

# TERAFLEX

## INSTALLATION GUIDE

# Installation Guide for the JK Wrangler 2.5" Inch spring lift

Read the entire installation guide before beginning installation. These instructions apply to the following kit part numbers

1351000	2.5" Inch JK Lift Kit
1352000	2.5" Inch JK Lift Kit & Adapters
1251000	2.5" Inch JK Lift Kit & Shocks

**Keep this a safe operation by properly supporting the vehicle during installation of the TeraFlex suspension lift kit.**

### Kit includes:

New coil springs  
Rear sway bar links  
Front upper bump stop extensions  
Rear track bar bracket  
Rear coil spring retainers

Front and rear shock adapters (kit 1352000)  
Rear lower bump stop spacers  
Rear brake line extension brackets  
Hardware pack

### REAR INSTALLATION:

1. Lift the vehicle and support under the frame so that the axles will be able to drop far enough to remove and replace the coil springs.
2. Remove the tires.
3. Support the rear axle and remove the rear shocks.
4. Remove the rear sway bar links.

**NOTE:** Save rear sway bar links for reuse on the front end.

5. Remove the clips that secure the ABS wiring harness to the upper control arm mount.



6. Disconnect the brake line bracket at the frame but do not disconnect the brake lines from the calipers.
7. Remove the bracket that holds the park brake cables to the body.



8. Unbolt the frame end of the track bar.
9. Loosen all rear control arm bolts **do not remove arms or bolts!**
10. Carefully lower the rear axle far enough to remove the rear springs. Be careful not to let the coils fall out as you lower the axle. You will want to lower the axle enough to get your new 2.5" coil springs in place. While lowering the axle, watch the brake lines, ABS wires and the breather hose to make sure they do not stretch as this could cause damage to these vital parts.
11. Install the new 2.5" rear coil springs and raise the axle just enough to hold the rear coils in place.  
**NOTE:** Don't forget to reuse the factory spring isolator. If the isolator is left out your ride height will be about a 1/2" lower in the rear. The isolator also helps dampen noise.
12. To install the rear coil spring retainers on the bottom end of the coil springs first insert the flanged nut into the provided wrench tool, as shown on the next page, and put the nut under the spring pad.

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Insert the bolt, with the lockwasher on top of the flat plate, into the rear lower spring retainer, holding the flanged nut in place using the provided wrench tool and begin tightening the bolt. Remove the tool when finished.



13. Install new rear sway bar links on the inside of the sway bar and the inside of the axle bracket. Use the factory bolt on the axle with the nut on the outside so excess threads will not interfere with the shock. Use the provided 12mm bolt and washer for the top side with the 12mm nut and washer on the inside to give the most possible room for tire clearance.



14. Install new rear bump stop spacer by placing the spacer on the axle pad lining up both holes with the upper pad on the spacer forward then install provided 5/16" X 1 1/4" bolts with 5/16" washers and 5/16" nuts. tighten with 1/2" wrenches.

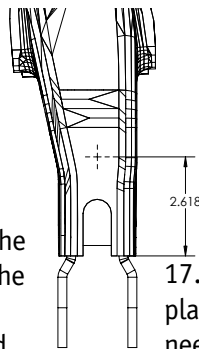


15. If shock adapters are included in your kit, install shock adapters and shocks.

**NOTE:** the adapters are different from left to right.



16. Install rear brake line extensions provided in the kit. Bolt the bracket to the factory brake line bracket so the lower brake line will be below the frame and tucked slightly under so it will clear the rear sway bar. Use the factory bolt to fasten the extension bracket to the frame. You will also need to bend the upper factory hard line up out of the way so it will clear the rear sway bar link upper bolt. Make the bend directly above the link to get the best clearance.



17. Install rear track bar drop bracket. Use the template in the instructions to mark and drill the 3/8" hole needed for proper installation.



