



# Installation Instructions



Product: **HD Drag Link**

Part Number: **PN TR301**

Application: **Grand Cherokee WJ, 1999-04**

## Welcome

CONGRATULATIONS on purchasing a new HD Drag Link from JKS Manufacturing. We are committed to providing you with the best products available and your satisfaction is our first priority.

PLEASE READ these Installation Instructions carefully, and save them for future reference, as they contain important installation and maintenance information.

## Important

**COMPATIBLE WITH** factory tie rod ends. If original tie rod ends are worn or damaged, order new parts from Jeep dealer or local auto parts store as PN 52088511 (Pitman arm end) and PN 52088461 (P/S steering knuckle end).

**REFER TO FACTORY SERVICE MANUAL** for information and procedures not covered in these instructions.

## Tools Required

- Metric/Standard Socket Wrench Set
- Torque Wrench
- 3/4", 1-1/8" & 1-1/2" Open End Wrenches
- Needle Nose Pliers \*
- Tie Rod End Remover
- Tape Measure
- Factory Service Manual (recommended)

\* Asterisk denotes tools that are not required for some applications. Thoroughly read instructions first to determine which tools will be required for your application.

## Installation

### 1. REMOVE ORIGINAL DRAG LINK

- Remove cotter pins and nuts from the pitman arm and passenger side steering knuckle.
- Using a tie rod end removal tool, loosen the ball studs from the pitman arm and steering knuckle, then remove the original drag link from the vehicle. **HINT:** Use special factory tie rod puller tool PN C-3894-A (Miller Special Tools, 800-801-5420) or equivalent to remove tie rod end. Failure to use the proper tool could damage the ball stud and seal.
- Measure the overall length of original drag link.
- If the original tie rod ends are going to be reused, loosen the end clamp bolts and unthread the tie rod ends from the tube.

### 2. INSTALL HD DRAG LINK

- Thread a Jam Nut on to each tie rod end. **HINT:** LH Jam Nuts are easily distinguished from RH Jam Nuts by "tick marks" on circumference of hex points.
- Install tie rod ends into Tube of HD Drag Link and adjust until overall length of HD Drag Link matches the length of the original.
- Using 1-1/8" and 1-1/2" wrenches, tighten Jam Nuts firmly against the Tube of HD Drag Link.
- Install HD Drag Link onto pitman arm and steering knuckle.
- Install original ball stud nuts and tighten to 60 ft-lbs. at the pitman arm and 35 ft-lbs. at the steering knuckle using a torque wrench. **HINT:** If slot in nut does not line up with cotter pin hole, tighten until it is aligned. Do NOT loosen the nut to align cotter pin hole.
- Install new cotter pins.

### 3. POST INSTALL INSTRUCTIONS

A professional steering alignment must be performed following installation of HD Drag Link to ensure vehicle meets proper alignment specifications.