



## REAR ADD-A-LEAFS (AAL)

### INTRODUCTION

Installation requires a professional mechanic. Prior to beginning, inspect the vehicles steering, driveline, and brake systems, paying close attention to the suspension link arms and bushings, anti-sway bars and bushings, tie rod ends, pitman arm, ball joints and wheel bearings. Also check the steering sector-to-frame and all suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition; repair or replace all worn parts.

**Read instructions several times before starting. Be sure you have all needed parts and know where they install. Read each step completely as you go.**

### NOTES:

- Prior to operating a torch, protect any heat-sensitive components located in the immediate area by covering them with a water saturated cloth. Most undercoatings are flammable, but can be extinguished using a water-filled spray bottle. Have this and an ABC rated fire extinguisher at hand.
- Prior to inserting leafs, be sure all leaf mating surfaces are free of grit, grease, undercoating, etc.
- A factory service manual for this particular year and model vehicle must be on hand. The manual will contain fastener torque specs and any assembly techniques or special tool requirements that are unique to this vehicle.
- Shock absorber length, depending on the particular vehicle, may not be adequate. Whatever the case, we recommend the installation of a premium shock for optimum performance.
- The spring pads (where the leafs or blocks seat on the axle) are prone to collapse or warp, especially towards their ends. The blocks (or springs) require a perfectly flat mating surface or excessive spring axle wrap-up will result. If the pads are not flat, replat or replace them.
- Overload AALs are designed to replace the stock spring pack's bottom leafs. The stock bottom leaf can be retained (positioned under the AAL) if the extra lift is desired. Extra lift gained will be the thickness of the stock bottom leaf.
- Prior to disassembly, inspect stock U-bolts for corrosion and adequate length. Rear U-bolts will probably be too short if degree shims are used or if the stock overload leaf is retained when overload type AALs are used.
- A foot-pound torque reading is given in parenthesis ( ) after each appropriate fastener.
- Do not fabricate any components to gain additional suspension height.
- Prior to attaching components, be sure all mating surfaces are free of grit, grease, undercoating, etc.
- Use the check-off box "☐" found at each step to help you keep your place. Two "☐☐" denotes that one check-off box is for the driver side and one is for the passenger side. Unless otherwise noted, always start with the driver side.

## INTRODUCTION

Superlift offers two types of add-a-leafs, full length and overload type. The installation process is basically the same for either type; it is their positioning in the spring pack that differs. An AAL is always placed beneath the leaf that is just longer than it so that all spring pack leafs remain progressively longer from bottom to top.

All full length and some overload types require spring pack disassembly. Some springs have fairly thick (3/16" to 1/4") riveted-on steel "straps" that hold the leaf plates together. Generally, the straps must be spread for spring pack disassembly, then re-formed to allow for the AALs' extra thickness. These straps re-form easily when heated and can be reused. Depending on fuel tank location, for safety, it may be required to remove springs from vehicle.

## INSTALLATION PROCEDURE

### 1) PREPARE VEHICLE...

- Put vehicle in neutral, raise vehicle with a suitable jack and secure jack stands beneath the frame rails just in front of the springs' front hangers.
- Put vehicle in Park, or low gear for manual transmissions, and chock the front to prevent accidental movement.
- Remove tires and position floor jacks to support rear axle.

### 2) SPRING PACK DISASSEMBLY...

- Remove spring-to-axle U-bolts and move axle several inches away from springs.
- If the straps or bend clips that hold the spring pack together must be disturbed, do these first then remove the spring center bolt. Have C-clamps in place on either side of each strap, clamp, or center bolt before the piece is spread / removed.

**CAUTION:** Take care when releasing the C-clamps since the springs are under load and will "spring" apart when released.

- Inspect the spring pads as described in the NOTES section and repair / replace as needed.

### 3) SPRING PACK ASSEMBLY...

- On each side, insert the AAL in the proper pyramid order.
- Recompress the pack with the C-clamp, not the center bolt, to avoid stripping the bolt / nut threads. After tightening, trim excess bolt.
- If applicable, re-form the straps or install new bend clips. If heat is used on the straps, allow them to cool naturally and thoroughly before removing the C-clamps.

### 4) REATTACHING THE AXLE...

- Using the floor jack(s), mate the springs to their pads, being sure that the center bolt heads seat properly. Evenly torque the U-bolts using a "X" tightening sequence.

