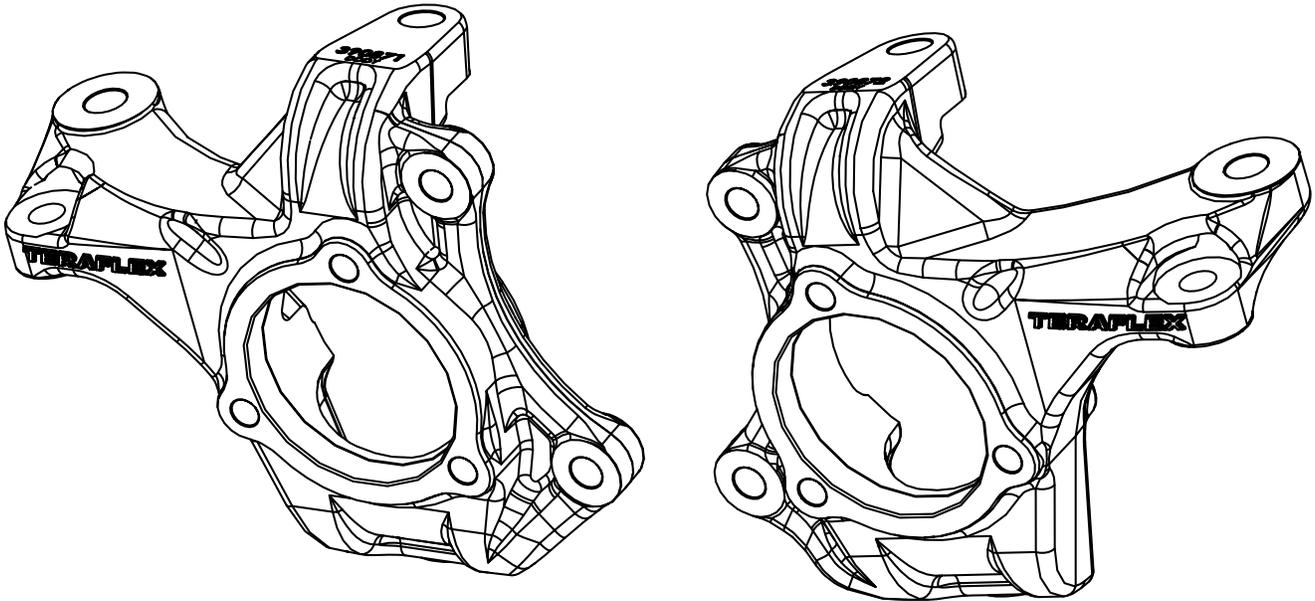




# JK High Steer Knuckles

www.teraflex.com

Kit #4390870



## Important Notes:

Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

This kit requires 4"-6" of lift for proper clearance.

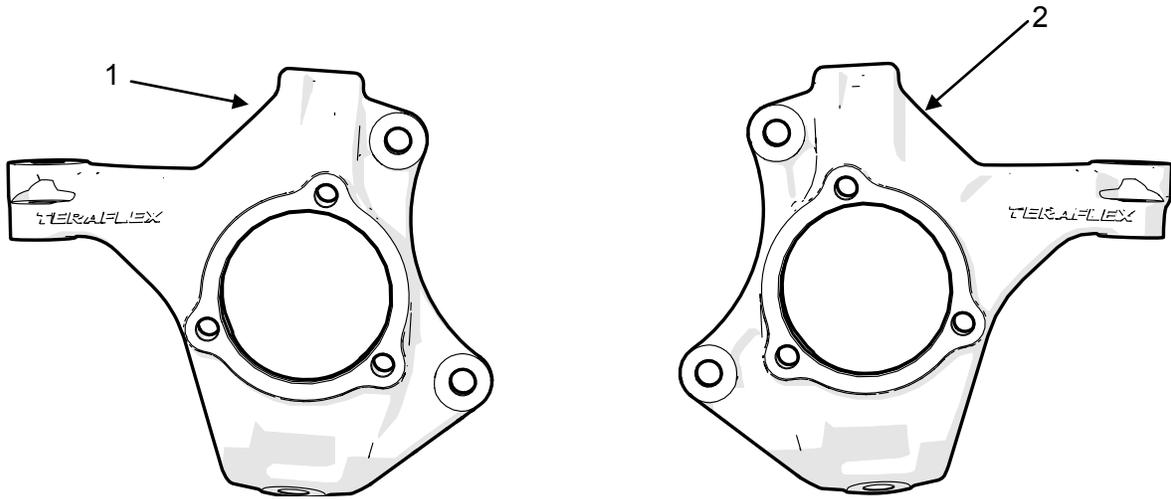
**This kit requires track bar alterations for proper steering geometry as well as a flipped drag link (Kit #1600440)**

