



# Tera30 & Tera44 Axle Tube Seals

[www.teraflex.com](http://www.teraflex.com)

Kits #4354025 and #4354050



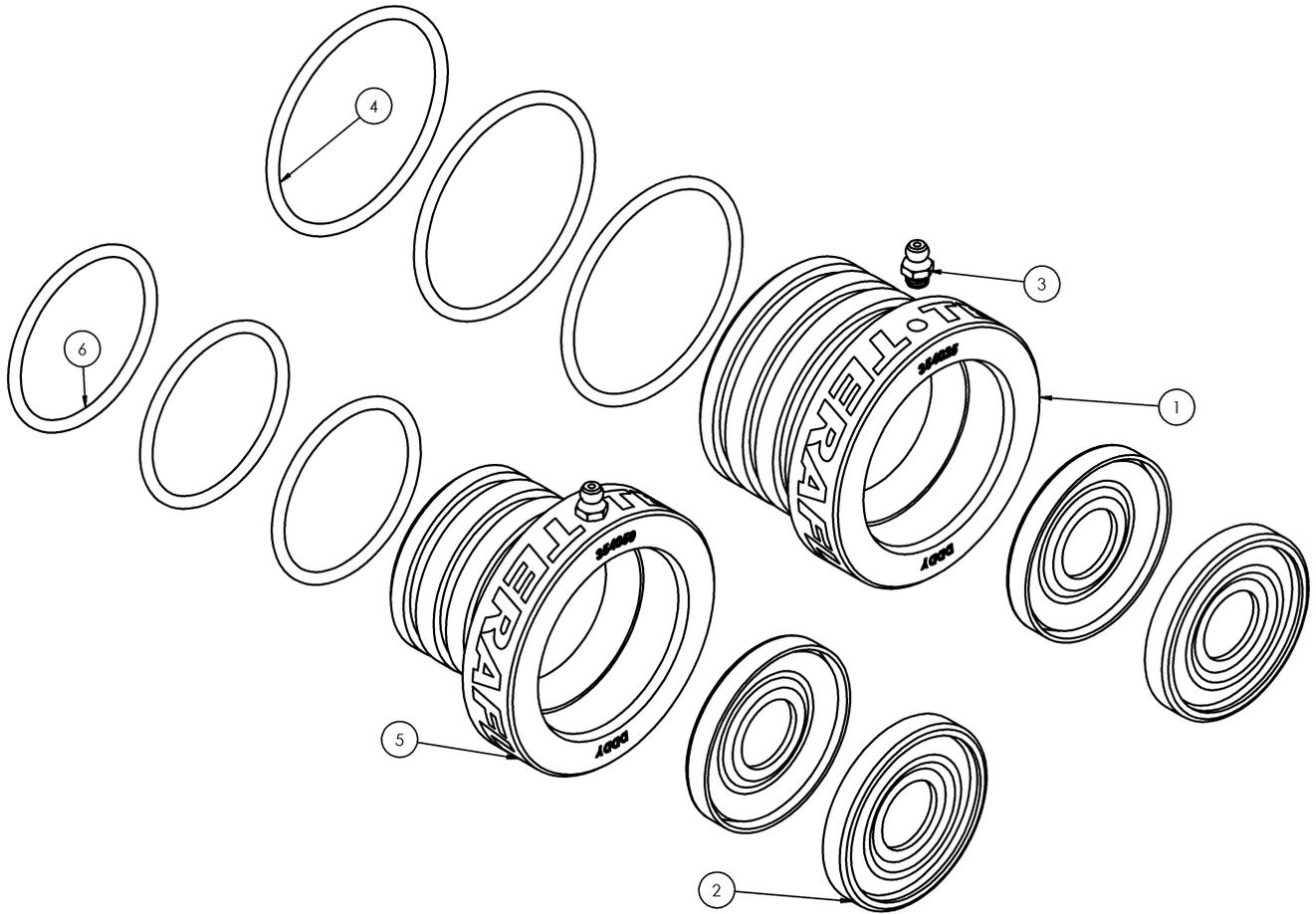
## Important Notes:

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.

