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# INSTALLATION GUIDE

## Installation Guide for the Cherokee Rear Shackles Kit Part #001974100 (RSX)



### Rear shackle installation

1. Place the vehicle on a clean, level working area. Set the emergency brake and block tires on the side of the vehicle opposite of the side you will be installing the shackle. Be sure the vehicle will not roll.

**Note:** Do not use power impact or air ratchets to tighten nuts. Lock nuts with nylon inserts (aircraft style) should only be tightened by hand with a wrench.

2. Using a floor jack, lift the rear of the vehicle until the wheels clear the ground by at least three inches. Place jack stands under frame rail just behind the inner spring perch. Lower the vehicle onto jack stands, but keep the axle supported with the floor jack.
3. While the axle is being supported by the floor jack, remove the stock shackles and hardware. Carefully release the pressure on the floor jack until the wheels rest on the ground.
4. Examine the upper spring perches (also referred to as frame spring shackle mounts) on both sides of vehicle for any damage. If any damage is noted, it must be repaired to "new" factory original condition before this spring shackle kit can be installed.
5. Examine the upper spring perch bushings on both sides of vehicle for any damage or excessive wear. If any damage is noted, the bushing must be replaced with new, factory-original units.
6. Install spring shackle lift and hardware to upper spring perch or frame mount or bushing. DO NOT FULLY TIGHTEN at this time.

7. Using the floor jack, raise the axle until the leaf spring and bushing fit inside the new shackle unit. Insert the new bolt with washer through shackle and spring bushing. Install washer and nylock nut.

**Note:** If the bolt seems to "hang up" and it will not go through both sides of shackle, adjust hole alignment by lifting or lowering axle and spring with floor jack or reinsert bolt and washer from the opposite side. DO NOT POUND bolt through the holes. This could result in damage to the bolt, shackle, and/or bushing.

8. Check your factory repair manual for proper torque specifications. Be sure the torque specifications are for the proper year, make, and model of your vehicle. Tighten to proper factory specifications. Be careful to not overtighten bolts. Damage to shackle or vehicle can result.
9. After all steps have been completed on both sides of the vehicle, the installation is complete.
10. On some applications the rear exhaust will come in contact with the shackle bolt (see photo). It will be necessary to have the exhaust re-aligned or adjusted to clear the shackle bolt.



# **TERAFLEX** **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:**

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 TeraFlex product warranty apply.

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

Tera 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. Tera Manufacturing 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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