A full alignment should be performed after installation. We recommend taking it to your local ASE Certified auto shop.

Refer to the parts list to ensure that all necessary components and hardware has been included. If any parts are missing please contact your local TeraFlex dealer for assistance.

## Tools needed:

- This installation guide
- Basic mechanics tool set
- Mallet or dead blow hammer
- RTV Gasket Maker

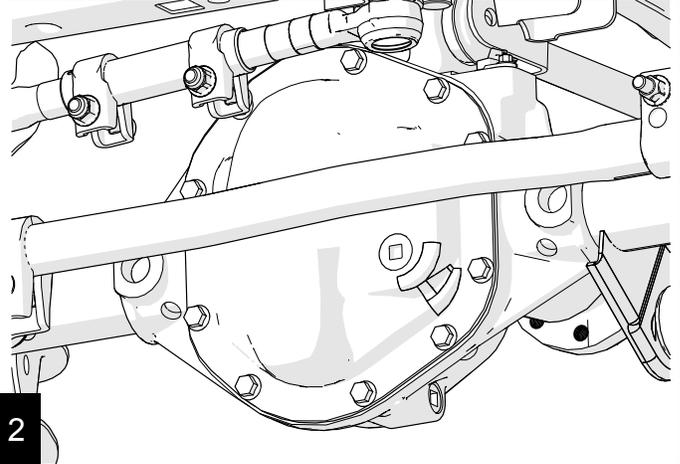


| Parts List  |             |  |          |
|-------------|-------------|--|----------|
| Item Number | Part Number | Description                              | Quantity |
| 1           | 390871      | JK Driver HD High Steer Outer Knuckle    | 1        |
| 2           | 390872      | JK Passenger HD High Steer Outer Knuckle | 1        |

Raise and support the front axle. See the factory service manual for safe support locations. Remove the wheels and tires.

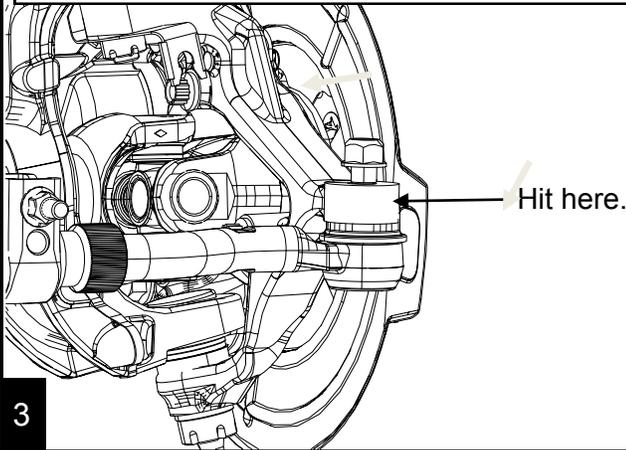
1

Drain the differential of fluid by removing the cover. Clean all mating surfaces of silicone.



