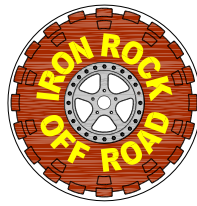


# Installation Instructions: Hack and Tap Slip Yoke Eliminator (32 spline) NP242WJH and NP241C



**Iron Rock Off Road, Inc.**

952-210-7185

Website: [www.ironrockoffroad.com](http://www.ironrockoffroad.com)

E-mail: [Contactus@ironrockoffroad.com](mailto:Contactus@ironrockoffroad.com)

## Fitment and additional parts required:

WJ Jeep Grand Cherokee (1999-2004) with NP242WJH 32 spline output only: Requires custom length double cardan driveshaft.

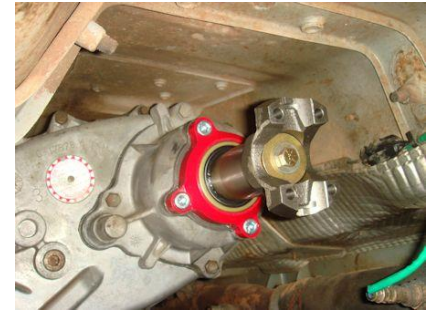
Full Size Ford, Chevrolet, and Dodge with NP241C transfer case. Requires custom length double cardan driveshaft.

## Shipping Checklist:

- Instructions
- Iron Rock Off Road decal (1)
- Hack and tap yoke 88090 (1)
- Seal Housing 88078 (1)

## Hardware Kit 108 (32 spline hack-n-tap)

- Yoke retaining washer 88083 (1)
- 3/8"-16 x 3/4" gr8. hex bolt (1)
- 5/16"-24 x 1-1/4" gr.8 hex bolt (4)
- 3/8 USS washer (1)
- M10 x 20 socket head cap screw (4)
- Seal p/n 3946
  - With optional tool kit only:
    - Hardware kit 62
      - 1/4" Drill Bit
      - 5/16" Drill bit
      - 3/8"-16 hand tap
    - With optional drill jig only:
      - 32 spline drill jig p/n 89088 (1)



## Prior to starting work, ensure that all parts are present and in good condition.

- Read and understand all installation instructions.
- If you have any questions before, during, or after installation contact Iron Rock Off Road (see contact information above).

## Tools You Will Need:

- Hand Drill
- Good quality 1/4" and 5/16" drill bit (available from IRO)
- 3/8"-16 hand tap (available from IRO) and tap handle.
- 4" angle grinder with cut-off wheel, or other means of cutting the output shaft.
- Torque wrench
- Hammer
- High strength threadlocker such as Loctite red
- Basic hand tools
- Drill jig, not required, but highly recommended (available from IRO)

## Slip yoke eliminator installation procedure:

1. Place the vehicle on level ground and chock the wheels, or place the vehicle on jack stands under the front and rear axles.
2. Ensure the vehicle is secure.
3. Remove rear driveshaft by unbolting the rear pinion u-joint straps and slide the slip yoke off the end of the transfer case.
4. Remove seal housing (tail cone).
5. Cover exposed ball bearing to protect from cutting debris.

## Measure for cutting:

6. Mark output shaft for cutting at 4-1/16" from outside edge of snap ring.
7. Use cut-off saw to cut off the transfer case output shaft at the mark.
8. Ensure that end of shaft is perfectly straight and square. Drill jig works great for this.
9. Chamfer the outside corner of the output shaft so the yoke slides on smoothly.
10. Drill using drill jig if possible. Otherwise with the yoke in place, mark where to drill the hole using a Sharpie marker or scratch awl. Alternatively, you can use a 3/8" drill bit and drill through the yoke into the transfer case output shaft just enough to make a good center mark.
11. If needed, use center-punch and hammer to mark where to drill shaft.
12. Drill with 1/4" drill bit 1-1/8" deep (Peck drill and use lubricant/coolant).
13. Re-drill same depth with a 5/16" drill bit (Peck drill and use lubricant/coolant).
14. Tap with 3/8"-16 Tap (Make sure to use lubricant and back out the tap frequently to clear chips).
15. Clear chips then make sure 3/8" x 3/4" bolt threads in completely.
16. Install the new seal into the new seal housing.
17. Apply a thin coat of RTV sealant to the back side of the new seal housing and install on the transfer case.
18. Place yoke on shaft and insert fully.
19. Apply a thin coat of RTV sealant to yoke retaining washer making sure to seal the washer to the shaft and also the yoke.
20. Apply a thin coat of RTV sealant to the end of the shaft and yoke making sure it is thick enough to reach the washer if the shaft is cut too short.
21. Apply high strength threadlocker to threads of bolt.
22. Install yoke retaining washer and torque fastener to 30 foot-pounds.
23. Install CV driveshaft and tighten any remaining loose bolts.
24. Grease slip shaft, double cardan ball and socket, and u-joints if possible.

