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www.highlifter.com

Polaris Sportsman ACE Lift Kit Installation Instructions

Read before Installation

This product is designed for use on ATVs and/or RUVs to increase ground clearance and fender clearance. Purchasers should be aware that use of this product may increase the frequency of required maintenance, part wear, and will raise the center of gravity on your ATV and/or RUV, increasing risk of roll-over, injury and death on all types of terrain. It is your responsibility to always inform other operators and passengers of this vehicle about the added risks.

High Lifter Products, products are designed to best fit users ATV/RUV under stock conditions. Adding, modifying, or fabricating any OEM or aftermarket parts will void warranty. High Lifter Products, products could interfere with other aftermarket accessories. If the user has aftermarket products on machine, contact High Lifter Products to verify that they will work together. Adding aftermarket suspension components and/or more aggressive tires can cause breakage of other OEM driveline components such as differentials, axles or drive shafts.

We recommend that wider tires and/or wheel spacers be used to achieve a wider stance and to improve stability of the ATV and/or RUV. Riders should be advised that the handling characteristics of a taller ATV and/or RUV are different and require extra care when riding, particularly on side hills or off-camber situations. If you further raise the center of gravity by adding taller tires, heavy loads to racks or seats, or by any other means, the ATV and/or RUV must be operated with even more care, at slower speeds and on relatively flat ground. All turns should be done at a slow speed, even on level ground.

Operation of an ATV and/or RUV with or without modified suspension components, while or shortly after consuming alcohol or drugs, subjects the rider to the risk of serious bodily harm or possible death. This risk is compounded if the rider does not wear an approved helmet and other safety gear. High Lifter urges that all approved safety gear be worn when riding an ATV and/or RUV as a driver or passenger.

By purchasing and installing High Lifter Products, products, user agrees that should damages occur, High Lifter Products will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. High Lifter Products will not be held responsible for any direct, indirect, incidental, special, or consequential damages that result from any product purchased from High Lifter Products. The total liability of seller to user for all damages, losses, and causes of action, shall not exceed the total purchase price paid for the product that gives rise to the claim.

Dealers and other Installers

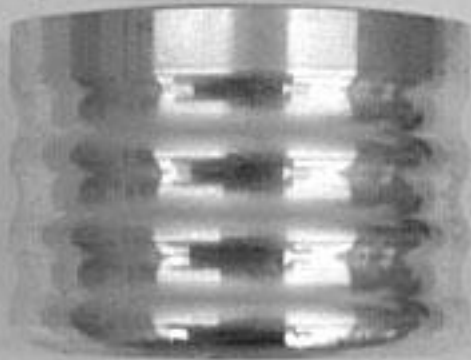
You are responsible for informing your customer and end user of the information contained above and the increased potential hazards of operating an ATV and/or RUV equipped with modified suspension components. If you install any suspension modifying components, it is your responsibility to also install the warning label prominently in view of the driver and in prominent view of the driver and passenger on RUVs and multi-passenger ATVs. They should also be instructed to notify anyone operating the vehicle, as well as any passengers, that said vehicle is modified.

As discussed above, it is critically important that they be instructed in the need for slower speed operation, regardless of terrain, after this lift kit is installed.

Parts Diagram



**Front Strut Spacer
(2ea)**



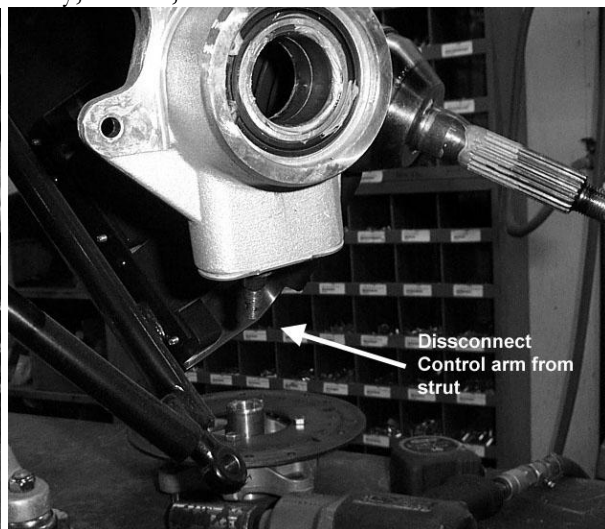
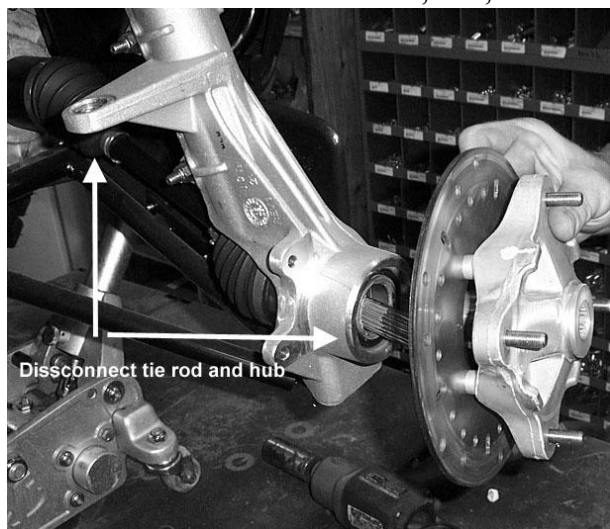
**Front Spring Spacer
(2ea)**



