4WD Extended Axle Installation Instructions

For 2005-2007 Toyota Tacoma, 2003-2007 Toyota 4Runner & 2007 Toyota FJ Cruiser
Running Total Chaos Fabrication Long Travel Suspension System

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WARNING:

This procedure is VERY difficult. DO NOT ATTEMPT if you don't have decent automotive mechanical knowledge, proper tools or you don't pay attention to details. Before starting, read through the entire procedure thoroughly. If you feel competent enough to handle this, take your time and follow the instructions carefully. If you feel that you are not capable of completing any of the steps, call Total Chaos to assist you with other options to help you install these items.

Tools Required for install:

- Chop Saw w/ metal cutting blade
- Table Vise w/ soft jaws
- Hammer
- Diagonal Cutters (Dikes)
- Brass Punch
- Flat Head Screwdrivers
- 20 ton hydraulic press (Tacoma ONLY)
- Container to hold grease
- Safety Glasses
- Gloves
- Duct Tape
- Paper Towels or Rags

ATTENTION:

After performing this modification, you will NOT be able to reuse the factory axles again.

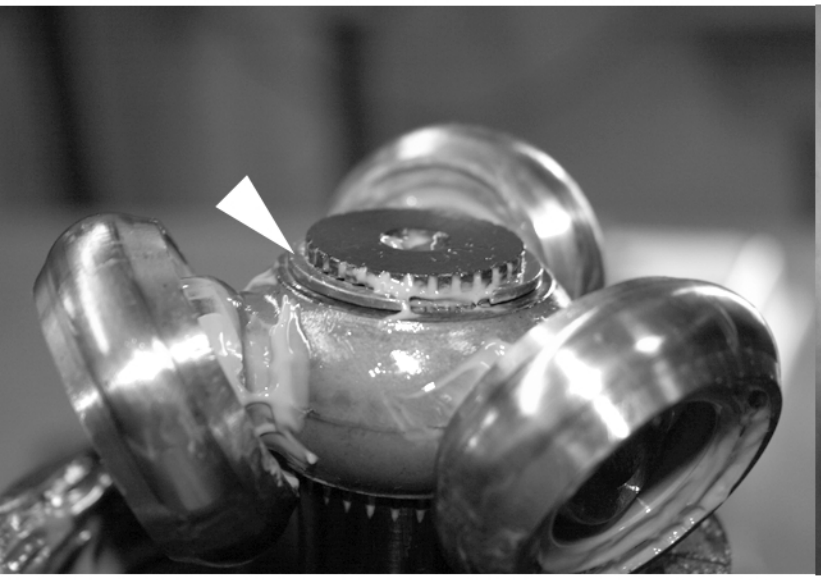
Some procedures require the utmost attention to safety.
All steps require the wearing of safety glasses or some form of eye protection.

These instructions begin with the axles already removed from the truck.

For all questions, contact Total Chaos Fabrication @ (951) 737-9682 M-Th 8:00 AM - 5:00 PM

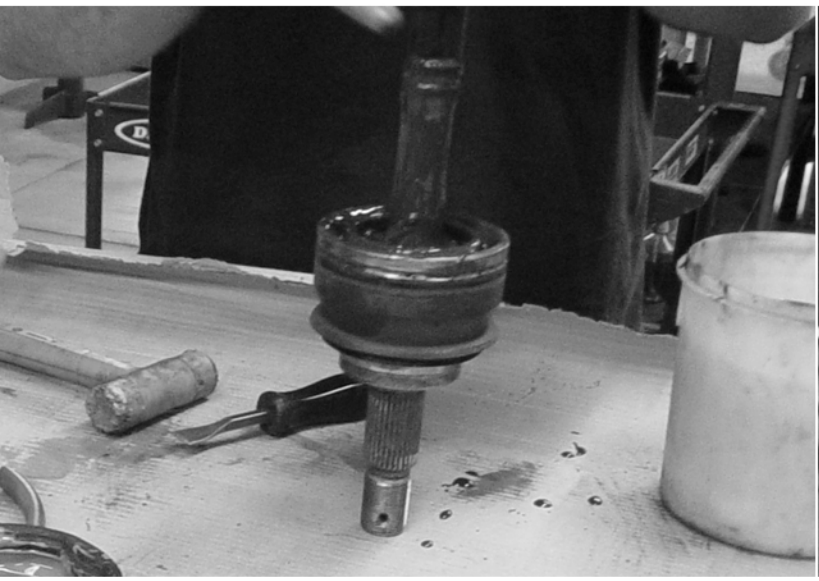
1. Remove the inner CV boot clamps. Be sure not cut the CV boot as it will reused.

2. Carefully pull the CV boot off the inner CV joint and separate the inner CV from the axle. Leave the CV grease inside the CV housing.



3. Remove the snap ring holding the inner CV star to the axle and pull the star off the axle. Save the snap ring, it will be reused on the new axle.