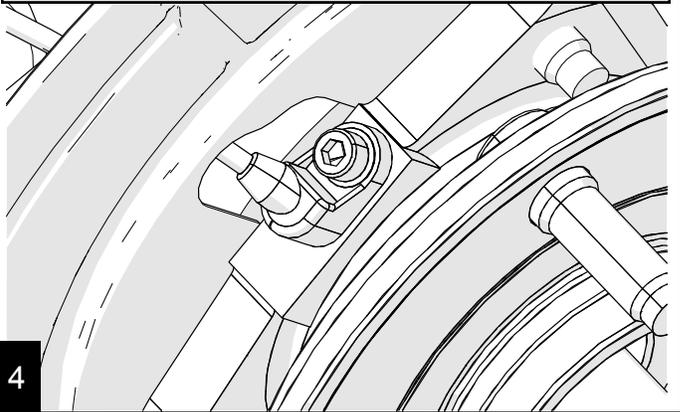
2

Remove the tie rod by loosening the locknuts with a 21mm and hitting the face of the knuckle with a hammer to release the tapers. Then remove the nut completely.



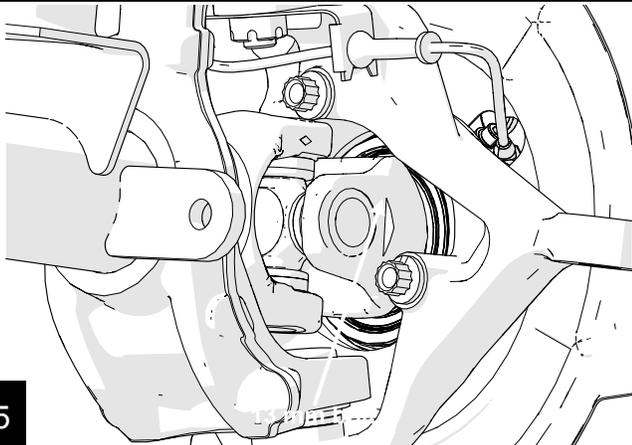
3

Remove the brake caliper and anchor bracket assembly with a 21mm and secure them to the spring with a coat hanger or bailing wire. Remove the rotor. Remove the ABS sensor with a 5mm allen wrench, pry gently.



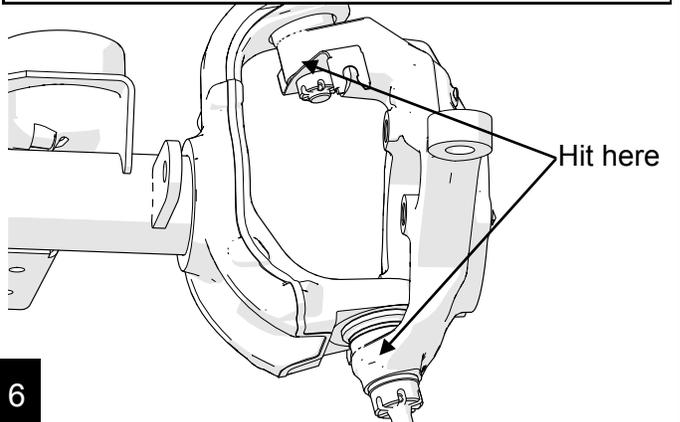
4

Remove the ABS line from the clips. Remove the 3 unit bearing bolts with a 12 point 13mm socket and remove the axle and unit bearing together as an assembly.



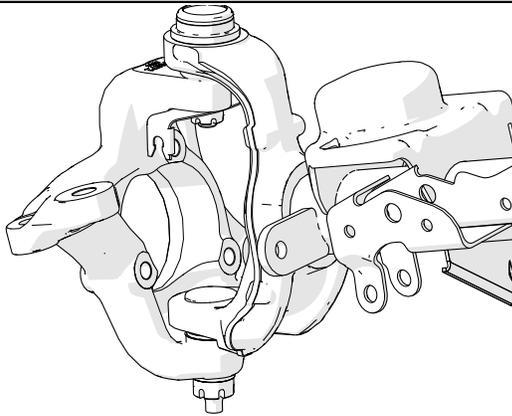
5

Remove both knuckles by removing the cotter pins and loosening the top nut with a 7/8" and the lower with a 1 1/8". Use a hammer and hit the faces of the knuckle to release the tapers, then remove the nuts completely.



