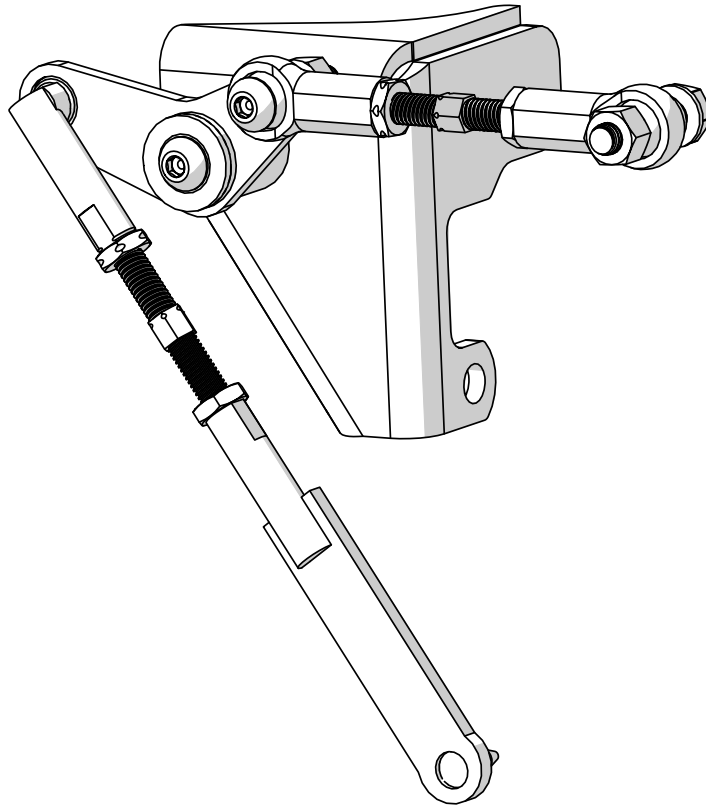




# 231J Transfer Case Shift Linkage

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

Kit #4947100



## Important Notes:

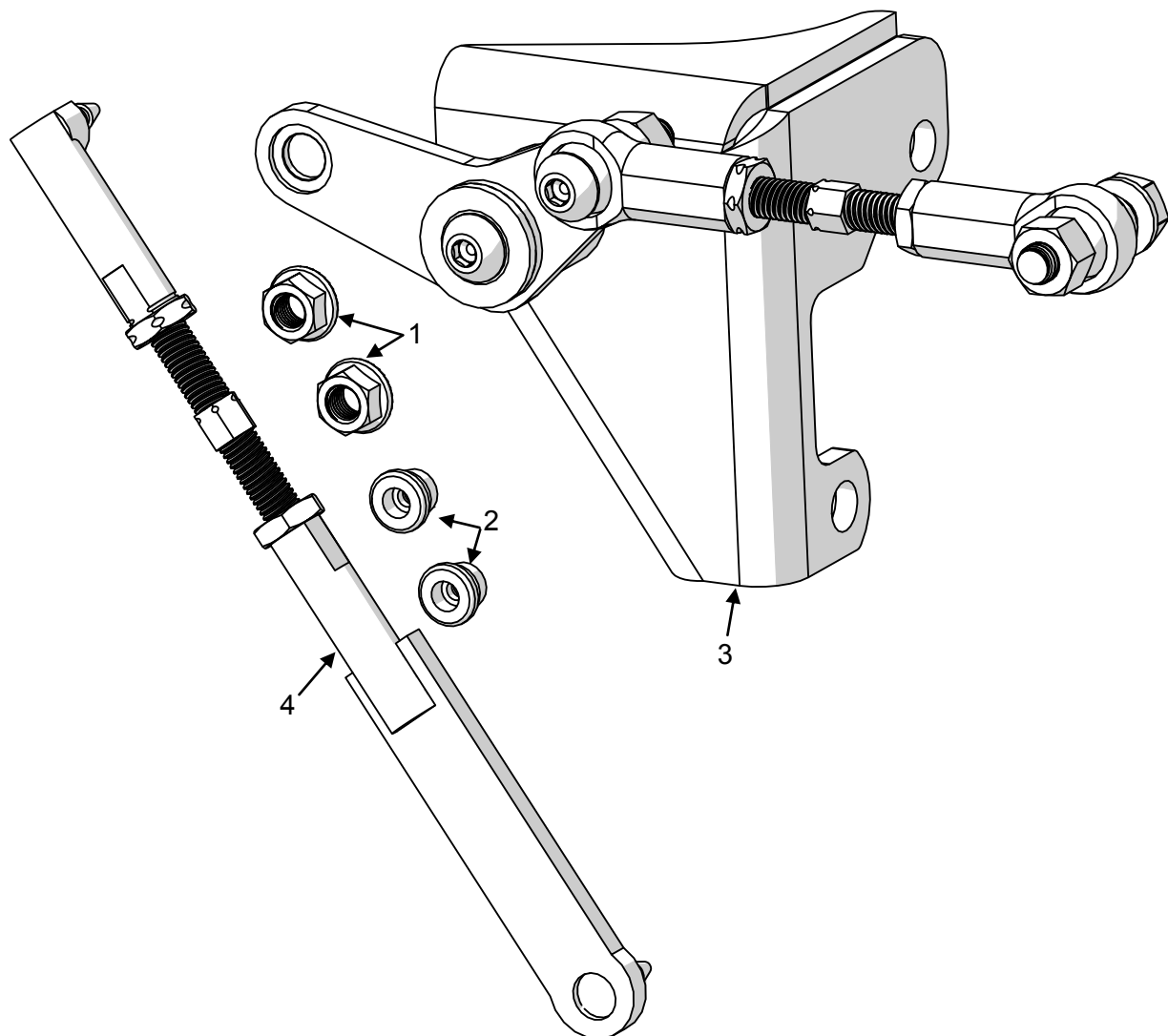
Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

