

**SUPERLIFT SUSPENSION SYSTEMS**

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**“DROPPED” PITMAN ARM
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, 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:

- This part is intended to decrease drag link angle, in relation to the tie rod.
- A special tool is required to remove the pitman arm from the sector shaft. This tool can be rented from most auto-parts stores.
- 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.
- 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.

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 PAINT DAUB I.D. APPLICATION **LIFT MIN. / MAX. (inches)

1105.....blue..... 1976-1986 CJ 4 / 5

1108white..... 1980-1991 Ford 4 / 9

MANUAL STEERING ONLY

1103.....green 1976-1986 Jeep CJ-5/6/7..... 4 / 5

1104.....red *1976-1979 F-100/150 4 / 9
1978-1979 Bronco
Most Jeep fullsize trucks

1109.....yellow 1980-98 F-150/250/350, Bronco .. 4 / 6
1983-97 Ranger / Bronco II..... 4 / 6

POWER STEERING ONLY

* Installing arm on 1976 and 1977 models requires converting drag link and tie rod assembly to the 1978-79 type linkage. This linkage is available from Superlift, Ford and various auto parts stores.

** If used with taller lifts, stud bind may occur, which can result in drag link end failure. Shorter lifts can cause the drag link to make contact with the tie rod.

INSTALLATION PROCEDURE

1) PRE-INSTALLATION INSPECTION...

- With tires on the ground the full vehicle weight on the suspension, move the steering wheel left to right, and check the following for looseness, slack and wear: steering sector-to-frame attaching points, steering sector main (output) shaft, drag link and tie rod ends, trac-bar mounting points and bushings, radius arm and C-bushings.
- With the tires off of the ground, check for improper wheel bearing preload and ball joint wear.

NOTE: IT IS IMPORTANT that all steering related parts are in proper working condition. If any problems exist, repair before proceeding.

2) PREPARE VEHICLE...

- Put the transmission in neutral. Position a floor jack under front axle and raise vehicle. Place jack stands under the frame rails, a few inches behind the radius arm brackets (on Jeeps, place behind spring hangers). Ease the jack down until frame is resting on the stands. Keep a slight load on the jack. Put vehicle in gear or park, set emergency brake, and chock rear wheels to prevent any possibility of movement.

3) REMOVE FACTORY PITMAN ARM...

- Remove the cotter pin and nut from the drag link end where it attaches to the pitman arm. Dislodge link with a tie rod end remover tool or a pickle-fork.

NOTE: Replace the link if any stud looseness is detected or if you can twist the stud in its socket with your fingers.

- Remove the pitman arm from the steering sector output shaft using a puller tool. Inspect the shaft splines for excessive wear, repair if needed.

4) DROPPED PITMAN ARM INSTALLATION...

- The arm and shaft splines should be clean and free of grit. Install new arm, lock washer and nut. Torque (170-230) using the value specified in the factory service manual.
- Attach the cleaned drag link stud to the pitman arm. Torque castle nut to factory specifications and install cotter pin.
- If the drag link end stud is tightened in a position other than the straight ahead position or allowed to twist in the adjustment collar, a vehicle drift to the left or right could result.

5) DRAG LINK INSPECTION...

- Check for over extension (stud bind) as follows: To achieve the greatest possible linkage angle, have the truck frame resting on jack stands with the front axle hanging at full extension travel. Check drag link ends, with the steering wheel turned full lock in both directions, to be sure the studs still have some pivot capability.

6) TURNING RADIUS STOP ADJUSTMENTS...

- Reposition floor jack under front axle. Put a slight load on jack; the truck is to remain on jack stands.
- Locate the stop bolts. The stop bolts (found only on some models) are generally found at approximately the center of the front axle knuckles and can be either on the front or back side of the knuckles.
- Perform this step one side at a time. Loosen the jam nut and screw the stop bolt all the way in. Have someone turn the steering wheel all the way in that direction. Either the end of the sectors turning capability or tire-to-radius arm / leaf spring contact will limit turning. Adjust the stop bolt out until it limits turning at least 1/2" before contact or the end of sector radius does. Use the same procedure to adjust the other side.

NOTE: The amount of adjustment may differ slightly. Longer grade 8 bolts may be needed.

IMPORTANT: If a tire makes contact with a radius arm or leaf spring, tire damage may occur. This can also increase the possibility of vehicle roll-over. If the steering sector is at full lock and receives a blow (rut, curb, etc.), steering linkage and/or steering sector main shaft failure may occur.

8) FINAL PROCEDURES...

- Raise truck, remove jack stands, lower truck to ground. Check for adequate linkage clearances while turning steering wheel lock-to-lock. Re-torque everything that has been touched and double check for cotter pins.

- Have toe-in adjustment set to factory specs.

IMPORTANT PRODUCT USE INFORMATION

As a general rule, the taller a vehicle is, the easier it will roll over. Offset, as much as possible, what is lost in roll over resistance by increasing tire track width. In other words, go "wide" as you go "tall". Many sportsmen remove their mud tires after winter / hunting season and install ones more appropriate for street driving; always use as wide a tire and wheel combination as possible to enhance vehicle stability.

We strongly recommend, because of roll over 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 performances and capabilities are decreased when significantly larger / heavier tires and wheels are used. 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 Superlift product purchased. Mixing component brands is not recommended.

Most states have some type of law limiting vehicle height. The amount of lift allowed, and how the lift may be achieved, varies greatly. Several states offer exemptions for farm or commercially registered vehicles. It is the owner's responsibility to check state and local laws to ensure that their vehicle will be in compliance.

Superlift makes no claims regarding lifting devices and excludes any and all implied claims. Superlift 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.

IMPORTANT MAINTENANCE INFORMATION

It is the ultimate buyer's responsibility to have all bolts / nuts checked for tightness after the first 100 miles and then every 1000 miles. The steering, suspension and driveline systems, along with wheel alignment should be inspected by a qualified professional mechanic at least every 3000 miles.

NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with a Superlift lifting device must have the enclosed "Warning to Driver" decal installed on the inside of the windshield or on the vehicle's dash, within driver's view. The "Warning to Driver" decal is to act as a constant safety reminder for whoever may be operating the vehicle. The WARRANTY IS VOID unless this decal is in place. **INSTALLING DEALER...** It is your responsibility to install warning decal and forward these installation instructions to the vehicle owner for review of warnings, product use and maintenance information. Replacement warning decals are available free upon request. These instructions are to be kept with the vehicle registration papers and owners manual for the service life of the vehicle.

SUPERLIFT LIMITED LIFETIME WARRANTY

Suspension products bearing the Superlift (LKI Ent.) name are warranted for as long as the original purchaser owns the vehicle that the LKI product was originally installed on. This warranty is non-transferable. Warranty covers only the product, no labor, time loss, or freight incurred. Any product that has been abused, altered, incorrectly installed, or used in competition is not covered. Product finish, spring bushings, Polyurethane products, and normal wear is not covered. The LKI product is subject to replacement or repair. No other warranties are expressed or implied. An authorized Superlift dealer must inspect the part in question and confirm that the "Warning to Driver" decal is properly displayed. A copy of the sales invoice is required for warranty consideration.