

TERAFLEX

INSTALLATION GUIDE

Installation Guide for the WK Grand Cherokee and XK Commander Budget Boost Part #001361200



NOTE: This kit provides 2 inches of lift.

Think safety when installing your new suspension lift. The TeraFlex suspension kit you are about to install was designed specifically for the WK Grand Cherokee and XK Commander.

Warning: Disassembly of the vehicle suspension is required and should only be performed by a qualified technician. A wheel alignment will be required after installation of the suspension lift.

This Kit Includes:	QTY:
Front Strut Spacers	2
Rear Coil Spacers (1 or 2 piece design)	2
12 mm nuts	8
Flat Washers	8
10mm x 75mm bolts and washers	2

INSTALLATION:

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.

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FRONT INSTALLATION:

1. The front suspension struts must be removed to install the Budget Boost spacers. Before raising the vehicle, disconnect the negative battery cable. Jack up the vehicle and secure with jack stands.

2. Remove the air hose from the air filter box and move the coolant overflow bottle to provide access to the strut upper mounting nuts on the passenger side.



3. Remove the fasteners and move the Power Distribution Center to gain access to the driver side strut upper mounting nuts. **Do not disconnect the wires.**



4. Raise the vehicle and support it with stands. Make sure it is supported high enough to remove the front suspension strut assemblies.

5. Remove the front tires.

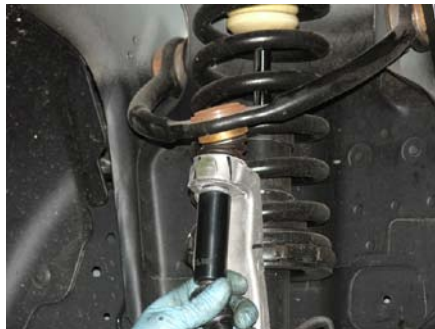
6. Disconnect the anti sway bar link at the lower control arm.

7. Disconnect the tie rod end at the knuckle.

8. Remove the large nut from the end of the axle shaft so the shaft won't pull out of the front axle when you tilt the steering knuckle away from the vehicle.



9. Use a floor jack to support the lower control arm and remove the upper ball joint nut. Separate the ball joint from the upper control arm.



10. Lower the floor jack to relieve all spring tension and remove the lower strut mounting bolt where it mounts through the lower control arm.

11. Working from above, remove the 4 nuts that secure the strut to the inner fender/unibody and remove the strut from the vehicle as an assembly.

12. Install the new TeraFlex strut spacer to the top of the factory strut using the supplied washers and nuts.

NOTE: You might have to grind some of the pointed tip off the factory studs to clear the new spacer studs.



13. In order to install the strut with the 2 inch spacer it is necessary to remove the lower control arm mounting bolts at the sub frame. Mark the position of the bolts and remove them to allow the lower control arm to drop down just enough to install the longer strut. Do not completely remove the control arm or knuckle.



Attach the lower end of the strut and use the floor jack to raise the control arm and strut up into place, then install the 4 upper nuts. Reinstall the control arm lining them up the cam bolts as near as possible to the original location.



14. Reassemble the steering knuckle, tie rod, sway bar link and axle center nut in the reverse order of removal.

15. Complete the same steps on the opposite side to finish the front installation.



REAR INSTALLTION:

1. Remove the rear tires.

2. Support the rear axle and remove the rear sway bar links and rear shocks

3. Remove the axle end bolt on the left rear upper control arm.

4. Carefully lower the rear axle and remove the springs.

5. Remove the yellow urethane bumpstop and unbolt the bumpstop cup.



6. Install the upper coil spacer along with the isolator pad and bumpstop cup removed in step 5. Use the longer bolt provided in the kit - 10 mm x 75 mm long.

7. Reinsert the yellow urethane bumpstop and reinstall the rear coil spring.

8. Repeat these steps on the opposite side of the Jeep.

9. Reassemble in reverse order.

10 Set alignment to factory specifications and enjoy!

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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