

Rusty's XJ Cherokee Transfer Case Lowering Kit RC-TCD1-XJ INSTALLATION INSTRUCTIONS

Last Revised: 11/3/17

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>
RC-TCD1-XJ-DS	Rusty's XJ Cherokee Transfer Case Drop Spacers	2
09889080	M10 x 1.50mm x 50mm Length Hex Head Cap Screw	4
67493080	M10 x 20mm O.D. Flat Washer	4

Installation Instructions

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

1. Place the vehicle on a level surface, put the transmission in 'Park' or Low gear, and set the parking brake. Position a jack under the transfer case cross member.
2. Support the transfer case cross member with a jack.
3. Remove the hardware that secures the transfer case cross member to the uni-body on the driver side of the vehicle. On many models you find that there are two bolts and two studs that fasten the cross member to the frame. In the event that you have studs you will need to remove them by using a stud extractor or by doubling up the nuts. (**Note:** We suggest presoaking the hardware with a penetrating oil to assist with removal process.)
4. Loosen the passenger side hardware to allow for the transfer case cross member to be lowered slightly.
5. Lower the jack slowly used to support the transfer case cross member slowly until you have enough room to place one of the supplied Rusty's XJ Cherokee Transfer Case Drop Spacers between the cross member and uni-body.
6. Align the mounting holes and install the supplied (Qty:2) M10 x 1.50mm x 50mm Length Hex Head Cap Screws and (Qty:2) M10 x 20mm O.D. Flat Washers on the driver side to secure the cross member to the uni-body. Prior to installing hardware it is suggested to apply a quality thread lock to the threads of the hardware. (**Note:** Do not tighten hardware completely until instructed.)
7. Repeat steps 3-6 on the passenger side of the vehicle.
8. Tighten the installed hardware to 30 ft.-lbs. to secure the cross member and spacers to the uni-body.
9. Remove jack used to support the transfer case cross member.



Installation Instructions (Continued)

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

10. Check to ensure that the transfer case will shift and fully engage. If the shifter will not shift correctly you will need to adjust the shift linkage at the transfer case. Locate the adjuster the assembly as necessary. Ensure that you are able to shift into all ranges once adjustments are made. (**Note:** Secure the vehicle by chocking the tires to prevent the vehicle from being able to roll forward or reverse before adjusting.)

11. Installation is now completed!

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 300 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. Thank you for choosing Rusty's Off Road Products.



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