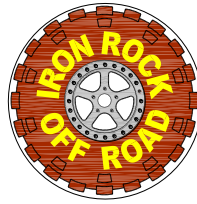


Hack and Tap Slip Yoke Eliminator Installation:



Iron Rock Off Road, Inc.

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1. **Prior to starting work, ensure that all parts are present and in good condition.**
2. Ensure that you have the type of transfer case output shaft shown in the photo to the right (middle photo). If your transfer case has a tail cone around the yoke you will need our seal housing (sold separately).
3. Verify that this kit will fit your vehicle. Certain XJ Cherokee's will require a custom driveshaft (mostly 1989 or older, but follow the measurement procedure in step 14 to be sure). Grand Cherokee's will require a custom driveshaft.
4. Read and understand all installation instructions.
5. If you have any questions before, during, or after installation contact Iron Rock Off Road (see contact information above).



Parts List:

- 1310 Double Cardan CV Driveshaft (32.25" running length) (1)
- 1310 CV transfer case yoke, 27 spline (1)
- 3/8"-16 x 3/4" grade 8 hex bolt (1)
- 5/16-24 x 1-1/4" grade 8 fine thread hex bolt (4)
- M10 x 30 class 10.9 hex bolt (4)
- 3/8 USS washer (5)

Tools You Will Need:

- Hand Drill
- Good quality 1/4" drill bit (available from IRO)
- Good quality 5/16" drill bit (available from IRO)
- 3/8"-16 hand tap and tap handle (available from IRO)
- 4" angle grinder with cut-off wheel, or other means of cutting the output shaft.
- Torque wrench
- Center punch
- Hammer
- High strength threadlocker such as LockTite red
- Basic hand tools



Remove transfer case drop kit (if equipped):

6. If you do not have transfer case drop spacers between your transfer case crossmember and unibody, proceed to step 10.
7. Support transfer case and transmission with either floor jack or transmission jack.
8. Unbolt transfer case crossmember, and remove transfer case drop spacers.
9. Apply anti-seize compound to the four M10x30mm hex bolts.
10. Re-install transfer case crossmember using provided M10x30mm bolts and washers and torque to 35 foot-pounds.

Slip yoke eliminator installation procedure:

11. Place the vehicle on level ground and chock the wheels, or place the vehicle on jack stands under the front and rear axles.
12. Ensure the vehicle is secure.
13. Remove rear driveshaft by unbolting the rear pinion u-joint straps and slide the slip yoke off the end of the transfer case.
14. With the rear pinion yoke horizontal, make a mark where the transfer case output shaft will be cut by measuring from the center of the u-joint pocket on the rear pinion yoke to the transfer case output shaft and mark at 33-3/4". Mark with permanent marker, preferably a silver felt tip permanent marker. *This must be done with the vehicle weight on the suspension as the vehicle will be normally driven. Verify that this measurement leaves a minimum 1" of complete splines after cutting and chamfering. If necessary, it is acceptable to vary cut location by up to 3/4" in either direction as long as minimum spline requirement is maintained.
*If using our seal flange, verify that this cut location will allow the yoke to completely engage the seal. The seal is installed on the non counterbore side of the seal flange.
Torque seal flange bolts to 25 foot pounds.
15. Use cut-off saw to cut off the transfer case output shaft at the mark from step 14.
16. Ensure that end of shaft is perfectly straight and square.
17. Chamfer the outside corner of the output shaft so the yoke slides on smoothly.
18. With the yoke in place, mark where to drill the hole using a sharpie marker or scratch awl. Alternatively, you can find a drill bit that fits tightly in the center hole of the yoke and drill through the yoke into the transfer case output shaft just enough to make a good center mark.
19. If needed, use center-punch and hammer to mark where to drill shaft.
20. Drill with 1/4" drill bit 1-1/8" deep (Peck drill and use lubricant).
21. Re-drill same depth with a 5/16" drill bit (Peck drill and use lubricant).
22. Tap with 3/8"-16 Tap (Make sure to use lubricant and back out the tap frequently to clear chips).
23. Make sure 3/8" x 3/4" bolt threads in completely.
24. Apply high strength threadlocker to threads of bolt.
25. Install yoke onto output shaft and torque fastener to 30 foot-pounds.
26. Install CV driveshaft and tighten any remaining loose bolts.
27. Grease slip shaft, double cardan ball and socket, and u-joints if possible.

