



JK Limiting Straps

www.teraflex.com

Kit #4853100 Front and Back

Kit #4853155 Front Only

Kit #4854145 Rear Only



Important Notes:

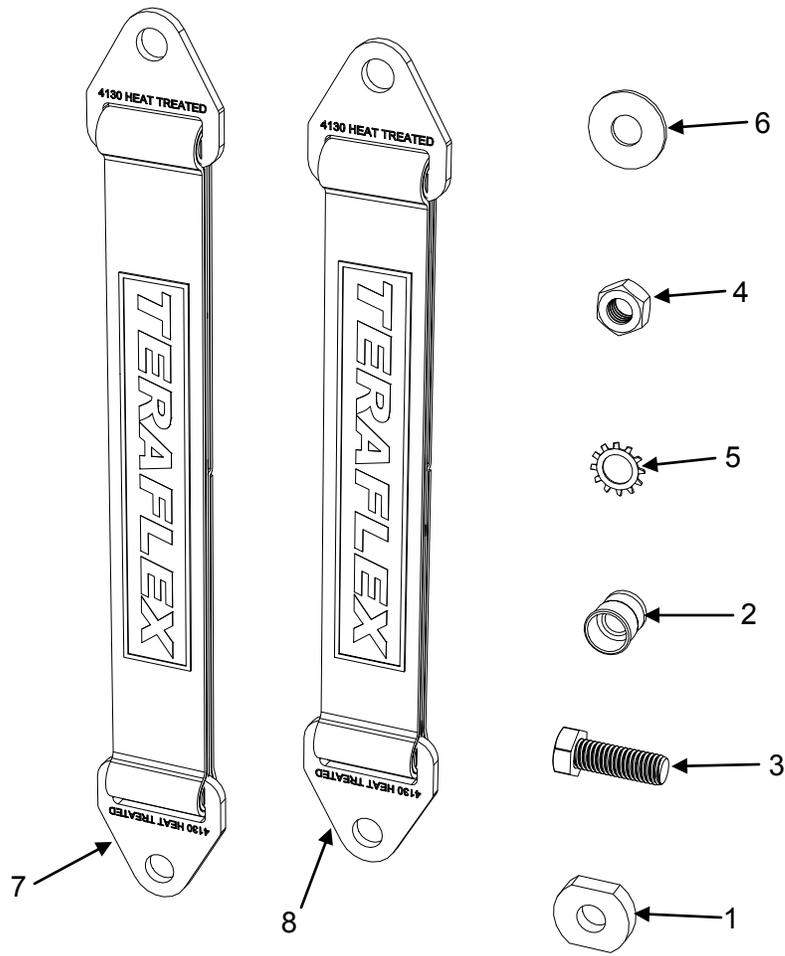
Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

Steps 2-11 are designed around the TeraFlex Prerunner lift kit coupled with the recommended Fox Racing Shocks (Part #1980200 –Front 26” extended –Rear 27.65” extended) All other applications see steps 12-22.

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 TeraFlex dealer for assistance.

Tools needed:

- This installation guide
- Basic mechanics tool set



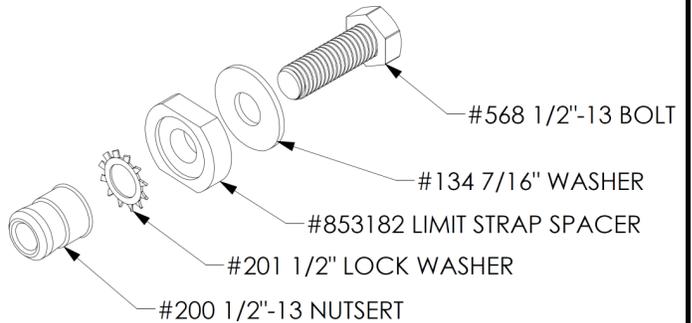
Parts List - Front JK Limit Straps Part #4853155			
Item Number	Part Number	Description	Quantity
1	853182	Limit Strap Spacer for Frame Nutserts	2
2	200	Nutsert 1/2"-13 Thread	2
3	568	Bolt 1/2"-13 x 1.5" Hex Head	4
4	214	Stover Locknut 1/2"-13	2
5	201	Washer 1/2" External Tooth	2
6	134	Washer 7/16" Flat	4
7	853155	JK Front Limit Strap 15-1/8" Long	2

