



### Parts List:

- Instructions
- Optional: V8 Drive Shaft (NP 247) 32.75"
- Optional: 6 cylinder Drive Shaft (NP 242) 34.25"
- WJ T-case Yoke (88000) (1)
- D30/D44 U-bolt Pinion Yoke (WR-27014) (1)
- D30 U-bolts For Pinion Yoke (A490K) (1)
- 5/16-24 x 1-1/4" Flange head bolt (4)
- Optional: Crush sleeve 46194 (1)
- Optional: Pinion seal NS5778 (1)



### **Safety Warning: \*\*\*Important! Read Before Installation. \*\*\***

We recommend that this system be installed by a qualified professional. Knowledge of drivetrain component function is necessary for safe installation and post installation inspections.

### Before you begin:

- Read all safety warnings.
- Read and understand installation instructions.
- Contact Iron Rock Off Road with any questions before, during, or after installation.
- Ensure that all parts are present and in good condition using the included shipping checklist.
- Pinion seal (sold separately) highly recommended.
- Be sure you have the following tools and supplies:
  - Multi-purpose grease
  - Anti-seize compound
  - Floor jack and jack stands
  - Basic hand tools
  - In-lb. Torque wrench
  - Ft-lb. Torque wrench
  - Pinion holding tool (sold separately Iron Rock #13377)

### Installation:

1. Lift front of vehicle and support with jack stands under the frame near the lower control arm mounts.  
\*\*Tip: break lug nuts loose before lifting vehicle.
2. Ensure that vehicle is safely supported.
3. Remove front tires.
4. Place two jack stands under the front axle tubes.
5. Remove front driveshaft.
6. Remove front brake calipers and rotors.
7. Rotate the pinion a minimum of 10 times to ensure there is no binding.
8. Using an in-lb. torque wrench, measure the amount of force required to rotate the pinion. Record that reading here \_\_\_\_\_ in-lb.  
\*Measure this several times to ensure accuracy.
9. Using a pinion holding tool, remove pinion nut and pinion yoke.  
If replacing pinion seal:
  - a. Remove seal using a seal puller or pry bar.
  - b. Apply a light coating of gear oil to pinion seal lip
  - c. Install pinion seal using a seal driver.
10. Apply a light coating of gear oil to pinion sealing surface.
11. Install U-Bolt pinion yoke, washer and pinion nut. Using a pinion holding tool tighten pinion nut. Tighten slowly by hand, do not use an impact wrench. Avoid over tightening the pinion nut.
12. Slowly tighten the pinion nut in 5 ft-lb increments until the previously recorded rotating torque is reached. Frequently check rotating torque to avoid over collapsing the crush sleeve.
13. Rotate the pinion several times and check again.

14. Tighten the pinion nut again until the rotating torque is increased by 5 in-lbs.
15. Remove front t-case drive flange.
16. Install new t-case yoke and torque nut to 90-130 ft-lb.
17. Install new driveshaft. Torque U-bolts to 14 ft-lb.
18. Reinstall brake rotors and calipers. Tighten caliper slide pins to 21-30 ft-lb, caliper mounting bracket bolts to 66-85ft-lb.
19. Reinstall tires and lower the vehicle.
20. Torque lug nuts to spec (85-115 ft-lb)

**Final Safety Warning:**

\* Re-torque all fasteners after 100 miles, and frequently inspect all safety critical suspension components. It is the responsibility of the installer to be sure all fasteners are properly tightened after installation and to ensure the owner knows his/her ongoing responsibility. It is the responsibility of the owner of the vehicle to be sure all safety critical components are inspected frequently, especially after off road or other demanding use.