** Do not over-tighten these can be stripped out if overtightened.)
- 12.) Installation Completed!

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