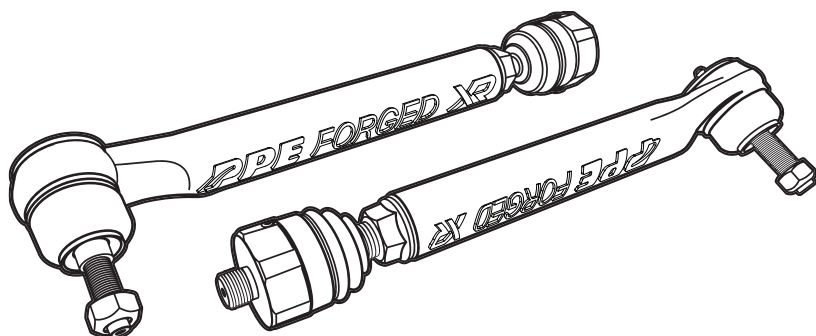
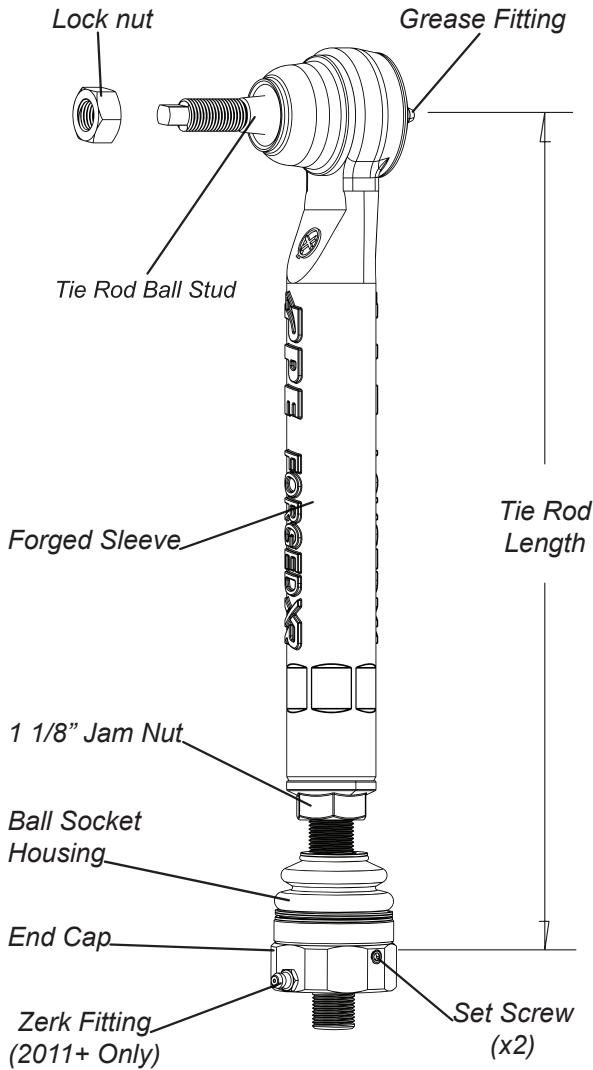




Forged XR® Tie Rods

2001-2010 GM 2500/3500 Duramax

2011-2025 GM 2500/3500 Duramax



**INSTALLATION
VIDEO**



**PRODUCT
RESOURCES**

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.

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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.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

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LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer. The Warranty on PPE Manifolds and Up-Pipes Kits, OEM-Length Up-Pipes is three (3) years, a limited lifetime warranty on PPE cast aluminum pans and covers, and a limited lifetime warranty on PPE Transmission Coolers and one (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.

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