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# Superlift® 4" lift system for 2003-2009 Dodge Ram 3/4-ton and 1-ton 4WD INSTALLATION INSTRUCTIONS

### 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, stabilizer bars and bushings, tie rod ends, pitman arm, ball joints and wheel bearings. 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:**

- On 2006 and newer models equipped with a gas engine, exhaust modifications may be required for front driveshaft clearance. If necessary, the vehicle can be driven a short distance to have the exhaust work performed once the installation is complete.
- Front end realignment is necessary.
- An arrow on diagrams indicates which direction is toward the front of the vehicle.
- A foot-pound torque reading is given in parenthesis ( ) after each appropriate fastener.
- Do not add or fabricate any components to gain additional suspension height.
- Prior to drilling or cutting, check behind the surface being worked on for any wires, lines, or hoses that could be damaged.
- After drilling, file smooth any burrs and sharp edges.
- Paint or undercoat all exposed metal surfaces.
- Prior to attaching components, be sure all mating surfaces are free of grit, grease, excessive undercoating, etc.
- A factory service manual should be on hand for reference.
- 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.

### Wheel and Tire Recommendations

**NOTE:** Stock tires and / or wheels can be used.

Tire diameter: 33" to 35"

**Tire Width:** No greater than 12.5" **Wheel Diameter:** No less than 17"

Wheel Width: 8"

Wheel Back Spacing: 4" to 5". As Back Spacing dimension decreases, track width and stability

increases.

**PARTS LIST** ... The part number is stamped into each part or printed on an adhesive label. Identify each part and place the appropriate mounting hardware with it.

PART NO.	DESCRIPTION (Qty if more than one)	ATTACHING HDWE. HDWE. BAG
01-244 or 245	front coil spring, driver side	
02-244 or 245	front coil spring, passenger side	<b>;</b>
55-10-4680	(2) lower link arm	(4) bushing half77-4640 (2) 1-1/8" OD x 2-1/2" sleeve
55-09-4680	(2) upper link arm	(4) bushing half77-4640 (2) 1" OD x 2-1/4" sleeve
01-4007 or 4011	pitman arm	(1) cotter pin77-46500
55-05-4640	track bar bracket	(2) 9/16" x 3-1/4" bolt
55-03-4670	stabilizer bar drop bracket, pa	. (2) 3/8" x 1" bolt
55-04-4670	stabilizer bar drop bracket, dr	(2) 3/8" x 1" bolt

PART NO	DESCRIPTION(Qty if more than one)	
01-306	(2) compression traveldampener, front	( 2) 10mm Nyloc nut77-4650D
55-25-4640	(2) compression travel dampene	er bracket, front
55-24-4640	. (2) compression traveldampener nut plate, front	(4) 3/8" x 1-1/4" bolt77-4650D (4) 3/8" lockwasher
55-11-4640	. (2) compression traveldampener bracket, rear	(4) 3/8" x 1-1/4" bolt77-4650D (4) 3/8" USS washer (4) 3/8" Nyloc nut
55-21-4660	parking brake cable extension bracket, rear	(1) 1/4" x 1" bolt
55-03-4660	parking brake cable drop bracket	(2) 3/8" x 1-1/4" bolt77-4670 (2) 3/8" SAE flat washer (2) 3/8" Nyloc nut (2) 5/16" x 1" self-tapping bolt
	(2) shock absorber, front	(2) shock boot (2) hardware pack and cable tie
	(2) shock absorber, rear	(2) shock boot (2) hardware pack and cable tie (4) 3/4" SAE washer
(Note: Shock boots, if desired, purchased separately)		
Superlift decal sheet	in Installation Instructions packet	
alcohol cleaning pad		in Installation Instructions packet

## FRONT PROCEDURE

**NOTE:** Save all factory components and hardware for reuse, unless noted.

- 1) PREPARE VEHICLE... Raise front of vehicle with a jack and secure a jack stand beneath each frame rail, behind the lower link arms. Ease the frame down onto the stands, place transmission in low gear or "park", and chock rear tires. Position the jack so that it supports, but does not raise, the front axle. Remove front tires.
- 2)  $\square\square$  STABILIZER BAR LINKS... Disconnect the stabilizer bar links from the bar body.
- 3) \(\subseteq\) SHOCK ABSORBERS... Remove the lower shock bolt, followed by the bolts attaching the shock tower-to-coil tower. Remove the shocks.
- **4) TRACK BAR...** Disconnect the track bar from its upper (frame) mounting point, and rest it on the axle. It may be helpful to loosen the lower track bar bolt to relax the lower bushing.

