Stage2 Tie Rod Assemblies
2001-2010 GM 2500/3500HD Trucks
(158031000)

Installation Guide
Stage 2 Tie Rod Assemblies

Adjustable ball socket (preset to “zero” lash)

Lock Nut

Tie Rod Ball Stud

Zerk fitting

Dust cap (Remove)

Tie Rod length

Outer

1 1/8” Jam Nut

(5/8”) Relay Rod wrench flats

Inner

Maintenance Instructions

Adjustment to eliminate end-play

Use pliers to secure here

Tighten inner face

Dust cap (Remove)
**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.

**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.
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