

SPL FRONT TIE ROD ENDS 350Z/G35 300ZX



Insert shank into spindle.



Use 2 supplied gold colored nuts, jam 2 nuts together to help hold the shank. **Torque nut on top of knuckle to 40 ft-lbs. DO NOT USE IMPACT GUN OR OVERTORQUE** otherwise strength of tie rod end will be severely compromised.



Remove the 2 gold colored nuts.



Install spacers. As pictured on left, the tie rod ends are installed with 1 adjustment spacer (flat ring spacer) and 1 misalignment spacer (large cone shaped spacer).

The following pictures show possible bumpsteer adjustment settings, using various combinations of spacers. The stock tie rod end corresponds to the 3rd setting (with 2 adjustment spacers and no misalignment spacer).



For most installations, we recommend using **3rd setting (2 adjustment spacer, no misalignment spacer)**.

Install locking nut on bottom. This nut will take some effort to thread (about 20 ft-lbs of torque) as it is a metal crimping/locking nut. **TORQUE TO 30 ft-lbs.**

Check for binding or any problems by rotating steering wheel lock to lock with car sitting on ground. Check that the spherical bearing does not bind (the edge of the ball bearing hitting or close to hitting the housing) under any situation as shown in the picture below.



Note that the inner tie rod end can rotate freely, so the picture on left is not binding even though the edge of the ball is touching the housing. If uncertain, try rotating the inner tie rod by using a wrench on the hex part of the inner tie rod:

Tighten down the 2 jam nuts that go against the hex buckle of the outer tie rod end.

When getting the car aligned, please adjust toe by turning the inner tie rod. Do not turn the tie rod end buckle, this will not adjust toe.

Length adjustment of outer tie rod ends

Our tie rod ends are preset to a specific length, but in certain cases it may be necessary to make the outer tie rod ends longer or shorter. The outer tie rod ends can be lengthened or shortened on the car using the following procedure:

Loosen the jam nuts on both sides of the hex buckle. Hold the inner tie rod fixed and turn the hex buckle so as to thread in/out the rod end (spherical bearing side). Note that since both the rod end and the inner tie rods are right hand thread, threading in/out the rod end will in turn thread out/in the buckle on the inner tie rod side.

Once the outer tie rod end is long/short enough, tighten down jam nut on the rod end side. Note that for safe thread engagement, the maximum amount of exposed thread on the rod end should not exceed 0.7". Now follow the normal procedure of turning the inner tie rod to adjust the toe.

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