<ul> <li>5) DRAG LINK Remove the cotter pin and castellated nut from the drag link where it attaches to the pitman arm. Using the appropriate tool, separate the drag link from the pitman arm.</li> <li>6) DD BRAKE HOSES Remove the brackets securing the brake hoses to the lower link arm bracket at the axle.</li> </ul>
7) □□ COIL SPRINGS Ease down the jack supporting the front axle enough to facilitate removing the springs.
8) D COMPRESSION TRAVEL DAMPENERS Remove.
9) PITMAN ARM  Note the orientation of the pitman arm in relation to the steering sector, then remove the nut securing the pitman arm to the steering sector shaft. Using the appropriate puller tool, detach the pitman arm from the sector shaft.
☐ Align the indexing splines of the Superlift <sup>®</sup> pitman arm with the steering sector shaft then secure using the factory hardware. Tighten (225).
<b>10) MARKING ECCENTRIC CAM BOLT LOCATION</b> The lower trailing links (one on each side) are secured to the axle via eccentric cam bolts. Rotating these bolts changes front axle alignment. It is important that the eccentrics be installed in exactly the same position as they were removed to serve as a baseline for final alignment. Scribe a line on each eccentric, and the flanges they contact, for reference during reassembly.
11) UPPER AND LOWER LINK ARMS Perform this step one side at a time.
Remove the bolts securing the factory upper and lower link arms to the frame and axle.
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<ul> <li>□□ Remove the bolts securing the factory upper and lower link arms to the frame and axle.</li> <li>NOTE: On late production 2007 and newer models only with diesel engines. The exhaust system must be "dropped" in order to remove / reinstall the upper link arm-to-frame bolt on the passenger side. Follow these instructions:</li> <li>□□ Disconnect the exhaust system at both manifolds (23).</li> <li>□ Disconnect the rubber exhaust mounts at the muffler.</li> </ul>
<ul> <li>■ Remove the bolts securing the factory upper and lower link arms to the frame and axle.</li> <li>NOTE: On late production 2007 and newer models only with diesel engines. The exhaust system must be "dropped" in order to remove / reinstall the upper link arm-to-frame bolt on the passenger side. Follow these instructions:</li> <li>■ Disconnect the exhaust system at both manifolds (23).</li> <li>■ Disconnect the rubber exhaust mounts at the muffler.</li> <li>■ Support the transmission then remove the transmission crossmember (50).</li> </ul>
<ul> <li>□□ Remove the bolts securing the factory upper and lower link arms to the frame and axle.</li> <li>NOTE: On late production 2007 and newer models only with diesel engines. The exhaust system must be "dropped" in order to remove / reinstall the upper link arm-to-frame bolt on the passenger side. Follow these instructions:</li> <li>□□ Disconnect the exhaust system at both manifolds (23).</li> <li>□ Disconnect the rubber exhaust mounts at the muffler.</li> <li>□ Support the transmission then remove the transmission crossmember (50).</li> <li>□ Lower the exhaust system down enough to gain access to the upper link arm bolt.</li> <li>Reattach exhaust system and crossmember after the Superlift® links are installed. Torque specs.</li> </ul>

Install the Superlift<sup>®</sup> link arms using the factory hardware. When the eccentric cam bolts are reinstalled in the lower link arms (at axle end), be sure to align the marks made previously. Snug-up, but do not tighten bolts at this time.

