



# K30-PL1009-0 Polaris Expedition 5 seat Spring Kit



## INTRODUCTION

# PLEASE RETAIN THIS DOCUMENT FOR FUTURE REFERENCE

IF your ZBROZ® product has a damaged or missing part, please contact customer service directly and a new replacement part will be sent to you immediately.

For warranty issues, please return to the place of installation and contact ZBROZ®.

Business hours are Monday through Friday 8AM-5PM MST.

PHONE: (435) 753-7774

EMAIL: [customerservice@zbrozracing.com](mailto:customerservice@zbrozracing.com)

WEBSITE: [www.zbrozracing.com](http://www.zbrozracing.com)

## LIMITED LIFETIME WARRANTY

ZBROZ® will warranty to the original purchaser any failed ZBROZ® suspension product in the event of failure due to construction or material failure of the product. You will be required to contact ZBROZ® customer service with descriptions and photos that resulted in failure.

ZBROZ® builds suspension products to meet and exceed your expectations in quality, performance and durability. All ZBROZ® suspension products are rigorously tested during development and prototype parts are pushed to the limit by professional industry athletes, backcountry athletes and race teams. ZBROZ® Limited Lifetime Warranty excludes the following wear parts as these parts are considered defective when worn: Ball Joints, Bushings, Bump Stops, Tie Rod Ends, Heim Joints, Shock Absorbers Product purchased directly from ZBROZ® has a 90 day return policy on uninstalled products from the date of purchase (may be subject to restocking fee). Uninstalled product returns must be in the original ZBROZ® packaging. Please call (435) 753-7774 to get an RMA# for any return. Customer is responsible for shipping costs back to Zbroz Racing. Returns without RMA# will be refused. Contact ZBROZ® directly about any potentially defective parts prior to removal from vehicle.

ZBROZ® is NOT responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, ZBROZ® reserves the right to change, modify or cancel this warranty without prior notice.

**FOLLOW INSTRUCTIONS TO ENSURE PROPER INSTALLATION**

**READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION. INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED. ZBROZ® IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.**

 **TOOLS:**

- Floor Jack (1)
- 18mm Socket (1)
- 18mm End Wrench (1)
- 3/32 Allen Wrench (1)
- Tape Measure (1)

 **PARTS:**

- Front Tender Springs (2)  
230-350-0800
- Front Main Springs (2)  
230-1300-450
- Rear Tender Springs (2)  
230-350-0800
- Rear Main Springs (2)  
230-1500-550
- Reservoir Decals (4)
- Rear Crossover Rings (2)
- Front Spring Dividers (2)

## Step 1 — Safety Warning



- **MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.** You should never operate your vehicle under the influence of alcohol or drugs. All raised vehicles have increased risk including blind spots; damage, injury and/or death can occur if these instructions are not followed.
- Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control or vehicle rollover during abrupt maneuvers.
- Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers. You should never operate your vehicle under the influence of alcohol or drugs.
- Driver and passengers must **ALWAYS** wear your seat belts, avoid quick sharp turns and other sudden maneuvers. ZBROZ® does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

- Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.
- It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lifting of their vehicle before the purchase and installation of any ZBROZ® products.
- It is the responsibility of the driver to check their surrounding area for obstructions, people, and animals before moving the vehicle.
- All raised vehicles have increased blind spots; damage, injury and/or death can occur if these instructions are not followed.

## Step 2 — Installation Warning



- All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks.
- Use caution during all disassembly and assembly steps to insure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

- Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.
- ZBROZ® recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components.
- Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.
- Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.
- Larger tire and wheel combinations may increase leverage on suspension, steering, and related components.
- Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

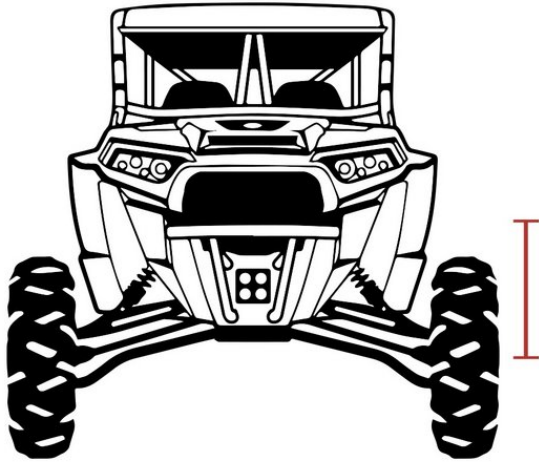
### Step 3 — Installation Warning Cont.



