

**Toyota 4Runner Tie Rods KIT410 (TR230x2) Installation Instructions:**

1. Start by measuring where the center of the ball stud connects to the knuckle then to end of the inner tie rod that connects to the rack. Write down this measurement for later use.
2. Disconnect the outer tie rod from the knuckle and remove it.
3. Remove clamp, then slide the bellows down and off to access the inner joint.
4. With an **Inner Tie Rod Removal Tool** remove the inner tie rod from rack.
5. Disassemble the new APEX tie rod assembly (TR230) by removing the outer tie rod and bellows.
6. Thread the inner tie rod into the steering rack and tighten to **60 ft/lbs** using **Tie Rod Removal Tool and a Torque Wrench.**
7. Slip bellows over the top of the steering rack and install with the supplied zip tie.
8. Install the outer clamp with the boot in the groove of the tie rod.
9. Thread the outer tie rod to inner tie rod and adjust to the measurement taken in Step 1.
10. Before installing the ends, apply a light layer of grease to the top of the boot. This will create a lubricated surface between the boot and the joint, helping to reduce friction.
11. Install the outer tie rod into the knuckle and tighten castle nut torque castle nut (**22mm**) to **67 ft/lbs.**
12. Install cotter pins. If you cannot see through the castle nut and stud, continue tightening until the cotter pin can pass through.
13. We recommend using medium-strength thread locker (blue Loctite 243 or blue Permatex 24206 or other preferred brand) under the jam nuts, then tighten jam nut(**26mm**) to **60 ft/lbs.**
14. Install the grease zerks. Apex tie rods come pre-greased; however, a small amount can be added if necessary. **DO NOT OVERGREASE.**

\*\*\*Over greasing can cause boot to rip or come apart which isn’t covered under warranty

1. Repeat process on other side.
2. At this point we highly recommend engaging a professional to get the alignment set.
3. Check boots and jam nut torque at oil change intervals

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

Thank You,

Team Apex

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