**NOTE:** Be sure the Superlift<sup>®</sup> link arms are positioned properly in their respective lower and

upper arm positions. The part numbers are stamped

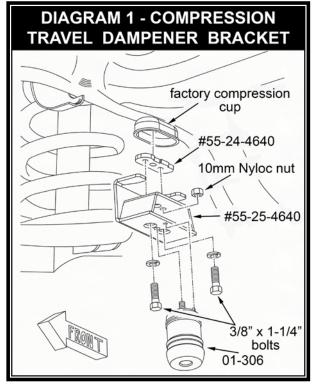
in each arm for reference.

# **12) COMPRESSION TRAVEL DAMPENERS...** Perform this step one side at a time.

□□ [DIAGRAM 1] Insert one #55-24-4640 nut plate in the factory compression stop cup, located at the bottom of the frame rail.

Position the compression dampener bracket (#55-25-4640) then secure it to the nut plate using the supplied 3/8" x 1-1/4" bolts and lockwashers. Tighten (23).

□□ Attach a #01-306 compression travel dampener to the "25" bracket using the supplied 10mm Nyloc nut. Make sure that the alignment pin is positioned in the locating hole on the "25" bracket. Tighten (23).



## 13) COIL SPRINGS...

**NOTE:** On 2006 and newer models equipped with a gasoline engine, watch carefully for adequate driveshaft clearance as the axle is lowered to install the coil springs. In some cases it may be necessary to remove the front driveshaft temporarily. It may also be necessary to dimple

or otherwise modify the exhaust for adequate front driveshaft clearance once the installation is complete.

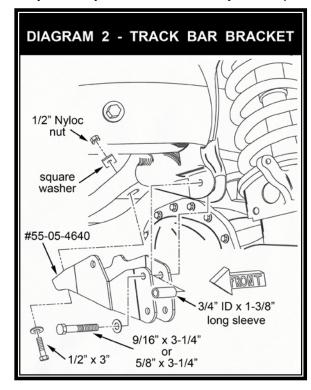
The coil springs are side-specific and must be installed correctly; refer to Parts List. Lower the front axle enough to facilitate installation of coil springs. Position the springs in the coil towers then raise the front axle enough to seat and hold them in place.

# 14) SHOCK ABSORBERS...

□□ Install shock bushings, hardware and boots.

Position the shocks inside the coil springs with the stem end of the shock facing upward. Attach the bottom end of the shock using factory hardware. The bottom bolts are not tightened until step 26.

Position a washer and bushing on the shock stem then reattach the shock tower to the coil tower using factory hardware (55). Install the remaining



bushing and washer on the shock stem and tighten until the bushings swell slightly.

# 15) TRACK BAR BRACKET... [DIAGRAMS 2, 3]

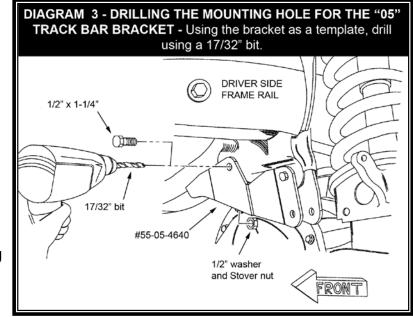
**IMPORTANT -** Up to late-2007, Dodge used a 9/16" bolt to attach the track bar eye-to-frame. In late-2007 Dodge began using a larger 5/8" bolt. The two affected holes in Superlift's track bar bracket are sized 9/16" (See DIAGRAM 2). On late-model vehicles, use a 21/32" drill to enlarge these holes to accept the larger 5/8" bolts. DO NOT install 9/16" bolts on a late-model vehicle.

- Refer to Diagram 3. Mate the Superlift<sup>®</sup> track bar bracket to the factory upper track bar mount as shown. The front lip of the Superlift<sup>®</sup> bracket should be positioned in front of the factory track bar mount and crossmember, while the rear lip of the Superlift<sup>®</sup> bracket installs in front of the rear lip of the factory track bar mount. In other words, the Superlift<sup>®</sup> bracket steps forward (toward the front bumper) when viewed from the side of the vehicle.
- ☐ Insert the supplied 3/4" ID x 1-3/8" long sleeve inside the factory mount and align it with the mounting hole. Install the supplied 9/16" or 5/8" x 3-1/4" bolt, washer (at bolt head and nut) and Stover nut through the "05" bracket, factory mount, and sleeve, then secure using the supplied 9/16" or 5/8" Stover nut. Snug-up, but do not fully tighten, at this time.
- ☐ Install the 1/2" x 3" bolt and washer through the "05" bracket and the existing slotted hole in the

frame crossmember, as shown in Diagram 2. The bolt should be installed from the bottom. Install the supplied square washer and 1/2" Stover nut.

