

# TERAFLEX

## INSTALLATION GUIDE

# Installation Guide for the TJ Heavy Duty Gas Tank Skid - Fits all Models

**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 this product. 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.

**Part #004940071**  
fits 1997 - 2006 Wranglers  
and Unlimiteds



### Installation:

1. Release pressure in the fuel lines by removing the fuel pump relay, then starting the engine and idling until it stalls. Disconnect the battery cable and reinstall the fuel pump relay. Refer to owners manual for location of the fuel pump relay in the PDC.
2. In order to lower the fuel tank all fuel, vapor and electrical connectors must be disconnected. The exact location of all these lines varies from year to year, but basically you need to disconnect the high pressure and return fuel lines, the sending unit/pump electrical connector and the vapor and vent hoses going to the vapor recovery system. *More details are available in the factory service manual for your year of TJ.*
3. Remove the fuel cap bezel, then reinstall the fuel cap to keep dirt out of the tank. Cut the zip tie holding the axle vent hose to the filler hoses.
4. Use a jack to support the weight of the fuel tank. Balancing the tank on the jack as you lower it is much easier with a friend to help with this step.
5. Remove the 7 bolts/nuts holding the fuel tank to the frame. **Do not remove the tank strap nuts yet.** Very slowly and carefully lower the tank to the ground while you feed the hoses and vent lines between the body and the frame.
6. Remove the fuel tank and tank straps from the factory skid plate and transfer over to the new HD TJ skid plate. Gently tighten the straps just enough to keep the tank from sliding around on the new HD skid plate.
7. Raise the fuel tank with new skid plate back up into place again being careful to route all hoses and connectors between the frame and body until you can install the bolts/nuts that hold the tank skid to the frame.

**Note:** If you don't have a body lift, you will need to install one prior to installing the HD gas tank skid plate, or you will have to use the TeraFlex spacer kit P/N 004970400, sold separately. With a body lift, you can push the HD skid all the way up against the frame and enjoy the additional ground clearance.

8. Slide the fuel tank/skid as far back as possible to get clearance at the differential then tighten the fasteners to 141 inch pounds.
9. Reconnect all the fuel, vapor and electrical connections removed earlier and reinstall the fuel inlet bezel. Zip tie the axle vent hose to the fuel fill hoses.
10. Connect the battery, start the engine and idle the vehicle. Check for any leaks.

**Note:** A 1 inch body lift is required. If you do not want a body lift a separate spacer kit is required and is sold under **Part #004970400**.

Installation of this skid plate requires removal of the fuel tank. Be very careful to avoid damaging any hoses, fittings or electrical connectors



**TeraFlex, Inc.**  
5680 W Dannon Way  
West Jordan, UT 84081  
Phone/801.288.2585  
Fax/801.713.2313  
[www.teraflex.com](http://www.teraflex.com)



# 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.

## **COPYRIGHT**

©Copyright 2008. All rights reserved, TeraFlex Inc. Reproduction of this catalog and/or any of its contents without written permission is strictly prohibited.

TeraFlex® is a registered trademark of TeraFlex Inc. All trade names and logos including but not limited to TeraFlex, FlexArms, RockGuard, Monster, and LCG are protected by law and duplication of trade names and/or logos are strictly prohibited.

TeraFlex Inc. reserves the right to update, discontinue, redesign, modify finish, part number or component build parts if deemed necessary without written notice. TeraFlex Inc., and any associated dealers are not responsible for misprints or typographical errors that may have inadvertently been made within this instruction sheet.

Jeep® and the Jeep® grill are registered trademarks of Chrysler LLC, and have no affiliation with TeraFlex Inc.

**TeraFlex, Inc.** 5241 South Commerce Dr. Murray, Utah 84107  
Phone/801.288.2585 Fax/801.713.2313 [www.teraflex.biz](http://www.teraflex.biz)