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

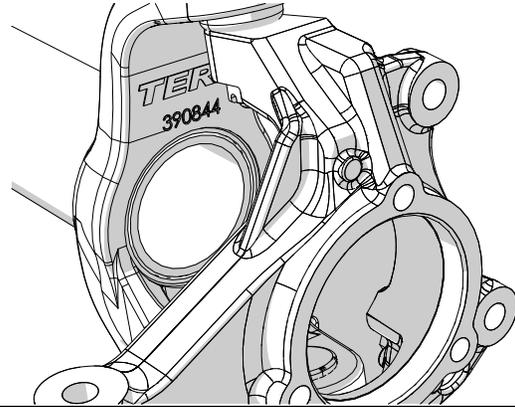


ITEM NO.	PART NUMBER	DESCRIPTION	4354025/QTY.	4354050/QTY.
1	354025	Tera 30 & 44 .25" Wall Axle Tube Seal Housing	2	-
2	354027	Tera 30 & 44 Outer Axle Tube Seal	4	4
3	308	Grease Zerk 1/4"-28 UNF Straight	2	2
4	354026	O-Ring 2.5" ID x 1/8" Cross Section for .25" Axle Tube Seal	6	-
5	354050	Tera 44 .50" Wall Axle Tube Seal Housing	-	2
6	354051	O-Ring 2" ID x 1/8" Cross Section for .50" Axle Tube Seal	-	6

Raise and support the vehicle. See the factory service manual for safe support locations. Remove the front tires, brakes, and axle shafts. Note: be sure that any plastic axle shaft guides come out with the axle.

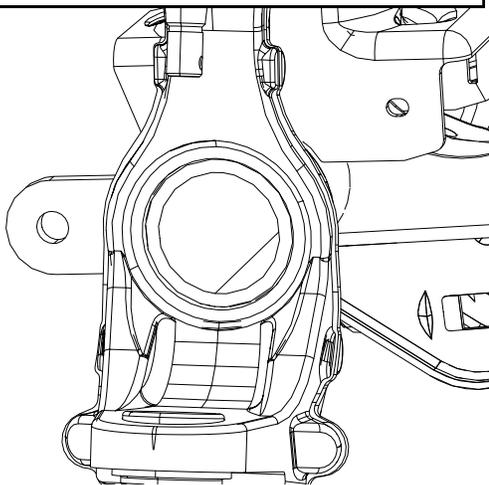
1

The axle shaft and unit bearing can be removed as an assembly by removing the three bolts that secure the unit bearing with a 12 point 13mm. Be sure to remove the ABS sensor prior to removal with a 5mm allen.



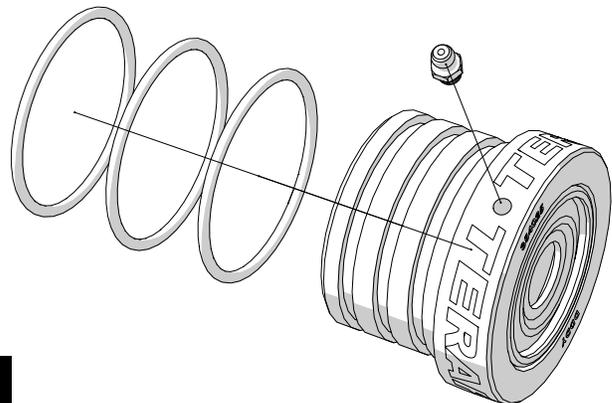
2

Ensure that the inside diameter of the axle tube is free from debris and burrs.



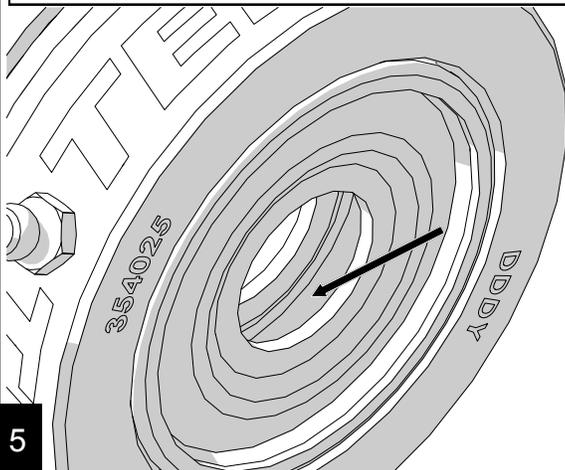
3

Install the zerk into the seal housing and tighten with a 5/16 wrench. Be careful not to over-tighten. Install the three O-rings into each of the three grooves on the seal housing.