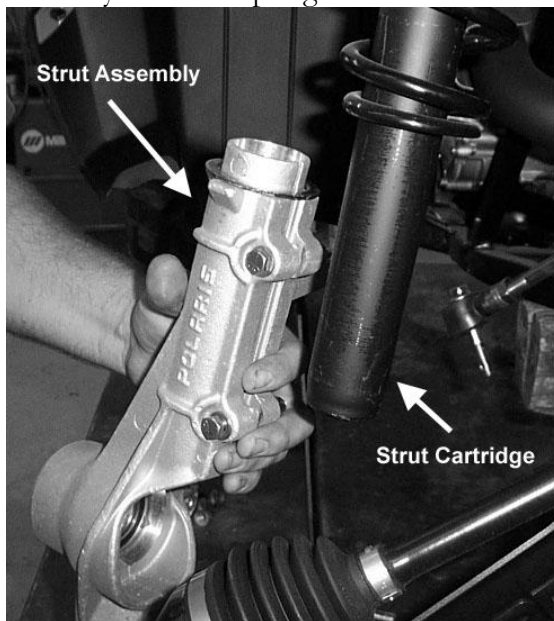
Rear Spring Spacer (2ea)

Front Lift

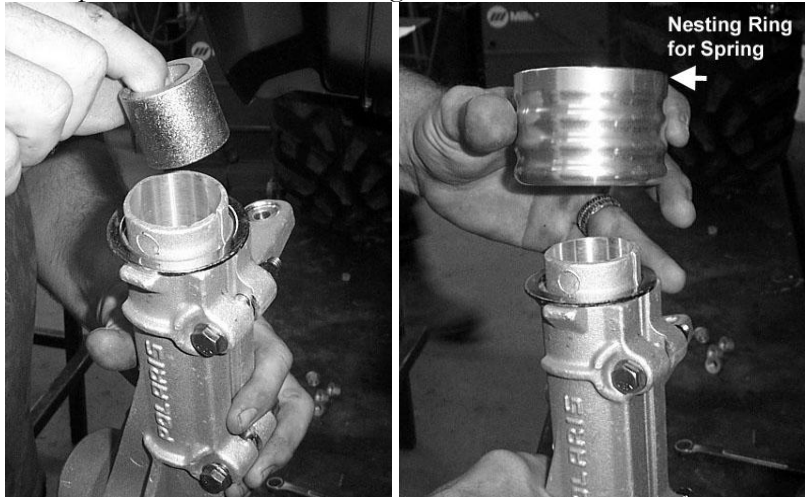
- 1) Place jack under center of the UTV front end and lift until front wheels clear the ground. Be careful to support properly so that it is secure, but so that the A-arms and shocks can drop to full extension.
- 2) Remove front wheels.
- 3) Disconnect the front control arm, hub, brake assembly, tie rod, and axle. Slide the hub off the axle.



- 4) There are two ways you can install the lift. You can take the strut and springs completely off. If you do this, then the front plastic will need to come off. We are going to show you a “short cut” method.
- 5) Leaving the top of the strut connected to the frame loosen the two bolts on the back of the strut. This will allow the strut to slide off the strut cartridge and away from the spring.



- 6) Drop the small front spacer into the bottom of the strut socket and place the large front spring spacer on the top of the strut over the large OE washer.



