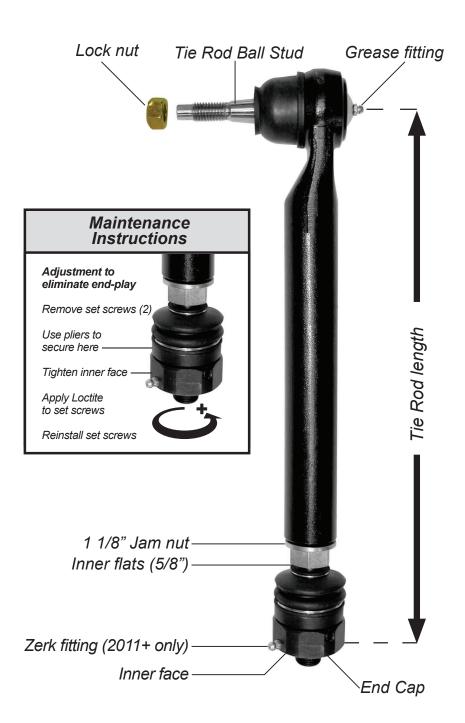


Stage3 Tie Rod Assemblies 2001-2010 - 2011 + GM 2500/3500HD Trucks

(158031500), (158031511)

Installation Guide







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

Remove front wheels and engine shield.

- Step 1: Locate installed tie rods.
- Step 2: Remove Lock Nut from 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 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 lock 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 alignment and clearance. Longer sway bar end links may be required.
- 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.

Upgrade:

Instructions for performance upgrade of PPE Tie Rods to be performed on each side.

A: Loosen or remove set screws and remove end cap.

B: Install performance shim. Replace and tighten set screws. Reinstall end cap.







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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