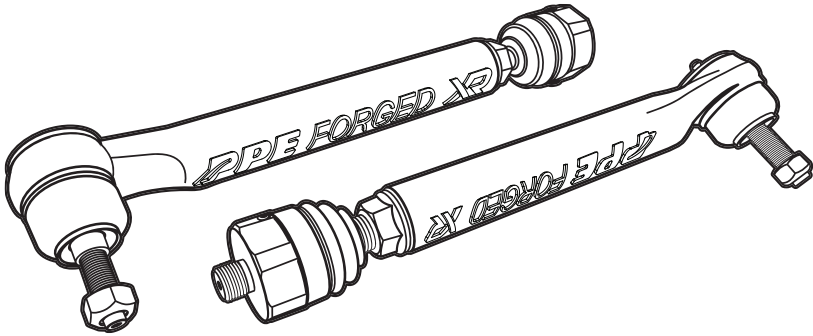




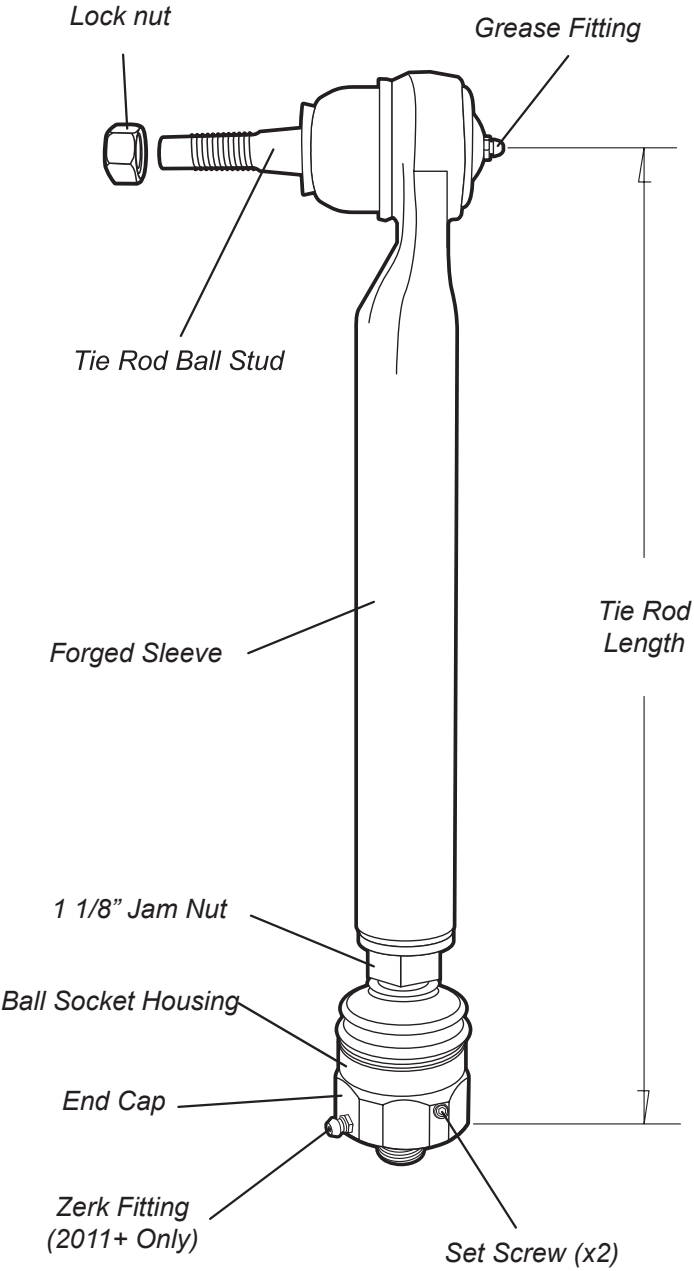
Forged XR Tie Rods

2001-2010 GM 2500/3500 Duramax

2011-2025 GM 2500/3500 Duramax

(158032500, 158032511)

Installation Guide



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

Remove front wheels and wheel well covers.

INSTALLATION:

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

MAINTENANCE INSTRUCTIONS:

1. Disconnect outer tie rod from wheel spindle.
2. Loosen end cap to detach from center link end.
3. Remove both set screws, then remove the end cap.
4. Remove the rubber shim between the ball socket perch and the end cap and replace with a new rubber shim SKU 158032536. **(Fig 1)** Place the new rubber shim in the pocket on the inside of the end cap. Use some grease to keep it in the center while reinstalling the end cap. **(Fig 2)**



5. Regrease the concaved side of the ball socket perch and the ball socket as needed. **(Fig 3)**



6. Reinstall the end cap – make sure to re-align the holes on the end cap with the depressions on the ball socket housing threads. **(Fig 4)**
7. Apply red thread locker to set screws and tighten both set screws firmly.
8. Reinstall tie rod to center link and wheel spindle.



DISCLAIMER OF LIABILITY

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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