

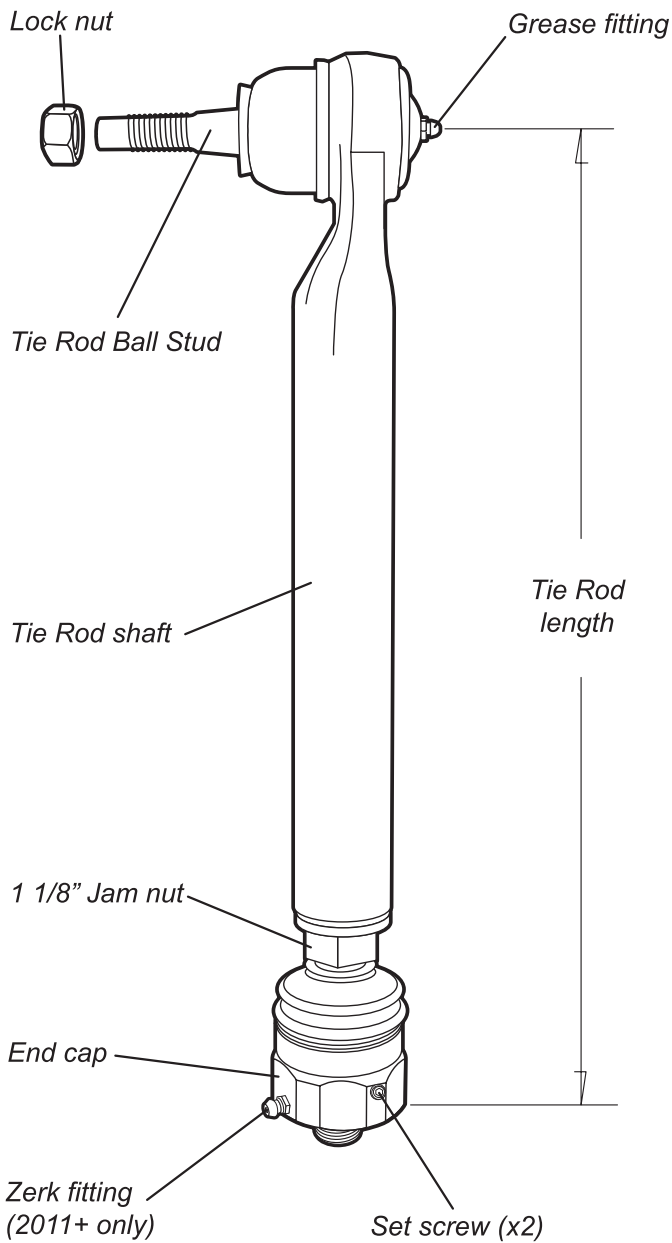
Forged XR Tie Rods

2001-2010 GM 2500/3500 Duramax

2011-2025 GM 2500/3500 Duramax

(158032500), (158032511)

Installation Guide



Installation: *Instructions for installation of new PPE Tie Rods to be performed on each side.*

Remove front wheels and wheel well covers.

- Step 1:** *Vehicle off and secure.*
- Step 2:** *Remove lock nut from stock outer tie rod ball stud. Use a tie rod fork tool to remove tie rod ball stud from tapered hole in steering knuckle.*
- Step 3:** *Unthread stock inner tie rod end from centerlink.*
- Step 4:** *Clean tapered hole and threaded end of center link.*
- Step 5:** *Measure length on removed tie rod from inner face to the center of the grease fitting.*
- Step 6:** *Using measurement from Step 5, adjust the length of the new PPE Tie Rod assembly to match the length of the old assembly.*
- Step 7:** *Tighten Jam Nut to set length using a 1 1/8" wrench.*
- Step 8:** *Apply "red thread locker" and thread in the inner Tie Rod face to centerlink. Torque to 74 lb. ft.*
- Step 9:** *Insert tapered stud into tapered hole in spindle boss. Attach Lock Nut.*
- Step 10:** *Tighten lock nut using a 20 mm wrench. Torque to 48 lb. ft.*
- NOTE:** *A 9 mm wrench can be used to secure stud while tightening the Lock Nut.*
- Step 11:** *Grease outer Tie Rod end and center link with high-grade lubricant.*
- Step 12:** *Perform and confirm proper installation and clearance. Longer sway bar end links may be required.*
- Step 13:** *To adjust toe, use 5/8" wrench on the inner flats if adjustment is necessary.*
- Step 14:** *Confirm/tighten set screws on Tie Rod inners.*
- Step 15:** *Steering wheel and toe adjustment will need to be adjusted to factory specs with a professional alignment.*

Maintenance instructions

- Step 1:** *Disconnect outer Tie Rod from spindle.*
- Step 2:** *Remove both set screws.*
- Step 3:** *Tighten End Cap to eliminate excess play. (do not over tighten) When properly tightened, Tie Rod Shaft is still able to pivot up and down by hand.
Damage may occur if overtightened.*
- Step 4:** *Apply "red thread locker" to Set Screws.*
- Step 5:** *Tighten Set Screws firmly so they contact and seat into the internal Ball Socket threads.*
- Step 6:** *Reconnect outer Tie Rod to spindle.
Thread and tighten Lock Nut to 48 lb ft.*



Inner Tie Rod

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Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

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