Parts List - Rear Limit Straps Part #4854145			
Item Number	Part Number	Description	Quantity
1	853182	Limit Strap Spacer for Frame Nutserts	4
2	200	Nutsert 1/2"-13 Thread	4
3	568	Bolt 1/2"-13 x 1.5" Hex Head	8
4	214	Stover Locknut 1/2"-13	4
5	201	Washer 1/2" External Tooth	2
6	134	Washer 7/16" Flat	4
8	854145	JK Rear Limit Strap 13-1/2" Long	2

FRONT INSTALL (Prerunner)

Park the vehicle on a level surface. Raise and support the vehicle so the axles can droop completely. Remove the wheels and tires. See the factory service manual for safe support locations.

Assemble the nutsert and bolt as shown in preparation for installation of the nutsert into the frame. We recommend using anti-seize on the threads to prevent galling of the threads.

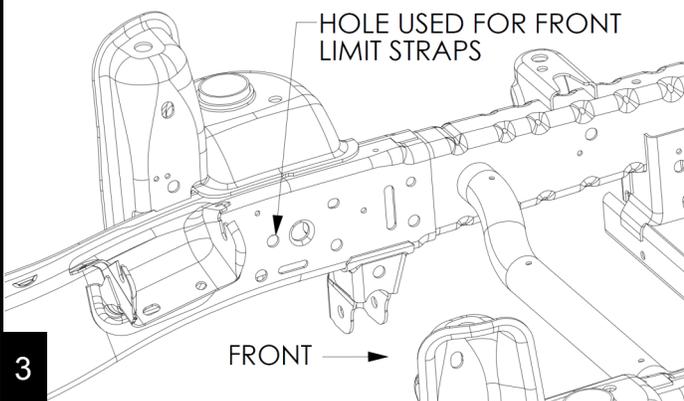


1

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The assembly will install into a factory hole in the frame between the steering gear and motor mount.

Use an 1-1/8" end wrench on the flats of the spacer and a 3/4" wrench on the bolt. Torque to 60 ft-lbs (81 Nm) to ensure the nutsert is fully seated.

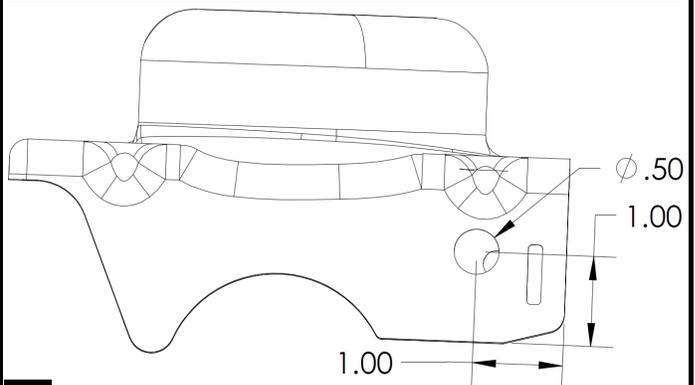
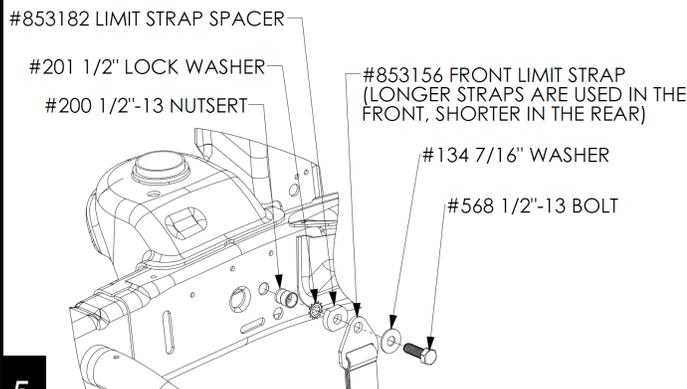


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Remove the bolt and reinstall using one of the longer limit straps. Loosely install the bolt, do not tighten. Repeat on opposite side.

