

## Dodge 14 + Ram 2500/3500 Tie Rod & Drag Link Installation Instructions:

- 1. Before removing your OEM tie rod and drag link assemblies, measure from grease fitting to grease fitting on both (or from ball-stud center to ball-stud center if no grease fittings). Write these measurements down for later.
- 2. All part numbers that begin with TR belong to the tie rod assembly and all DL part numbers belong to the drag link assembly.
- 3. Locate the passenger and driver side tie rod ends and adjusting rod. The passenger side rod ends have notches in the jam nuts, indicating left-hand thread. The adjusting tube has a ring machined in one end next to the flats on the ends this indicates left-hand threads.
- 4. Thread jam nuts all the way down the tie rod ends, install Ninja washers on the ends all the way down to the jam nuts.
- 5. Starting with the tie rod connecting rod, locate the passenger side of the tie rod tube, it will have a cut line toward the end of the rod, find the passenger tie rod end that has notches in the jam nut. (Please, coat the inside threads of the connecting rod with anti-seize, NOT the tie rod end threads. Getting anti-seize in the area of the jam nuts can decrease the effectiveness of the jam nuts).
- 6. Thread the tie rod ends into the adjusting rod, ensuring the correct thread direction. Thread until it reaches the jam nut. Wipe off any excess anti-seize.
- 7. Continue with the driver's side of the tie rod and repeat the above instructions.
- 8. Now adjust the ends equally to set the grease fitting to grease fitting (or ball-stud center to center) distance to the same as the OE measurements you took earlier in Step 1.
- 9. Now assemble the Drag link assembly, locate drag link connecting rod and ends, follow the instructions as you did with the tie rod assembly.
- 10. Remove OEM tie rod and drag link assemblies.
- 11. Install the tie rod first. Torque the tension nuts to 63-67 ft. lbs. Leave jam nuts loose and use tape measure to set toe to factory specs.

- 12. Install drag link next with the drag link end on the passenger side tie rod end first, then the pitman arm side. Torque the tension nuts 75-82 ft lbs. leave the jam nuts loose.
- 13. Once toe is set, center your wheel by rotating drag link connecting rod. Once the steering wheel is straight, tighten the jam nuts on the drag link and torque to 200 ft/lb.
- 14. Tighten all the jam nuts on the tie rods and drag links, torque to 200 Ft. Lbs. (Note: There is an anti-flop bearing in the tie rod ends. This bearing allows for 4 degrees forward and back rotation (flop). When tightening the tie rod jam nuts ensure that you are not tightening against these bearings. To do this: Tighten the passenger side jam nut first, then center (level) the "flop" in the bearing while tightening the driver's side jam nut. When both jam nuts are tight there should be approximately 4 degrees of forward and back rotation (flop)).
- 15. Set and adjust steering stabilizer, be sure that it has equal travel at full lock both directions (follow instructions from steering stabilizer manufacturer).
- 16. Be sure to test the steering lock-to-lock to check for any interference with wheels or other vehicle parts.
- 17. At this point we highly recommend engaging a professional to get the alignment set. Once alignment is complete, bend the square tabs of the Ninja washers over the hex flats on the adjusting tube and the pointed tabs over the jam nut to secure jam nut. We recommend using medium strength thread locker (blue Loctite 243 or blue Permatex 24206 or other preferred brand) under the jam nuts.
- 18. Using a paint marker across the jam nut and center link provides an easy visual indicator if the jam nuts have loosened.
- 19. Check jam nuts for tightness at 500 miles and monitor jam nuts regularly every 5000 miles or after oil changes for tightness.

If you have any questions or concerns, please don't hesitate to give us a call or email.

Thank you,

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