## SUPERLIFT U-BOLT TORQUE GUIDE

**NOTE: Torque specifications apply to Superlift U-bolts only**

DESCRIPTION	PLATED (lb-ft)	PLAIN FINISH (lb-ft)
1/2" dia., up to 13" long	57	92
9/16" dia., up to 13 1/2" long	82	131
9/16 dia., 13 1/2" and longer	106	185
5/8" dia., up to 14 1/2" long	112	181
5/8" dia., 14 1/2" and longer	145	256

- If the complete spring packs were removed from the vehicle, snug-up, but do not fully tighten the stock shackle and stationary spring eye bolts. These bolts are not torqued until Step 7 when the suspension is supporting vehicle weight.

### 6) CLEARANCE CHECK...

- With the vehicle still on jack stands, and the suspension "hanging" at full extension travel, cycle steering lock-to-lock and check all components for proper operation and clearances. Pay special attention to the clearance between the tires / wheels and brake hoses, wiring, etc.
- Lower vehicle to the floor.

### 7) FINAL CLEARANCE and TORQUE CHECK...

- With vehicle on floor, cycle steering lock-to-lock and inspect the tires / wheels, and the steering, suspension, and brake systems for proper operation, tightness, and adequate clearance.

### 8) SUPERLIFT WARNING DECAL...

- Install the WARNING TO DRIVER decal on the inside of the windshield, or on the dash, within driver's view. Refer to the "NOTICE TO DEALER AND VEHICLE OWNER" section below.

## Limited Lifetime Warranty / Warnings

Your Superlift® product is covered by the Limited Warranty explained below that gives you specific legal rights. This limited warranty is the only warranty Superlift® makes in connection with your product purchase. Superlift® neither assumes nor authorizes any retailer or other person or entity to assume for it any other obligation or liability in connection with this product or limited warranty.

**What is covered?** Subject to the terms below, Superlift® will repair or replace its products found defective in materials or workmanship for so long as the original purchaser owns the vehicle on which the product was originally installed. Your warrantor is LKI Enterprises, Inc. d/b/a Superlift® Suspension Systems ("Superlift®").

**What is not covered?** Your Superlift® Limited Warranty does not cover products, parts or vehicles Superlift® determines to have been damaged by or subjected to:

- Alteration, modification or failure to maintain.
- Normal wear and tear (bushings, tie-rod ends, etc.). Scratches or defects in product finishes (powdercoating, plating, etc.),
- Damage to or resulting from vehicle's electronic stability system, related components or other vehicle systems.
- Racing or other vehicle competitions or contests. Accidents, impact by rocks, trees, obstacles or other aspects of the environment.
- Theft, vandalism or other intentional damage.

**Remedy Limited to Repair / Replacement.** The exclusive remedy provided hereunder shall, upon Superlift's inspection and at Superlift's option, be either repair or replacement of product or parts covered under this Limited Warranty. Customers requesting warranty consideration should contact Superlift® by phone (1-800-551-4955) to obtain a Returned Goods Authorization number. All removal, shipping and installation costs are customer's responsibility.

If a replacement part is needed before the Superlift® part in question can be returned, you must first purchase the replacement part. Then, if the part in question is deemed warrantable, you will be credited / refunded.

**Other Limitations - Exclusion of Damages - Your Rights Under State Law**

- Neither Superlift® nor your independent Superlift® dealer are responsible for any time loss, rental costs, or for any incidental, consequential or other damages you may have.
- This Limited Warranty gives you specific rights. You may also have other rights that vary from state to state. For example, while all implied warranties are disclaimed herein, any implied warranty required by law is limited to the terms of our Limited Lifetime Warranty as described above. Some states do not allow limitations of how long an implied warranty lasts and / or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

**Important Product Use and Safety Information / Warnings**

As a general rule, the taller a vehicle is, the easier it will roll over. Offset, as much as possible, what is lost in rollover resistance by increasing tire track width. In other words, go "wide" as you go "tall". Many sportsmen remove their mud tires after hunting season and install ones more appropriate for street driving; always use as wide a tire and wheel combination as feasible to enhance vehicle stability. We strongly recommend, because of rollover possibility, that the vehicle be equipped with a functional roll bar and cage system. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Generally, braking performance and capabilities are decreased when significantly larger / heavier tires and wheels are used. Take this into consideration while driving. Also, changing axle gear ratios or using tires that are taller or shorter than factory height will cause an erroneous speedometer reading. On vehicles equipped with an electronic speedometer, the speed signal impacts other important functions as well. Speedometer recalibration for both mechanical and electronic types is highly recommended.

Do not add, alter, or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the Superlift product purchased. Mixing component brands is not recommended.

**SUPERLIFT SUSPENSION SYSTEMS**

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