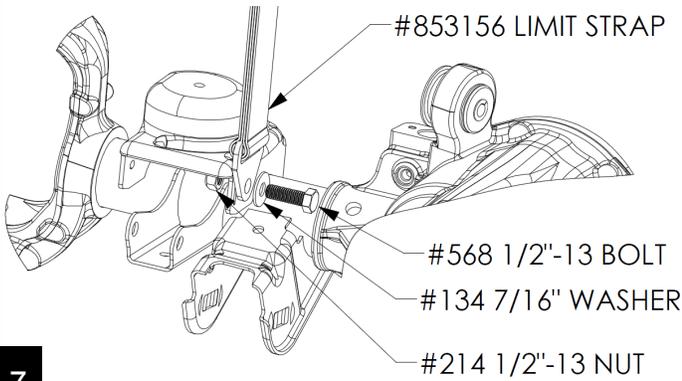
Drill a 1/2" hole in the inside of the spring perch in the location shown. We recommend drilling a 1/4" pilot hole first. TeraFlex HD housings have this hole pre-drilled in the bracket.



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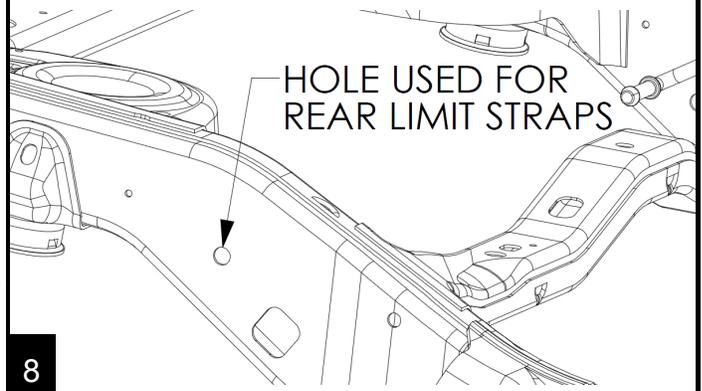
Using a 1/2" bolt, washer and nut, install the lower end of the limit strap to the spring perch. Lower and allow the axle to be supported by the straps and torque all front limit strap bolts to 60 ft-lbs (81 Nm)



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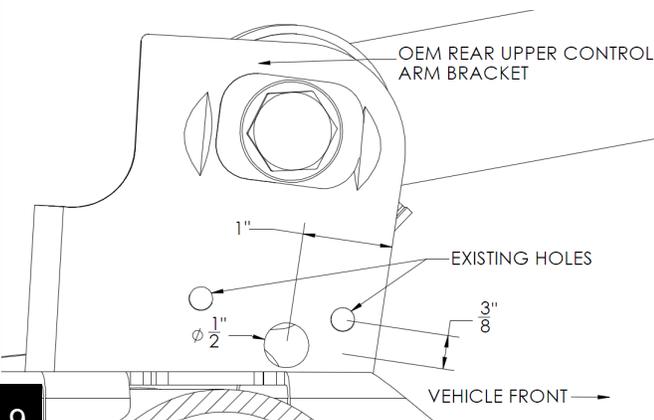
REAR INSTALL

Use the hole shown in the frame and install the nutsert using the same procedure as the front. See steps 2-4.



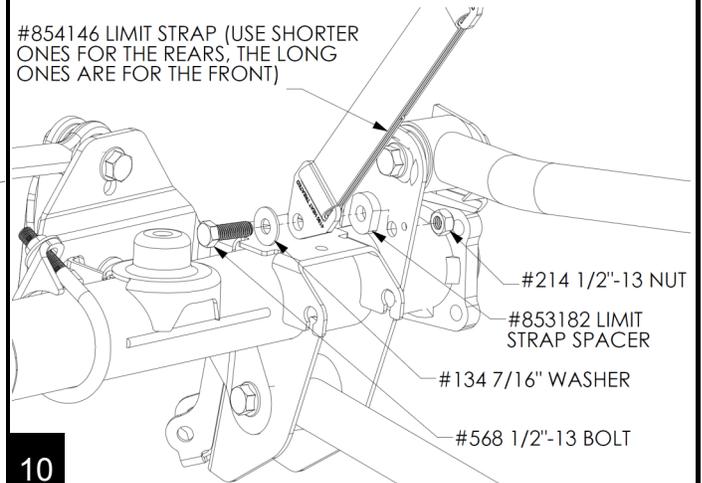
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For the axle side hole, drill a 1/2" hole in the inside of the upper control arm mount as shown.