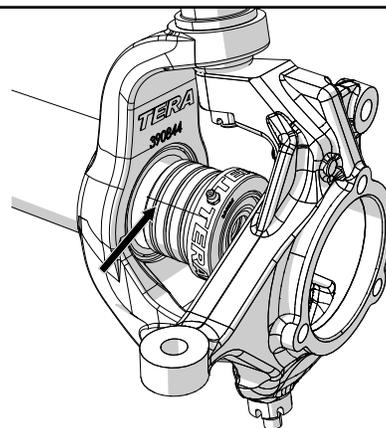
4

Coat the inner walls of the seals and seal housing with 1/8" to 3/16" thick coating of grease. Coat the lips of the seals as well.



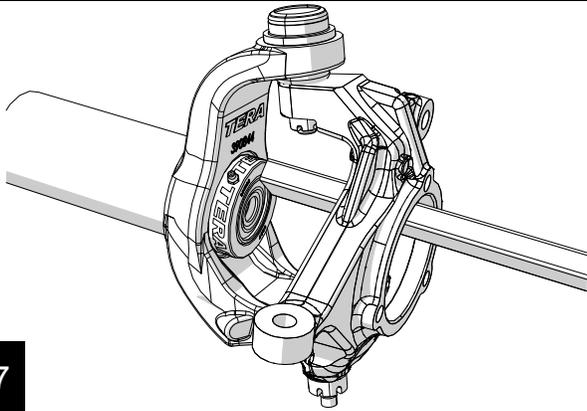
5

Apply a light coating of grease to the O-rings on the seal housing before pushing it into the axle tube. Rotate the axle tube seal assembly for easy grease zerk access.



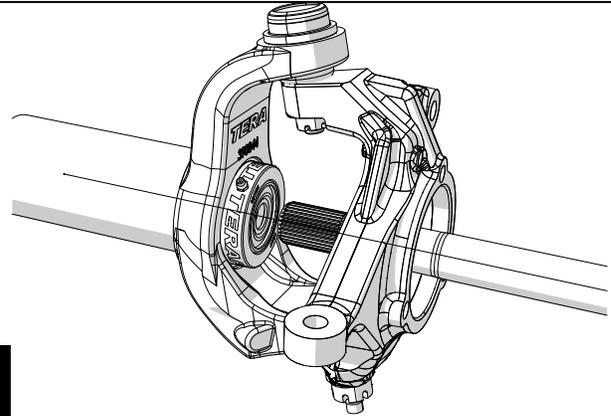
6

Push the seal housing into the axle tube. Tap on the flange using a piece of wood to prevent marring the anodized finish. Alternate sides between taps until the seal housing is seated against the axle tube.



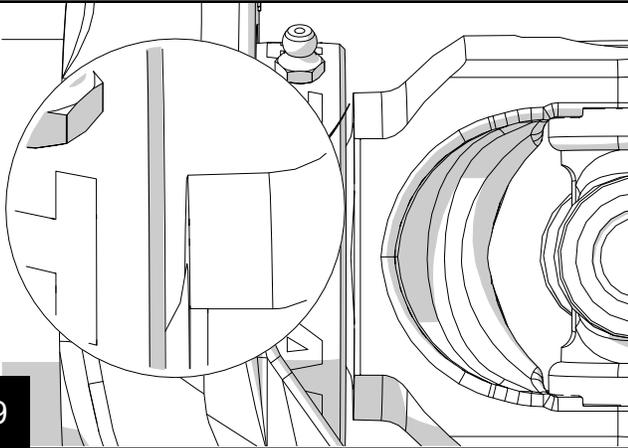
7

Clean the inner axle shaft and apply a small amount of grease on the axle shaft splines. Carefully slide the axle shaft through the seals and engage it in the carrier. Take care not to damage the inner seal.



8

Reinstall the unit bearing, ABS sensor, brakes, wheel and tire. Ensure that the axle shaft forging does not contact the seal housing. Repeat process on opposite side.



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### Important notes

The TeraFlex seal housing has been designed to work with factory axle shafts. Due to differences in axle forgings, there may not be adequate clearance for shafts made by all manufacturers. The grease zerk allows grease to be pumped into the seal cavity with out having to disassemble the wheel end. **DO NOT** over fill the seal cavity! The soft seals will bulge and the seal "sidewall" will contact the axle shaft end forging. This will wear a hole in the seal and cause failure very quickly.

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## 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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**TERAFLEX**, Inc.  
5680 West Dannon Way  
West Jordan, Utah 84081  
Phone/801.713.3314  
Fax/801.713.2313  
[www.teraflex.com](http://www.teraflex.com)