- 7) Slide the strut cartridge back into the socket.

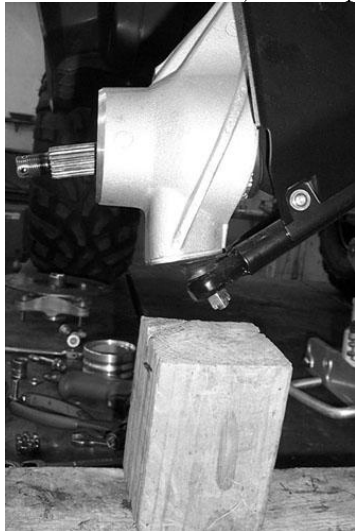


- 8) **This is the part about the short cut we talked about earlier!**

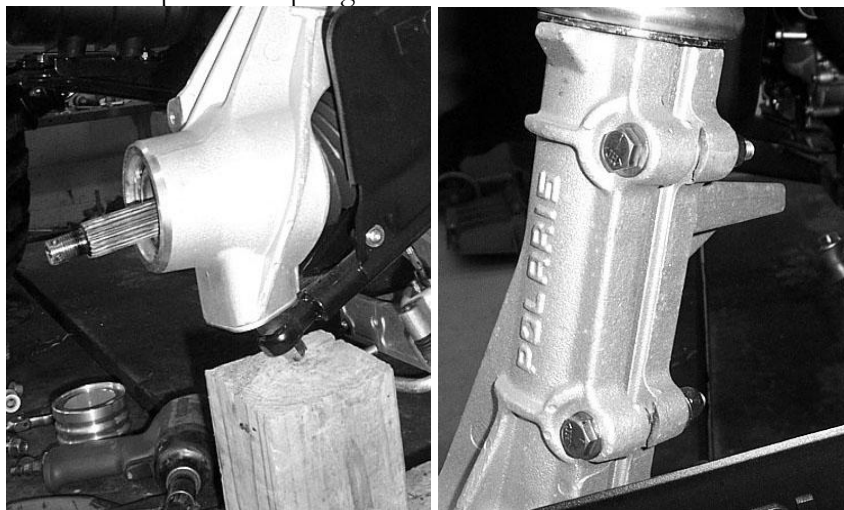
- 9) Once you have assembled the lift brackets in place and have loosely attached the strut to the strut cartridge. Next insert the axle into the strut and attach the control arm to the bottom of the strut assembly.



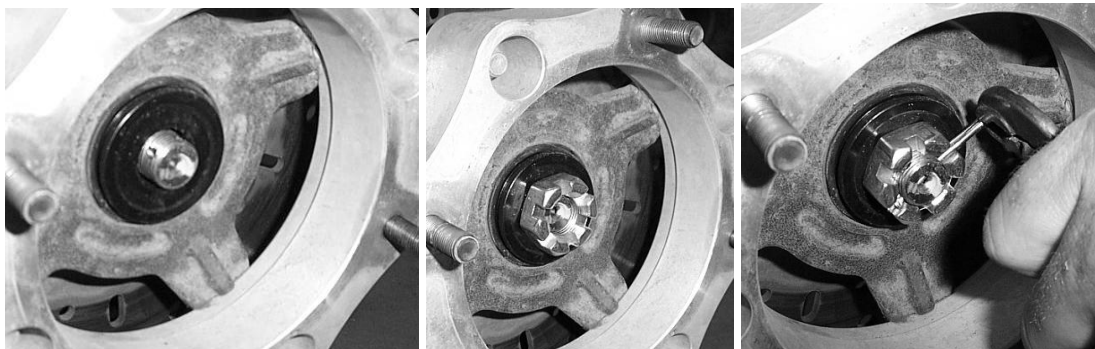
- 10) With the ATV still jacked up, place a block of wood or another solid object under the control arm.



- 11) Lower the jack, this will place weight on the end of the strut that is connected to the control arm. This will compress the spring and strut. Fasten the two bolts on the back of the strut.