9

Install the limit straps, but leave the bolts finger tight.



10

Lower the axle so it is supported by the straps. Then torque the bolts to 60 ft-lbs (81 Nm).



11

Custom Installation Important Notes

Quad-wrapped nylon limit straps typically stretch approximately 1" per foot. To protect from over extension, it is important to raise the axle at least 1.25" above full droop before determining placement of the limit strap.

12

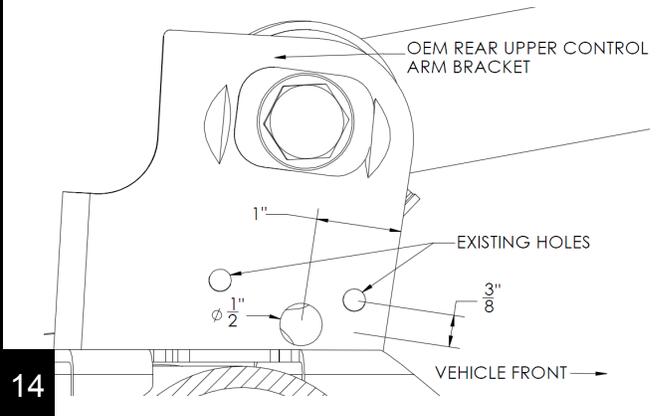
CUSTOM REAR INSTALL

With the shocks attached, lower the rear axle until it is completely supported by the shocks. Then raise the axle 1.25".



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On the rear, either drill a hole similar to step 9 or remove the control arm bolt and insert the bolt through the limit strap tab and reinstall the bolt. Install bolt finger tight.



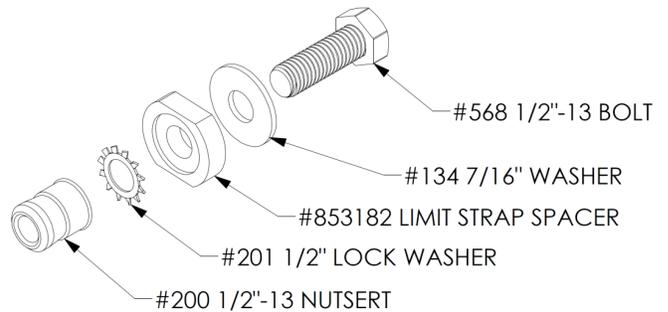
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On the frame side, pull the strap as tight as possible and choose a location on the outside of the frame that is clear of brake lines and obstructions. Mark for drilling. Some applications may be able to use the existing 3/4" hole in the frame.



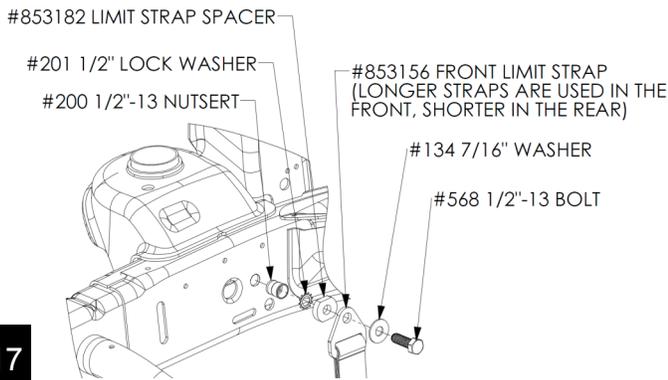
15

Drill a 3/4" hole, step drill bits work great. Install the nutsert according to the procedure in steps 2-4.



16

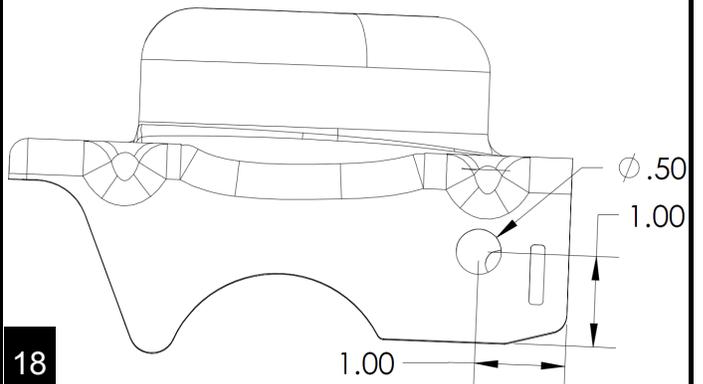
Remove the bolt and install the limit strap to the nutsert in the order shown. Droop the axle until it is supported by the straps and torque the bolts to 60 ft-lbs (81 Nm).