**WARNING**

- This spring kit can be installed with shocks on your "VEHICLE" by using a floor jack or lift. Select a flat install location. If using floor jack, always make sure to block tires - work safely! If removing shocks for installation. Back OEM Preload rings on all shocks before removing. Use a solid mounted vice for installation.
- FOLLOW THESE STEPS FIRST
- 1. Measure current ride height at front center frame point and rear center frame point.
- 2. Write down these measurements for before and after installation notes.
- 3. If removing shocks, label each shock to eliminate installation problems with the piggyback reservoirs positioning/clocking when reinstalling.
- 4. Clean shocks! Remove all dirt and mud.

## Step 4 — Ride Height Warning



- Due to payload options and initial ride height variances, the amount of preload is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

## Step 5 — Front shock removal



- If using a floor jack, raise the front of the machine and remove the front wheels and tires.
- Remove upper and lower shock mount bolt using a 18mm. Remove shocks from machine.



## Step 6



- **IMAGE 1** Once the shock is removed from the car, remove lower spring retainer and springs with a coil spring compressor (can be rented from parts store).
- **IMAGE 2** With the springs off the shock is the best time to install your new shock reservoir decals. Remove the original decals and clean the shock reservoir for the best adhesion results.
- **IMAGE 3** Once you get the spring removed, go ahead and adjust preload collar to 1" from top of shock body. Now place springs onto shock. The short tender spring on top with the new provided spring divider long end facing up then main spring and spring retainer.

## Step 7



- Now that the spring kit is assembled onto shock you can now reinstall shock into vehicle.
- Repeat steps on opposite side.

## Step 8 — Rear shock removal



- **IMAGE 1** Remove 1 side of the rear sway bar bolt then lift rear of vehicle and remove wheels and tires.
- Remove upper and lower shock bolts using a 18mm end wrench and ratchet.
- **IMAGE 2** To allow room to remove passenger shock from rear you will need to remove 18mm lower A-arm bolt from hub assembly. Swing arm down and remove shock.
- Using spring compressor again you will need to remove lower spring retainer, divider and springs from shock.
- With the springs off the shock is the best time to install your new shock reservoir decals. Remove the original decals and clean the shock reservoir for the best adhesion results.

## Step 9 — Rear spring setup



- You will need to install provided 2 piece crossover rings onto rear shocks. Leave the pinch bolts loose enough to adjust up the threads of shock. **IMAGE 1**
- The preload adjustment collar can be pre set 1 1/4" from the top of the shock body. The crossover ring can be roughly 2" down from preload nut. Do not tighten crossover ring. It will be fine tuned later. **IMAGE 2**
- Place tender spring onto shock with the more open coils down, then factory spring divider with the long end down, then main spring and spring retainer **IMAGE 3**

## Step 10 — Final Results



- Install shock back on to car and replace shock mount bolts and tighten. Replace passenger lower arm bolts and tighten. Replace wheels and tires.
- Lower car onto ground and set preload to desired ride height. Once preload is set the crossover rings on rear can be set. **IMAGE2** Place crossover at 3/4" to 1" above plastic spring divider. 3/4" will be a little bit more stiff. 1" will be a little softer and more plush.
- Now that car is on ground replace sway bar bolt and tighten.

## Step 11 — Vehicle Handling Warning



- Increasing the height of your vehicle raises the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections.
- Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

## Step 12 — Wheel Alignment, Headlight, and Safety/Security Systems Adjustment



- It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving.
- In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment.

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.