

# TERAFLEX

## INSTALLATION GUIDE

### *Installation Guide for the for the WJ Long-Arm Kit Part #001497700(LAW)*



**NOTE:** This kit is designed for a *MINIMUM* of 3 inches of lift.

This kit is designed specifically for use with TeraFlex lifts and suspensions. It replaces standard-length control arms with new, longer lower control arms. The upgrade will improve on-road driving comfort as well as off-road performance.

**This Kit Includes:**

	<b>QTY:</b>
Front Brackets	2
Rear Brackets	2
Front Lower Arm Assembly	2
Rear Lower Arm Assembly	2
1/2" Arm Spacers	4

**NOTE:** Professional welding is required for this kit.

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**INSTALLATION WARNING:**

We recommend that certified technicians perform this installation. Attempts to install this product without proper training or experience may jeopardize the safety of you and the vehicle. These instructions are meant only as a guideline for the installation procedure and are not meant as the definitive source. The Factory Service Manual should be used in conjunction with this instruction guide when installing the components. Read this instruction guide thoroughly before beginning the installation process.

Be sure you have all needed parts and know where they will be installed. Read each step completely as you go. If any parts are missing from the kit please call 801-288-2585 for replacement. Take every precaution to make this installation a safe procedure. Make safety the number one priority with any suspension or lift installation. Read all safety, warranty, and maintenance information included at the end of the instruction guide.

### **FRONT INSTALLATION:**

1. Jack up the vehicle and secure with jack stands.
2. Support the transmission and transfer case.
3. Remove the skid plate and cross member plate.

**Note:** now would be a good time to check the condition of your factory transmission mount and replace it if it's broken or worn out.

4. Temporarily install the TeraFlex Long Arm Brackets, which line up with the factory cross member bolts, and mark around the edges.
5. Remove the bracket and grind away the paint and undercoating where you marked to allow for a good weld.
6. Put the brackets back on and quick check the cross member plate to make sure it won't interfere with the new brackets.
7. Do the final welding.
8. Spray paint the brackets and welds to help keep them from rusting.



9. Bolt the crossmember plate back on. Reuse drop spacers if they were already on the vehicle.



10. Remove the factory lower control arms.
11. Using a sawzall and grinder, cut off the factory lower control arm mounts from the front of the vehicle. Do not cut into the unibody.
12. Grind and paint where the mounts were removed to minimize rust.
13. Using the factory front bracket and hardware, install the new TeraFlex long arms to the factory axle mount. Set the length to 31", then attach the long arm to the TeraFlex long arm bracket using the original bolts and nuts.



2. Remove the bracket and grind away the paint and undercoating to allow for a good weld.
3. Put the brackets back on and do your final welding.
4. Remove the factory lower control arms.
5. Using a sawzall and grinder, cut off the factory lower control arm mounts from the rear of the vehicle.
6. Grind and paint where the mounts were removed to minimize rust.



7. Using the factory rear bracket and hardware, install the new TeraFlex long arms to the factory axle mount. Use the spacers provided to mount the flex joint in the axle bracket. Then attach the long arm to the TeraFlex long arm bracket using the original bolt and nut. Set the arm to 36" long.

Spacer

### **REAR INSTALLTION:**

1. Check the rear brackets for fit and mark around the edges. The brackets line up with existing holes in the unibody.
- NOTE:** if your WJ does not have holes in the unibody to line up with, then measure from the rear of the bracket to the line in the unibody about 2 inches as shown in the photo below.



## **ALIGNMENT NOTES:**

### **Four Wheel alignment is required.**

After installation of the TeraFlex Long-Arm suspension kit, it is imperative that the alignment angles be checked. It is recommended that your WJ be taken to a reputable alignment shop that understands 4WD vehicles and has experience with their alignment parameters.

Caster might be changed with the installation of our suspension kit. It is recommended that the factory specifications be maintained.

Toe-in is also important for tire wear. Toe-in may be affected on a three-inch kit, and will be affected on a four-inch kit. Set toe-in to minimum factory specifications if you go to the larger tire and wheel set up.

**NOTE:** after your alignment is checked make sure that the modular ends of your long arms are centered.

## **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. 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 Tera Manufacturing product purchased. Mixing component brand is not recommended. Tera Manufacturing 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:**

Tera Manufacturing 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 Tera Mfg. product warranty apply.

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

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

The TeraFlex T-Locker is covered by a three (3) year 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. Tera Manufacturing will pay the return freight.

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.

WRONG



RIGHT