This kit is for 1997-2002 Automatic TJ Wranglers. It does not clear the casting on the AX15 transmission. Extensive trimming of the new bracket is required for clearance.

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
- Thread Locker

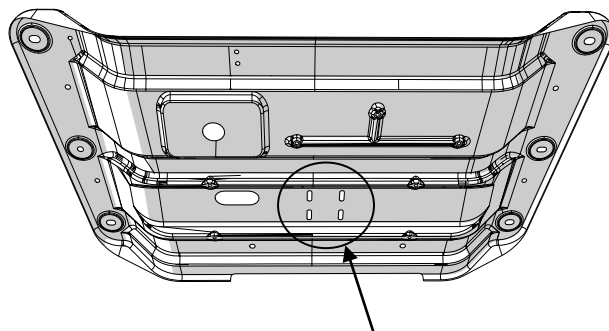


Parts List			
Item Number	Part Number	Description	Quantity
1	104	3/8"-24 UNF Flange Serrated Nut	2
2	53004810	NP231 Shift Linkage Bushing Grommet	2
3	947110	TJ Linkage w/ Bracket Assembly	1
4	947120	Adjustable Transfer Case Torque Shaft Rod	1

Park on a level surface, set the parking brake and place the transfer case in neutral. Safely support the vehicle so you can work underneath. Use a jack to support the transfer case and transmission. The transfer case and transmission must be supported at stock height relative to the vehicle for proper linkage adjustment.

1

Remove the four nuts holding the transmission mount with a 13mm. The plate is heavy, you will need a jack or another person to help stabilize as you remove the six mounting bolts with a 3/4".



2

Remove the stock linkage. To remove the bracket from the body tub, pull back the carpet on the drivers side of the drivetrain tunnel. The bolts are below the transfer case shifter.



3

Install the new bracket onto the transfer case. Use the new flange nuts provided in the kit.

Top drivers  
side stud



4

Remove the plastic bushing from the shift lever that sticks down through the floor of the body tub.



5

Assemble the shift linkage to the factory lever using the metal bushing to replace the plastic bushing in the lever. Note: We recommend using a thread locker on shift linkage fasteners.



6

Adjust the new link to be approximately the same as the factory lower link. Install the new lower link and check operation.



7

Adjust the length of the links and tighten the jam nuts. Some applications will require shortening of the upper threaded rod. Use caution when trimming to ensure that too much is not removed. We recommend using the "neutral" position as a starting point.



8

Reinstall the skid plate. Be sure to align the transmission mount studs into the holes before tightening the skid plate bolts. Torque skid plate bolts to 33 ft-lbs. Torque transmission nuts to 26 ft-lbs.

9

Note: Adjustment of the upper link must be done with the transfer case in its operating position. For example, because the transfer case skid plate was removed, ensure the transfer case is not above or below where it would be with the skid plate installed.

10

## 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)