



K29-0830-1 T-MOTION LOCKOUT



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 ReadyLIFT.

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

PHONE: (435) 753-7774

EMAIL: customerservice@zbrozracing.com

WEBSITE: www.zbrozracing.com

LIMITED LIFETIME WARRANTY

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

Zbroz Racing builds suspension products to meet and exceed your expectations in quality, performance and durability. All Zbroz Racing 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 Racing 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 Racing 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 Racing packaging. Please call (435) 753-7774 to get an RGA# for any return. Customer is responsible for shipping costs back to Zbroz Racing. Returns without RGA# will be refused. Contact Zbroz Racing directly about any potentially defective parts prior to removal from vehicle.

Zbroz Racing is NOT responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, Zbroz Racing 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. READYLIFT IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.



TOOLS:

- 13mm Socket (1)
- 13mm End Wrench (1)
- Needle Nose Pliers (1)
- Flathead Screwdriver (1)
- 6mm Allen Wrench (1)



PARTS:

- Delete Link Rods (2)
- Torsion Spring Blocks (2)
- Lower Scissor Spacers (2)
- Lower Scissor Arm Hex Bolt (1)
- Upper Aluminum Spacers (To be used if running our T-Motion coil over conversion rear shock.) (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 ReadyLIFT 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.

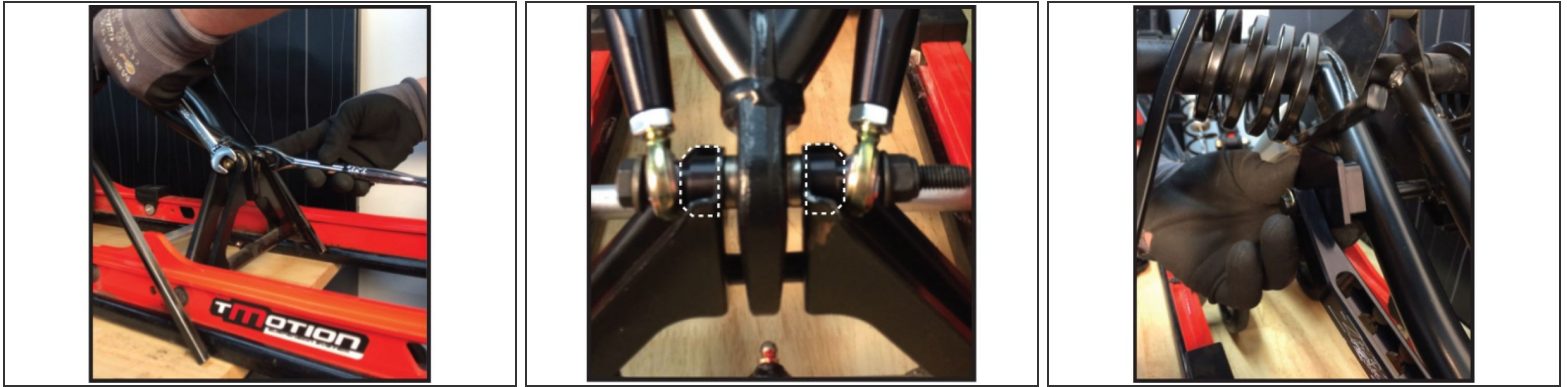
Step 3



- Begin by positioning the snowmobile on its side or removing the skid completely.
- (IMAGE 1) Once you have your snowmobile in position remove the torsion spring from the rail spring retainer on either side using a 6mm allen wrench and a 13mm end wrench.
- (IMAGE 2) Using your flathead screwdriver, gently remove the c-clips from the spring preload blocks on either side. Remove the spring preload blocks.
- **(i) NOTE:** Be sure to keep the stock c-clips as they will be used in reassembly.
- (IMAGE 3) Install new billet torsion spring blocks making sure you place them in the same position as the stock blocks.

⚠ If you have the ZBROZ coil over conversion rear shock, do not install the new billet torsion spring blocks. Install upper aluminum spacers instead.

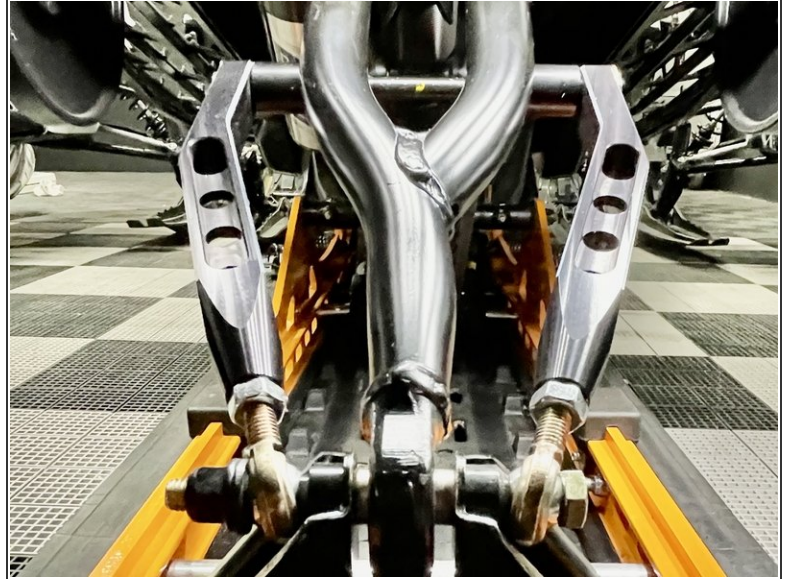
Step 4



- (IMAGE 1) Remove the lower scissor arm bolt.
- **(i) NOTE:** Be sure to keep the stock washer and nut as they will be used in reassembly.
- (IMAGE 2) Using the new bolt provided, reassemble the lower scissor arm with the new T-Motion lockout links on the outside of the spacers provided. Be sure the spacers are placed with the bevel towards the heim joints. see IMAGE 2.
- (IMAGE 3) Position the new preload blocks and new T-Motion links back over the stock upper swing arm assembly and replace c-clips.
- Adjust your torsion spring block to preferred setting using a flathead screwdriver. Reinstall torsion springs to rail using the 6mm allen bolt and 13mm wrench.
- If you had the snowmobile on its side reattach your rear torque arm bolts to the tunnel and torque to factory specifications.

⚠ Be sure to double check that you have retightened all the bolts back down to factory torque specs.

Step 5



- (IMAGE 1) The completed install with with the torsion springs will look like this.
- (IMAGE 2) The completed install with the ZBROZ coil over conversion shock will look like this.

By installing this product, you acknowledge that 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.