

# TERAFLEX

## PRODUCT INSTALLATION GUIDE

### JK Master Cylinder

Part # 4303450



#### **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.*

*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 retailer for assistance.*

Required Tools:  
13mm Deep well socket  
12mm wrench  
Rags  
Brake fluid DOT 3 32oz  
Brake cleaner

#### **TeraFlex, Inc.**

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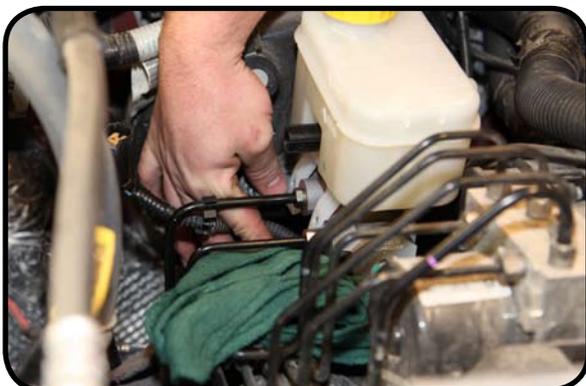
1. Lift the hood and place it against the windshield frame. Place rags between the hood and the windshield frame to protect the paint.



2. Remove the brake fluid level sensor connector from the reservoir by pulling back on the red clip then squeezing the end to remove the connector.



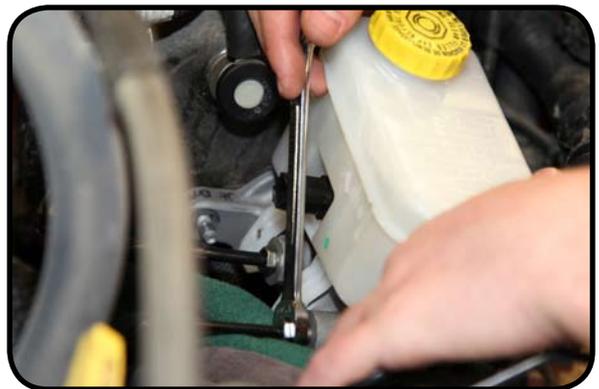
3. Place a stack of rags under the brake lines to collect the brake fluid drainage.



4. Remove the two mounting nuts that attach the master cylinder to the brake booster using a 13mm deep well socket.



5. Move the master cylinder towards the front of the vehicle roughly 1/2" to release the piston pressure. (If the booster is holding the master in with the vacuum pressure you can remove the check valve at the booster to release the suction from the master.) Remove the brake lines from the master using a 12mm wrench.



6. Remove the master cylinder from the vehicle. Make sure that the O-ring seal stays on the master and does not get into the booster.



7. Install the new master into the vehicle. Make sure that there is an O-ring seal on the master cylinder where it mounts to the booster. Install the brake lines to the new master.



8. After the brake lines are installed into the new master cylinder, install the mounting nuts that secure the master cylinder to the brake booster. Torque to 13 Ft-lbs.



9. Remove the reservoir cap and fill the reservoir completely with DOT 3 brake fluid.



10. Leave the cap off and loosen the brake lines at the master to let the brake fluid bleed through the master. Tighten the brake lines once the reservoir is at operating level. Remove the rags and clean everything with brake cleaner.



11. Reinstall the fluid level sensor connector and reservoir cap.



12. Check the brake pedal feel by pumping the pedal with the engine off. Then start the engine to make sure that the booster is working correctly.
13. Check for any leaks at the fittings. Re check fluid level after 300 miles.



## **PRODUCT INFORMATION & WARRANTY**

### **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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