



Toyota Tacoma Tie Rods KIT400 (TR240x1, TR241x1)

At Apex, customer safety is our top priority, and steering is a **CRITICAL** safety component.

****Be sure the installer has read and follows these instructions****

Failure to follow these instructions may result in loss of control of the vehicle, accident, and injury.

Failure to follow install instructions and use correct install tools may also void the warranty.

Install instructions should follow vehicle through entire install process, including alignment, which requires safety-critical torque and process to complete.

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 around inner tie rod and slide the bellows down and off to access the inner joint.
4. Bend tabs back on lock washer between rack and inner tie rod.
5. With an **Inner Tie Rod Removal Tool**, remove the inner tie rod from rack.
6. Disassemble the new APEX tie rod assembly by removing the outer tie rod and bellows (TR241 Pass or TR240 Drivers).
7. Thread the inner tie rod with lock washer into the steering rack and tighten to **60 ft/lbs** using **Inner Tie Rod Tool and a Torque Wrench**.
8. With the inner joint tightened, bend lock washer over wrench flats to inner tie rod.
9. Slip bellows over the top of the steering rack and install with the supplied clamp.
10. Install the outer clamp with the boot into the groove of the tie rod.
11. 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.
12. Thread the outer tie rod to inner tie rod and adjust to the measurement taken in Step 1.
13. Install the outer tie rod end into the knuckle and tighten castle nut. Torque castle nut (**22mm**) to **67ft/lbs. NOTE:** The Apex Chassis logo should be facing right side up on outer tie rod.
14. Install cotter pins. If you cannot see through the castle nut and stud, continue tightening until the cotter pin can pass through.
15. 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**.
16. 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**

17. Repeat process on other side.
18. At this point we highly recommend engaging a professional to get the alignment set.
19. 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,
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