

Dana 44 Rebuild Video

This is the first video in a series of my rebuild of the Dana 44 on my 2014 Wrangler Sahara with Tru-Trac. Follow along as I get this thing road ready again! <https://www.yukongear.com/blogs/12-te...>

Amazon Links to parts and tools used in this series:

- Yukon Gear & Axle (YDGD44-3-30-1) 30-Spline
- Dura Grip Positraction for Dana 44 with 3.73 & DOWN: <https://amzn.to/3DdjSt5>
- Yukon Gear & Axle (YK D44-JK-STD)
- Master Overhaul Kit for Jeep JK Non-Rubicon Dana 44 Rear Differential: <https://amzn.to/3XTmunJ>
- Yukon Gear Friction Modifier: <https://amzn.to/3Y0DOY9>
- 33mm Deep Socket: <https://amzn.to/3H9r0Yj>
- 20 mm Deep Socket: <https://amzn.to/3XZaIbB>
- 4 Lb Deadblow Hammer: <https://amzn.to/3kFLgcO>
- Inlb Torque Wrench: <https://amzn.to/3wwWmn3>
- Bearing Race and Seal Bushing Driver: <https://amzn.to/3kvB4Dp>
- Bearing Separator Puller Set Heavy Duty: <https://amzn.to/3H4gwtr>
- Differential Housing Spreader for Dana Axles: <https://amzn.to/3XzOA7V>
- Stainless Steel Pinion Yoke Wrench Tool: <https://amzn.to/3wuUs6s>
- Dial Indicator with Magnetic Base Holder Fine: <https://amzn.to/3XDL8ca>
- Gear oil
- Shim Pusher tool

Video 1 – Dana 44 Rebuild: Installing the Ring Gear

1. Remove oil from bolts in kit
2. Heat ring gear to place on carrier, use hot plate, place carrier in freezer
3. Thread locker on bolts for carrier/ring gear
4. Insert bolts, tighten in cross pattern, first snug then torque to 134 ft/lbs, mark as you tighten

Video 2 – Dana 44 Rebuild: Removing the old carrier, pinion and bearing races.

1. Remove axles using slide hammer
2. Press bearing on carrier, or use heat and cold
3. remove bolts on axle clamps with 19mm socket
 1. take photos of orientation
 2. keep track of shims' placement and position
4. Use box end wrench on ring gear while securing the drive shaft end to get carrier out
5. be careful keeping track of which side and combination.
6. When loose, carefully remove ring gear/carrier with bearings with shims
7. Next remove pinion gear
8. remove the pinion gear nut from the space (hole) where the drive shaft connects-33mm
9. Remove the flange with a pulley puller
10. Use and impact wrench and don't lose washers
11. bang out pinion gear
12. remove seal
13. remove bearing races – inside and outside
14. there might be shims between the bearing and pinion

Video 3 – Dana 44 Rebuild: Pinion Bearing install and Pinion setup Bearing

1. Count or keep shims between pinion gear and bearings
2. Create or buy a setup bearing so it will slide on and off easily
3. Use bearing race and seal bushing driver from Amazon, place the race in the freezer to ease installation.

4. Insert bearing race seated on the outside of the differential at the drive shaft side, may use brass punch or wood to help align the race.
5. Insert race to pinion gear from the inside of differential at the drive shaft side
6. place the back bearing, add cover and bolts, snug, use plate to keep socket square, and tighten bolts to 12-35 inch lbs

Video 4 – Dana 44 Rebuild: Pinion depth, back lash and shim set up

1. Keep spacers (lateral) from last carrier
2. Install carrier (LSD)
3. Use shim pusher tool??
4. Install bearing caps to 80 ft/lbs before measuring
5. Paint gears, hold back of pinion gear for resistance
6. Use guide for tooth pattern
7. Tools – Case spreader (limit to .015 inch) and slide hammer

Video 5 - Dana 44 rebuild: carrier bearing installation

1. The two bearings that are identical are the ones for the carrier bearings
2. Install carrier bearings with press or using heat and cold
3. Make bearings are fully seated
 1. maybe use another bearing (old one) to help press the new bearing on
 2. The bearing sits lower then the carrier shaft
4. Carrier unit includes the ring gear and two sets of bearings
5. ?? Longer diameter is inside/next to the carrier??

Video 6 - Dana 44 Rebuild: final assembly

1. Remove the pinion gear nut by using an impact wrench or helper bar
2. After shims are set, remove installation bearing and replace with new bearing using heat and cold
3. You can also use the old bearing to press the new bearing into place.
4. Install the seal outside differential where the drive shaft enters