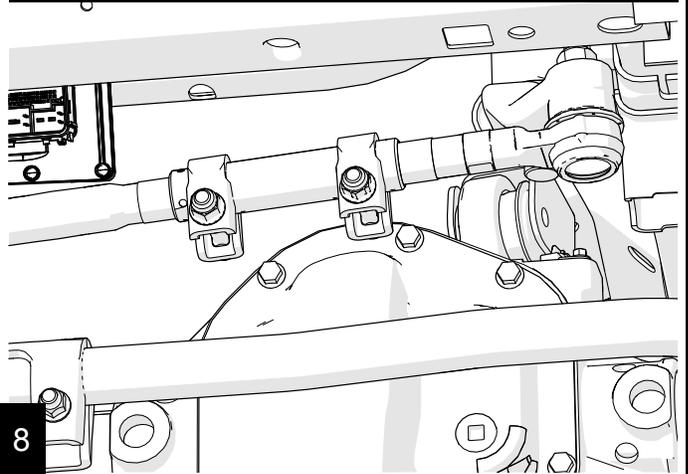
6

Install the new high steer knuckles. Don't forget to reinstall the ABS line brackets on the upper ball studs. Torque top and bottom nuts to 70 ft-lbs. Never loosen castle nuts to achieve cotter pin alignment, always tighten. Install the new cotter pins.



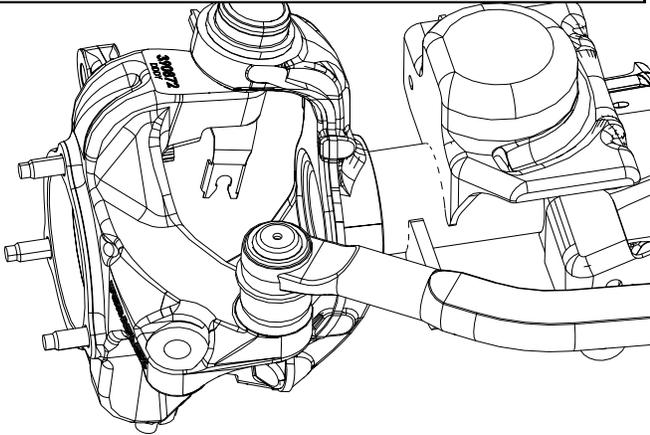
7

Install the new flip drag link into the adjusting sleeve. 41" from eye to eye is a good starting length.



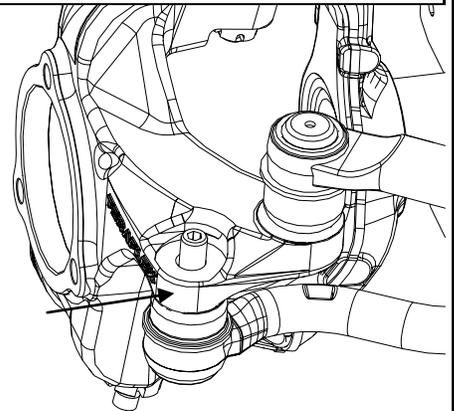
8

Install the new drag link to the knuckle. Torque to 65 ft-lbs.



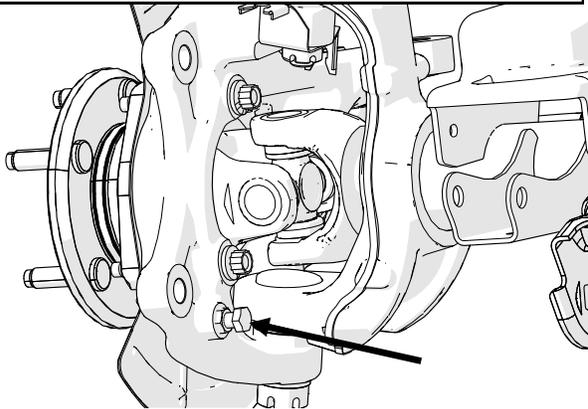
9

Install the factory tie rod into the outer most holes in the knuckles. Torque to 65 ft-lbs.



