

Steering Gears & Linkage

TOYOTA RACK & PINION

Using torque wrench and guide screw wrench, tighten guide screw to 18 ft. lbs. (24 N.m). Loosen screw about 90° from tightened position.

6) Measure pinion turning torque and adjust by turning guide screw. Acceptable range is 8.7-11.3 INCH Lbs. (.98-1.27 N.m) Tercel, Celica, Cressida, Supra & Tercel models and 6.1-7.8 INCH lbs. (.69-.88 N.m) Starlet.

7) Apply liquid sealer to lock nut and housing contact points, and using torque wrench and lock nut wrench, tighten lock nut to 44-57 ft. lbs. (59-77 N.m). Recheck total preload with a full stroke of the rack.

8) Apply grease to rack end ball joints. Align claw washer with rack groove and tighten rack end into housing. Stake claw washer.

9) Coat rack end dust seal with grease. Clear rack housing tube hole of any grease. Install rack boots. Spring clips must have bends facing outward.

10) Rack boot clamp on pinion housing side should have a gap of .19-.24" (5-6 mm) but tube side clamp should have no gap.

11) Rotate pinion and check rack stroke. Rack stroke should be 4.80" (122 mm). There should be no contour change of rack boots during this operation. Install tie rod ends and position them according to marks made on threads during disassembly.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Intermediate Shaft Pinch Bolts	22-28 (30-38)
Pinion Bearing Adjusting	
Screw Lock Nut	73-94 (99-128)
Rack Guide Screw Lock Nut	44-57 (60-78)
Rack End-to-Rack	48-65 (65-88)
Rack Housing Bracket-to-Body	22-32 (30-44)
Tie Rod-to-Knuckle	37-50 (50-68)
Tie Rod-to Rack End	11-14 (15-19)