- ☐ Tighten the 9/16" (135) or 5/8" bolt (195), then the 1/2" bolt (57).
- □ [DIAGRAM 3] Using the "05" track bar bracket as a template, drill a hole in the crossmember using a 17/32" bit, as shown.
- ☐ Install the supplied 1/2" x 1-1/4" bolt through the drilled hole and secure using a 1/2" washer and Stover nut (57).

**NOTE:** The track bar is attached to the Superlift<sup>®</sup> bracket in a later step.



- **16) DD BRAKE HOSE BRACKETS...** Reattach the factory brake hose brackets to their factory location on the axle link arm brackets using the factory hardware and tighten (7).
- 17) □□ STABILIZER BAR DROP BRACKETS....Note the orientaion of the stabilizer bar body and remove it from the frame. Attach the drop brackets (driver side #55-04-4670 and passenger side #55-03-4670) to the frame using the factory hardware (30). Reattach the stabilizer bar body to the new brackets using the supplied 3/8" x 1" bolts, washers, and Flange nuts (30). Reattch the stabilizer bar links to the bar using the factory hardward, tighten until the bushings swell slightly.

**18) DRAG LINK...** Reattach drag link-to-pitman arm using the factory nut and the supplied cotter pin. Tighten (65).

# REAR PROCEDURE

<ul><li>19) REAR BLOCK KIT</li><li>□ Use a floor jack positioned under the rear axle to raise the vehicle.</li></ul>
☐ Place jack stands under the frame rails, a few inches in front of the rear springs' forward hanger. Ease the jack down until the frame is resting on the stands, but keep a slight load on the jack. If the front has been placed back on the floor, chock the front tires to prevent the possibility of vehicle movement.
□□ Remove the tires, U-bolts, and shocks.
Locate the parking brake cable tensioner assembly on the driver side frame rail just forward of the rear spring hanger. Note that the single cable coming from the pedal inside the cab splits into two cables at the tensioner assembly; one cable goes to the driver side brake and the other to the passenger side brake. Make a note of where these two cables attach to the tensioner assembly.
□ Loosen the adjuster nut enough to unclip the passenger side cable from the cable connector. It will be necessary to bend the small metal tab on the connector with a screwdriver in order to disconnect the cable. Once the passenger side cable is free, unclip the driver side cable from the tensioner assembly.
☐ Using a pair of pliers to hold in the prongs of its retaining clip, remove the passenger side cable from the tensioner assembly.
☐ Remove the parking brake cable hanger that is mounted in the driver side rear fender well. Save the hanger and hardware for re-use.
☐ Lower the axle by carefully easing down the jack. Do not overextend the brake lines and axle vent hoses.
<b>NOTE:</b> The spring perches are prone to collapse or warp where the leaf springs or blocks seat on the axle, especially towards the ends. Without a perfectly flat mounting surface, the block may fail and "roll" out off of the perches. Check to make sure the perches are flat (use a straight-edge) before proceeding.
Make sure the top of the spring perches and the bottom of the springs are clean and free of debris. Position the Superlift <sup>®</sup> blocks in between the leaf springs and the spring perches. Notice that the top of the blocks are flat but have an offset center pin. Position the block so that the center pin is offset to the front of the vehicle which will cause the axle to be forward from the stock position.
□□ Install the supplied U-bolts and factory U-bolt plates, then torque the bolts in an "X" tightening sequence (106). If vehicle is equipped with a 10.5" ring gear use the U-bolt that is 3-5/8" wide; vehicles equipped with 11.5" ring gear use the U-bolt that is 4-1/8" wide.