- 12) Reconnect the tie rod, hub, and brake assembly. **Make sure to secure it with cotter pin.**



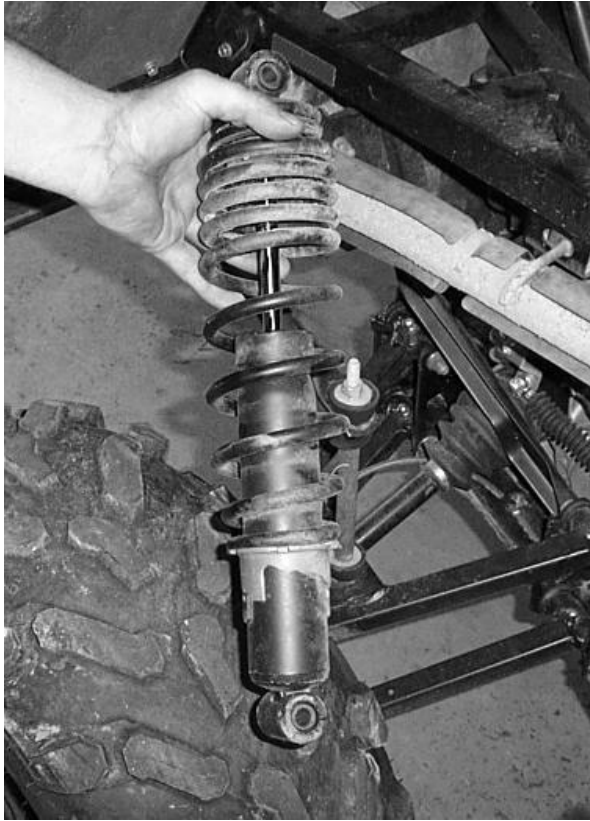
- 13) Repeat this process on the other side.

- 14) Check the boots on the axles for clearance in the strut housing. If you are running after market axles you may need to trim the strut housing for clearance.
- 15) Install the wheels, torque wheel lug nuts to manufacturer's specifications, lower and remove jack. Check for clearance problems or misalignment. (Re-torque lug nuts after first ride.)



Rear Lift Installation

- 1) Place ATV transmission in park. Place jack under center of ATV rear end and lift until rear wheels clear the ground. Be careful to support ATV properly so that it is securely supported so that A-arms and shocks can droop to full extension.
- 2) Disconnect the rear shocks from the frame and arms.



- 3) YOU WILL NEED A SPRING COMPRESSOR FOR THE NEXT STEPS!
- 4) Using a spring compressor, compress the spring and remove the retaining clip at the top of the spring.



- 5) Next remove the spring and place the rear spring spacer onto the shock.



- 6) Place the spring back on the shock and compress it to reinstall the retaining clip.



- 7) Reinstall the shock back on the Ranger using the stock hardware.
8) Repeat steps for opposite side.
9) Lower the ATV.

Thank You
For Choosing
HighLifter
PRODUCTS



High Lifter Lifetime Warranty

From the beginning, High Lifter has engineered and manufactured some of the toughest, most durable products on the market. That's why this product comes with a Lifetime Warranty. It's our promise that High Lifter will never let you down.

- The **Lifetime Warranty** covers products sold to the original purchaser only and is not transferable. The term of the warranty is for the lifetime of the vehicle in question.
- Normal wear and tear items and finishes, such as, but not limited to: Heim joints, tie rod ends, ball joints, bearings, seals, bushings, bushing sleeves, zinc plating , powder coating, or chipping and discoloration of any finish is not covered.
- High Lifter will ship the replacement product after the returned product has been inspected by High Lifter staff.
- The warranty shall not include claims for damages, installation time or labor charges, economic losses, inconvenience, transportation, towing, down time, direct or indirect or consequential damages or delay resulting from any defect.
- The warranty does not apply to products that have been improperly applied or improperly installed.

Making a warranty claim

1. All claims must be accompanied by the part and the original sales receipt or other acceptable proof of purchase from the original owner.
2. All warranties must be accompanied with a Return Merchandise Authorization (RMA) number. (Contact High Lifter at 318-524-2270 or 800-699-0947 for an RMA number)
3. When shipping the damaged product:
 - a. Write the RMA number on the outside of the box.
 - b. Also include the RMA number, proof of purchase and any notes inside the box.
 - c. Please keep your tracking number and shipment information.
4. The customer is responsible for shipping the product to High Lifter--return shipping within the lower 48 states will be paid by High Lifter products. With all warranty claims, only standard shipping services apply.
5. High Lifter will process your order within 24 business hours of receiving the returned item.
6. **Ship to:** High Lifter Products, 780 Professional Drive North, Shreveport, Louisiana 71105