4. Slide the inner CV boot off the axle and set aside.



5. Flip the axle so the outer CV is at the bottom. Remove the CV boot clamps from the outer CV joint and slide the boot off the axle. Set boot aside for later. Pour the grease from the CV joint into a clean container.

6. Using duct tape, cover the outer CV joint opening so that no contaminants can get into the grease.

7. Place the axle assembly on the chop saw and cut the axle as close to the joint as possible.

8. Discard the axle and remove the duct tape from the joint.

9. Tap the remnant of the axle with a hammer to rotate the CV far enough to remove one ball at a time. Use a pick or small screwdriver to help.

10. Once all the balls are removed, rotate the CV star and cage so they are straight up and down.

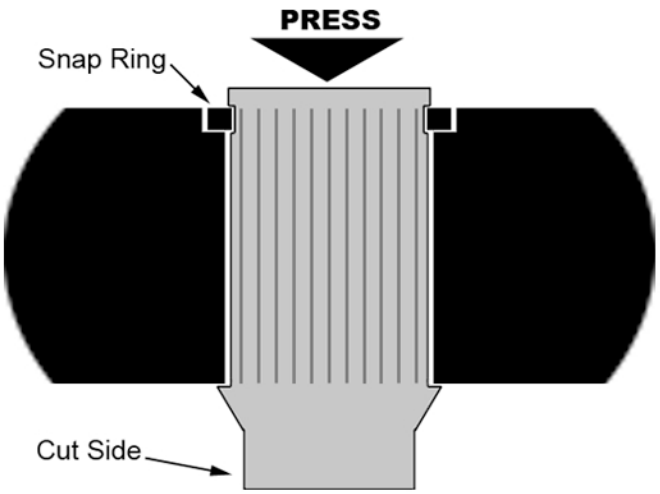
11. Rotate the CV cage windows so they align with the grooves and pull internals out from the CV joint. Take note of which side of parts faces up towards axle so they are reassembled exactly the same.

12. Separate the star from the cage by aligning the star into the cage windows. One side of the CV cage is larger for this reason.

13. Place the CV cage back in the outer CV joint and clean the grease off the CV star.

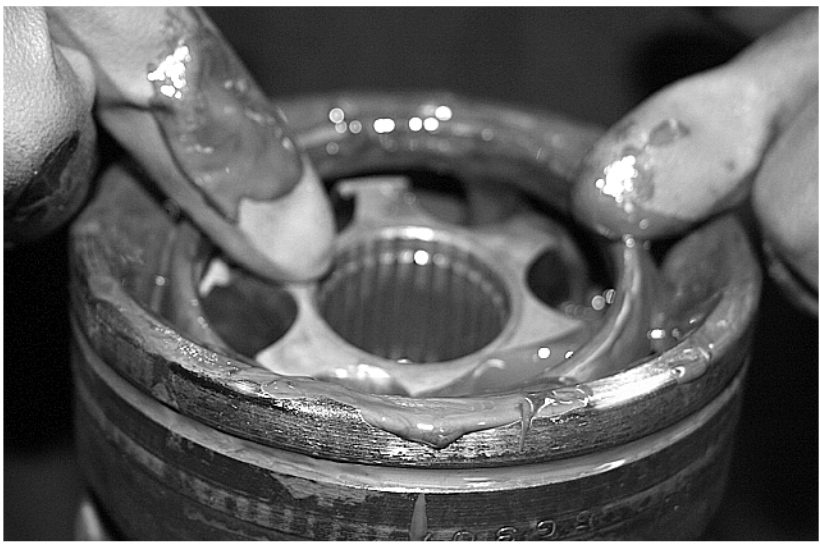
4Runner & FJ Cruiser ONLY!

14. Using a small screwdriver, pry the snap ring off the axle stub. Use a hammer to tap the axle stub out of the CV star. Discard the axle stub and the snap ring.



Tacoma Truck ONLY!

14a. The snap ring on this model truck is hidden inside the star. You must use a hydraulic press to compress and break the snap ring. Press the axle stub out with the cut side facing down. Snap ring should break at 15-20 tons.



15. With the CV cage still inside the CV joint, align the CV star back in the CV cage. The side of the CV star with the splines machined off, faces up towards the axle.

16. With a brass punch and a hammer, angle and rotate the CV star so you can put the balls back into the joint one at a time. The star will get tighter as more balls are inserted.

17. After all the internals are inserted, pour the outer CV grease back into the joint.

18. The new axle shaft has a new retaining ring that expands once it goes through the star. Align the splines and push the axle so the retaining ring is compressed inside the star. Use a rubber mallet to tap the axle through the star. Make sure it is seated all the way down.

19. Slide the factory outer boot onto the opposite side of the axle and attach it to the CV joint. Use new CV boot clamps.

20. Slide the factory inner CV boot onto the axle.

21. Mate the inner CV star with the axle and install the snap ring.

22. Slide the inner CV housing onto the axle.

23. Attach the inner CV boot and tighten the boot clamps.