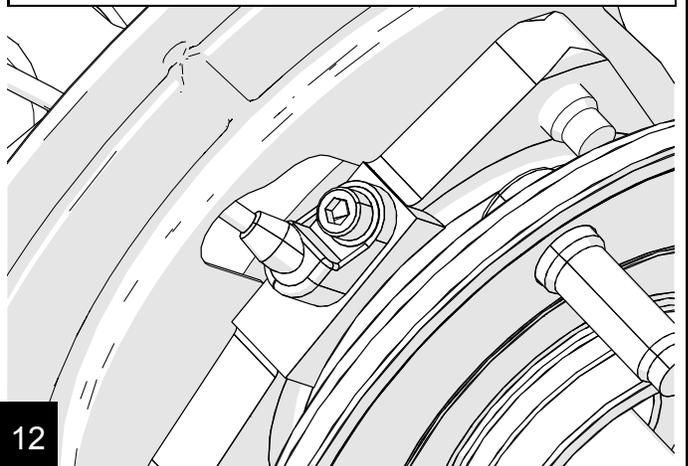
10

Reinstall the axle shafts. Support the shaft to avoid seal contamination and damage. Torque unit bearing bolts to 100 ft-lbs. Using a 9/16", transfer the steering stop bolt from your factory knuckle into your new knuckle.



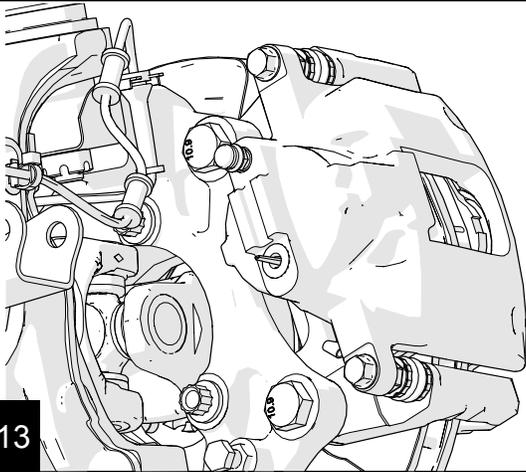
11

Reinstall the ABS sensor with a 5mm allen wrench. Torque 60-80 in-lbs.



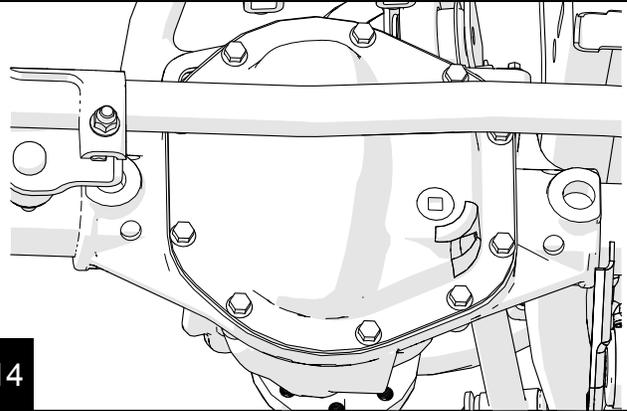
12

Reinstall brake rotors and calipers with a 21mm. Torque caliper anchor bolts to 120 ft-lbs.



13

Reinstall the differential cover. Be sure that all silicone and oil residue has been removed. Apply a 3/16 bead of gasket maker. Torque bolts in criss-cross pattern to 30 ft-lbs. Fill with oil.



14

Reinstall and torque the wheels and tires to 95-115 ft-lbs. Lower the Jeep and do a quick track bar adjustment. The axles should be centered under the vehicle. Torque the adjustment sleeve bolts to 26 ft-lbs.

15

Verify steering wheel adjustment with a test drive. If the axle is centered under the Jeep, make your final steering wheel adjustments with the drag link adjusting sleeve. Torque adjustment sleeve bolts to 26 ft-lbs.