17

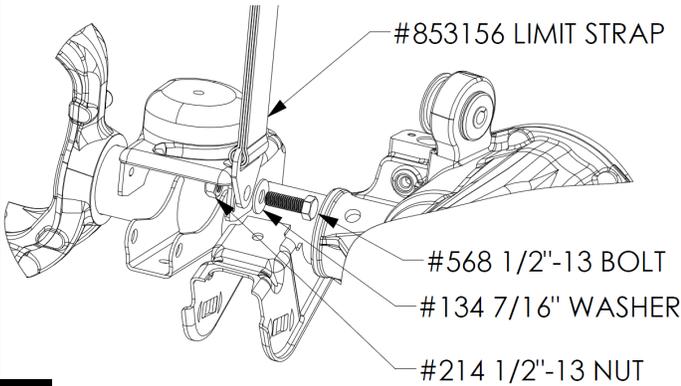
CUSTOM FRONT INSTALL

On the axle side in the front, drill a 1/2" hole in the spring perch as shown.



18

Bolt the limit strap to the spring perch with a washer but do not tighten.



19

Lower the axle so it is completely supported by the shocks, then raise the axle 1.25\".



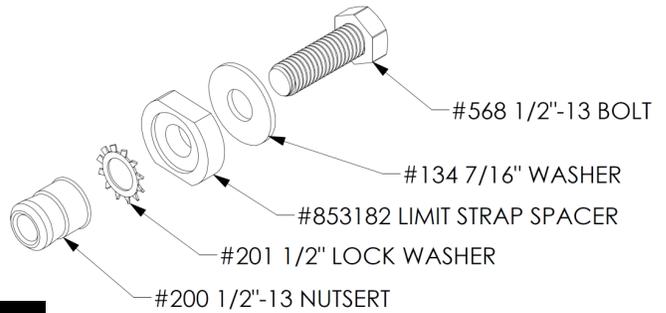
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Pull the strap as tight as possible. On the inside of the frame, find a location just in front of the motor that is accessible for drilling. You may need to remove the track bar and/or the lower radiator hose for better access.



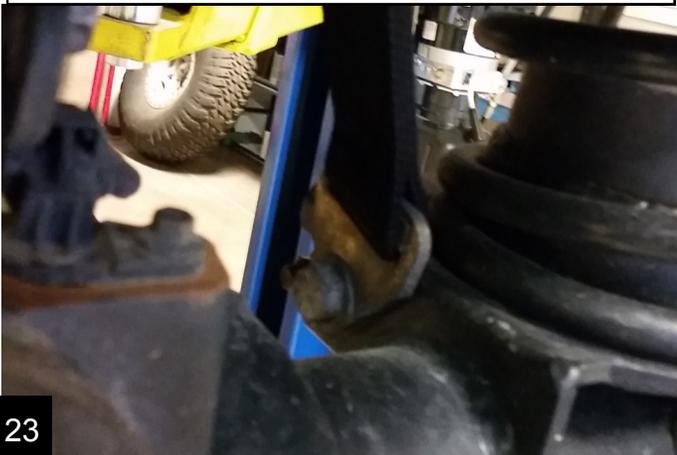
21

Once a final location is established, make a mark and drill a 3/4\" hole, a step bit works great. Mirror that hole to the opposite frame rail. Install the nutserts according to steps 2-4. Install the limit strap finger tight.



22

Be sure all limit strap bolts are finger tight and lower the axle until it is supported by the straps. Torque all supplied bolts to 60 ft-lbs (81 Nm) and the upper control arm bolt to 125 ft-lbs (169 Nm).



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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:

TeraFlex Inc. 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 the TeraFlex two (2) year warranty to be free of defects in material and workmanship for two years from date purchased.

TeraFlex 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. TeraFlex Inc. 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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