### 20) SHOCK ABSORBERS...

□□ Install shock bushings, sleeves (0.75" O.D., 0.563" I.D., 1.68" L) and boots.

□□ Install shocks using the factory hardware. On the lower mounts, position 3/4" SAE washers between the mount and the shock bushing, so that the bushing is sandwiched by the washers and shock mount. Shock bolts are tightened in a later step.

# 21) COMPRESSION TRAVEL DAMPENER BRACKETS... [DIAGRAM 4]

□□ Remove the factory dampeners.

Attach #55-11-4640 bracket-to-frame using the supplied 3/8" x 1" bolts and Nyloc nuts. The bracket should be positioned so that it steps foreward (toward the front), as shown. Tighten (23).

Attach the factory dampeners to the Superlift® brackets using the factory hardware then tighten (30).

# 22) PARKING BRAKE CABLE BRACKET...

**NOTE:** Avoid damaging any of the cable retaining clips and connectors, and keep all hardware for reuse.

Pull both the driver and passenger side cables out of their respective holes in the frame and then reroute them so that they pass beneath the spring near the rear spring eye.

□ [DIAGRAM 5] Position the #55-03-4660 mounting bracket as shown and loosely secure it to the lower hole in the frame originally used to retain one of the parking brake cables using supplied 3/8" x 1-1/4" bolt, flat washer, and Nyloc nut. Snug, but do not tighten at this time.

☐ Using the "03" bracket as a template, drill a 13/32" hole as shown in Diagram 5. Install the supplied 3/8" x 1-1/4" bolt in the hole just drilled and secure using the supplied flat washer and Nyloc nut. Tighten both 3/8" bolts (23).

☐ As noted in Diagram 5, attach the passenger side parking brake cable to the upper hole and the

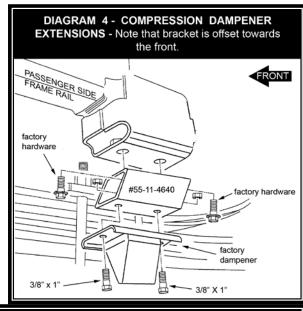
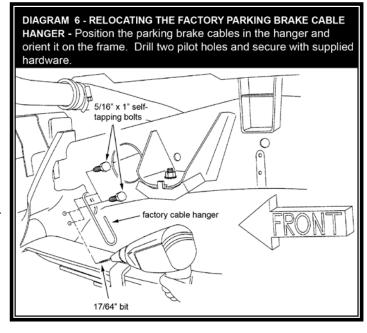


DIAGRAM 5 - MOUNTING THE #55-03-4660 PARKING BRAKE CABLE **RELOCATION BRACKET - Position the "03" bracket on the frame,** then mark and drill where indicated using the bracket as a template. View is from the driver side. 3/8" washer 3/8" x 1-1/4" and nut (uses existing frame hole) pass, side cable mounts here driver side cable mounts here #55-03-4660 3/8" washe and nut 'RON' 3/8" x 1-1/4



driver side parking brake cable in the lower hole in the "03" bracket. Be sure the prongs of the factory cable retaining clips are spread enough to secure each cable.

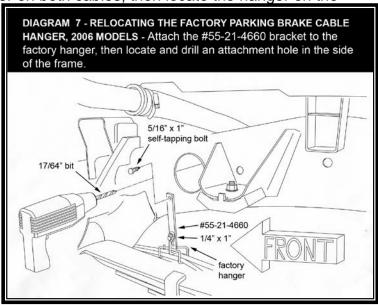
## ☐ [DIAGRAM 6] **2003-2005 MODELS**:

Position the factory parking brake cable hanger on both cables, then locate the hanger on the

frame as shown. Drill two pilot holes in the frame using a 17/64" bit, then secure the hanger to the frame using the supplied 5/16" x 1" self-tapping bolts (13). Do not overtighten the 5/16" bolts.