16

## PRODUCT INFORMATION

### MAINTENANCE INFORMATION:

It is the buyer's responsibility to have all suspension, drivetrain, steering, and other components checked for proper tightness and torque after the first 100 miles and every 3000 miles after that.

### NOTICE TO INSTALLER:

The enclosed "Warning to Driver" sticker must be installed in the vehicle in driver's view. This sticker is to act as a constant safety reminder when operating the vehicle. It is your responsibility as the equipment installer to install the provided sticker and to forward the product instructions to the vehicle's owner for review. If a "Warning to Driver" sticker or product installation guide were not included in the kit, FREE replacement stickers and instructions are available by request. It is the installer's duty to ensure a safe and controllable vehicle after the modifications have been performed.

### WARNING:

Neither the seller nor the manufacturer will be liable for any loss, damage, or injury directly or indirectly arising from the use of or inability to determine the use of these products. Before using, the user shall determine the suitability of the products for its intended use, and the user shall assume all responsibility and risk in connection therewith.

### WARNING TO DRIVER:

This vehicle has been modified to enhance off road performance and has unique handling characteristics. Use in harsh environments can cause extreme stress on the components. Vehicle should be inspected after being off road to make sure that all the components are in working order and safe to travel on the highway. All fasteners should be checked so that they are at the correct torque specifications as the vibration and stresses from off roading may cause critical fasteners to work loose. Extra care should be taken to inspect the critical components, steering, and brake systems. During each oil change components such as arms, tie rod ends, etc should be greased and checked for excessive wear. Any worn components should be replaced. When returning to the pavement always set or restore tire air pressure to the factory recommendation and connect or engage any disabled sway bar mechanisms. Because of the higher center of gravity and larger tires, this vehicle handles and reacts differently than many passenger cars, both on and off road. You must drive it safely! Extreme care should be taken to prevent vehicle rollover or loss of control, which can result in serious injury or death. Avoid sudden sharp turns or abrupt maneuvers. Generally, braking performance and capabilities are decreased when significantly larger/heavier tires are used, especially when used in combination with transfer case low-range reduction kits. Take this into consideration while driving. Do not add, alter or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the TeraFlex product purchased. Mixing component brand is not recommended. TeraFlex Inc. will not be responsible for any altered product or any improper installation or use of our products. We will be happy to answer any questions concerning the design, function, and correct use of our products. It is ultimately the buyer's responsibility to have all bolts/nuts checked for tightness after the first 100 miles and then every 3000 miles. Wheel alignment, steering system, suspension and drive line systems must be inspected by a qualified professional mechanic at least every 3000 miles.

### TERAFLEX PRODUCT WARRANTY:

TeraFlex Inc. warrants TeraFlex Suspension products to the original retail purchaser to be free of defects in material and workmanship for as long as the original purchaser owns the vehicle on which products were originally installed.

Failure to complete regular maintenance (grease every 3000 miles) on TeraFlex FlexArms will void this warranty. All other conditions of the standard TeraFlex product warranty apply.

All TeraLow products are covered by the TeraFlex two (2) year warranty to be free of defects in material and workmanship for two years from date purchased.

TeraFlex axles are covered by a 12-month warranty to be free of defects in materials and workmanship.

This warranty does not cover or include product finish, improperly installed or applied products, improperly maintained products, products or components used for racing or competition or damage due to abuse or neglect, products that fail due to the use of larger tire and wheel combinations.

All returns must be accompanied by an original invoice. It is the customer's responsibility to remove the product from the vehicle. Shipping charges are the responsibility of the customer. TeraFlex Inc. will pay the return freight if the product meets the terms of warranty.

This warranty is for the replacement or repair of defective TeraFlex products only and does not include freight charges, labor charges for removal of or installation of TeraFlex or related products or components, costs incurred due to down time of the vehicle, or lost profits due to vehicle down time.

A returned goods authorization number (RGA#) must accompany any returned products. For more information please contact a TeraFlex customer service representative.

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