Install your new track bar drop bracket using the sleeve provided to prevent crushing the bracket. Place your 14mm bolt and washer through the original track bar mounting hole, apply the 14mm washer and nut, then

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install the 3/8" bolt with washer from the outside of the frame in. Before tightening, put the track bar in its new location and fasten with factory hardware then tighten all three bolts.

**FRONT INSTALLATION:**

- 18. Remove front shocks and sway bar links.
- 19. Remove front springs. You will want to loosen all control arm bolts and track bar bolts but **do not remove them.**
- 20. Remove front factory bump stop (yellow).
- 21. Install factory bump stop into the TeraFlex bump stop extension.



- 22. Install front bump stop extension into the factory location.



- 23. Install front 2.5" coil springs.



- 24. Install front upper shock adapter by spinning it onto the factory shock then install the provided washer. Add the original rubber bushing with the big hole in it and use the other one on the upper side of the frame and install in the same order it was removed.
- 25. Install factory rear sway bar links in the front.

- 26. Reinstall tires and wheels, lower the vehicle onto its own weight, and tighten all control arm bolts and track bar bolts.

27. Loosen the adjuster sleeve on the drag link. Mark the position by making a line across the sleeve and the threads this line will indicate the original position. Looking up from the bottom rotate the adjuster sleeve toward the back of the vehicle 3/4 of a turn. This should get the steering wheel close to center.

**NOTE:** An alignment is recommended at the completion of the installation.



**Before**



*Rotate up and around  
3/4 of a turn*



**After**

**Helpful Hints**

Headlights: You may want to aim your headlights down after installing a TeraFlex Spring lift. The tool you need is a T15 Torx driver. This is done from the front of the Jeep and the adjuster screw is set between the headlamp and the bezel. Look for a clearance detent in the bezel. On a flat surface with a wall or garage door about 15-20 feet in front of the Jeep turn the head lights on and adjust the light pattern down as needed.



**Note on tire and wheel selection:**

The JK Wrangler uses a larger brake system than on the previous TJ Wrangler so the minimum wheel size is 16 inches. Aftermarket wheels should be selected that are at least 16 inches in diameter with a 5 on 5-inch lug bolt pattern and 4.5 inch backspacing. The factory wheels use a 6 inch backspacing, but when installing larger tires on the factory wheels some rubbing of the tire on the sway bar and control arms may occur.

TeraFlex offers both wheel offset adapters and wheel lug pattern adapters that are 1.250 inches thick. The offset adapters are for running factory wheels with aftermarket tires. The adapters allow use of a wheel with either a 5 on 4.5 lug pattern or 5 on 5.5 lug pattern on the JK Wrangler bolt pattern of 5 on 5 inches. Contact your local TeraFlex distributor for more information.

Tires from various manufacturers vary in actual dimension, but as a general guideline TeraFlex recommends a maximum tire diameter of 35 inches mounted on a 8 inch wide rim for use after installing the JK 2.5 inch spring lift kit. Other tire and wheel combinations may also work, but the installer takes responsibility for ensuring a proper selection of tire and wheel.

The 2007 JK Wrangler uses 1/2- inch by 20 (UNF) wheel studs.

**CAUTION:** *If you did not purchase the 2.5" spring kit that includes the TeraFlex shocks and rear spring guides (Part #1251000), or if you purchased the kit with the shock adapters and are not using the factory shocks, you may need to purchase 2 of the 1/2" rear spring guides and spacers, (Part #1954105), to keep the springs aligned with the spring buckets under full extension.*

*To determine if you need the rear spring guides, measure your shock from the top of the bar pin (or shock adapters if you are using the adapters) to the center of the eyelet when it is fully extended. If the fully extended shock length is longer than 25", you will need the TeraFlex rear spring guides (Part #1954105).*





# 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 3,000 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 3,000 miles. Wheel alignment, steering system, suspension and drive line systems must be inspected by a qualified professional mechanic at least every 3,000 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 3,000 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.