## ☐ [DIAGRAM 7] 2006 AND NEWER MODELS:

Position the factory Parking brake hanger on both cables, then attach the supplied #55-21-4660 relocation bracket to the hanger using the supplied 1/4" x 1" bolt, washer, and Nyloc nut. Locate the bracket on the frame as shown and drill a 17/64" mounting hole. Secure the bracket to the frame with the supplied 5/16" x 1" self-tapping bolt (13), then tighten the 1/4" bolt (76 in-lb.).



☐ Reattach the parking brake cables to the tensioner assembly in the reverse order of how they were removed and adjust the tension of the cables per the procedure found in the factory service manual.

### FINAL PROCEDURES

23) TIRES / WHEELS... [DIAGRAM 5] Install all four tires / wheels. Tighten lug nuts (145) in the sequence shown.

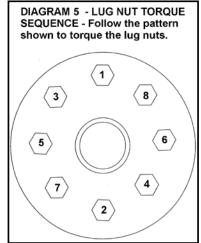
**WARNING:** When the tires / wheels are installed, always check for and remove any corrosion, dirt, or foreign material on the wheel mounting surface, or anything that contacts the wheel mounting surface (hub, rotor, etc.). Installing wheels without the proper metalto-metal contact at the wheel mounting surfaces can cause the lug nuts to loosen and the wheel to come off while the vehicle is in motion.

**WARNING:** Retighten lug nuts at 500 miles after any wheel change, or anytime the lug nuts are loosened. Failure to do so could cause wheels to come off while vehicle is in motion.

24) INITIAL CLEARANCE CHECK, REAR... With the vehicle still on jack stands, and the suspension "hanging" at full extension travel, check all components for proper operation and clearances.

Pay special attention to clearance between the tires / wheels and brake hoses, driveshaft, etc. Remove jack stands and lower vehicle to the floor.

25) INITIAL CLEARANCE CHECK, FRONT... 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. Remove jack stands and lower vehicle to the floor.

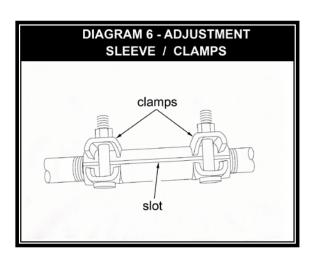
- **26) HARDWARE TIGHTENING SEQUENCE...** The suspension is now supporting vehicle weight.
- □ Align the track bar with its upper attachment hole in the "05" bracket. Secure the bar with either the supplied 9/16" or the 5/8" x 3-1/4" bolt. Tighten 9/16" bolt (135); tighten 5/8" bolt (195).
- ☐ Tighten the track-bar-to-axle bolt if it was loosened (150).
- □□ Axle-to-frame link arms / upper, both ends (120).
- □□ Axle-to-frame link arms / lower, both ends (160).

**NOTE:** Position the lower link-to-axle cam bolts in exactly the same position they were removed (reference step 10), so the caster is close enough to specifications to drive the vehicle safely and slowly to an alignment facility.

- □□ Front shocks, lower mounts (89).
- □□ Rear shocks, upper and lower mounts (100).
- **27)** □ **FINAL CLEARANCE 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.
- **28)** 

  HEADLIGHTS... Readjust headlights to proper setting.
- 29) ALIGNMENT AND CENTERING THE STEERING WHEEL... Realign vehicle to factory specifications. A precise alignment, including the centering of the steering wheel, is required.

**IMPORTANT -** [DIAGRAM 6] Relay this information to the alignment shop: In order to achieve proper adjustment sleeve clamping force, clamp / bolt assemblies (found on the drag link and tie rod assemblies) must be positioned as shown. The open side of each clamp must align with the slot in the threaded adjustment sleeve. Improper positioning and bolt torque will promote linkage deflection, which may contribute to tire shimmy. Tighten clamp bolts (45).



**30)** SUPERLIFT® WARNING DECAL... Install the WARNING TO DRIVER decal on the inside of the windshield, or on the dash, within driver's view. Review the "Important Product Use and Safety Information / Warnings" section below.

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<sup>®</sup> 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.

If a replacement part is needed before the Superlift<sup>®</sup> 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<sup>®</sup> product purchased. Mixing component brands is not recommended.