

PRO RYDE SUSPENSION SYSTEMS

PRO RYDE

EXACTLY THE WAY YOU WANT IT.™

PRO RYDE ADJUSTABLE FRONT LIFT KIT INSTALLATION

2016 + NISSAN TITAN XD
2017 + NISSAN TITAN (LD)

PATENTED

IMPORTANT!

Read ALL WARNINGS and information contained in these instructions PRIOR to installing this product. Vehicle Owner MUST be provided the IMPORTANT VEHICLE OWNER'S INFORMATION section of these instructions after installation of this product.

Bill of Materials

- (1) Installation Instructions & Warnings
- (2) 3-Piece Patented Upper Strut Kits
- (6) M10-1.5 Nylock Nuts
- (2) 1-1/4" -12 Large Adjustment Locking Jam Nuts
- (2) 1-1/8" Snap Rings
- (2) Tear-Resistant Nylon Bearings



ALWAYS WEAR PROPER EYE PROTECTION & USE TOOLS SPECIFIC TO THE JOB!

THIS PRODUCT HAS BEEN FACTORY PRE-TREATED WITH MARINE GRADE ANTI-SIEZE COMPOUND. NO LUBRICATION OF THE LARGE ADJUSTER THREAD IS NECESSARY PRIOR TO INSTALLATION.

STEP 1: On a flat, level surface, MEASURE pre-installation ride height, FRONT & REAR, and write down measurements.

Front (L) _____
Front (R) _____
Rear (L) _____
Rear (R) _____



STEP 2: Position vehicle on a stable, flat surface or automotive lift.

Suspend front wheels, lifting by the frame. Secure with jack stands & wheel chocks. Be sure engine is turned OFF and vehicle is in PARK.



STEP 3: Remove front wheels. Support lower control arm & spindle assemblies with jack or jack stand.

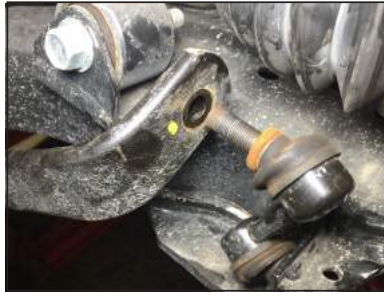


STEP 4: Disconnect ABS/vacuum line from their brackets to allow slack.



74-4200N-0718

STEP 5: Disconnect sway bar links at the lower control arm on both sides. Rotate sway bar up and out of the way to ease removal of strut.



STEP 6: Remove upper ball joint and tie rod end cotter pins. Loosen, **but don't completely remove**, upper ball joint & outer tie rod nuts. Leave both nuts finger tight.



*****BE SURE BRAKE LINES HAVE ADEQUATE SLACK, AND TO PROPERLY SUPPORT BRAKE & SPINDLE ASSEMBLY!*****

STEP 7: With stud nuts still installed, separate upper ball joints & outer tie rods from their tapers, using a hammer as shown.



STEP 8: Using a pry bar put pressure on upper control arm by inserting pry bar end under strut housing. Push down and remove ball joint nut. **SLOWLY** release pressure on pry bar until upper control arm is free.



STEP 9: Disconnect & remove lower strut mounting bolt.



STEP 10: Supporting the strut assembly, remove the three upper strut mounting fasteners.



STEP 11: The Strut/Spring assembly is heavy and can cause injury to technician or damage to other components if released too quickly. Carefully remove the OE strut assembly.



STEP 12: Install supplied tear-resistant Nylon Bearing to top of each Inner Adjustment Screw.



STEP 13: Install new adjustable Lift Machine spacer to upper strut & tighten using OEM nuts. ***IMPORTANT*** Make sure Lift Machine turns freely before tightening nuts.



STEP 14: Install Top Plate, Large Adjustment Locking Jam Nut and Snap Ring. Leave Jam nut slightly loose until final height adjustment.



STEP 15: IMPORTANT! Be sure the Threaded Adjustment Screw Rotates **FREELY** after securing kit to the OEM strut. If not, slightly loosen the three upper stud nuts and reposition the Threaded Adjustment Screw slight **UPWARD**. Re-torque upper stud nuts to manufacturer's specifications and recheck that the Threaded Adjustment Screw now rotates properly for adjustment after installation.

STEP 16: Install strut assembly and secure with the supplied Nylock nuts. The Threaded Inner Adjustment Screw should be threaded down in the most compact position for easiest reinstalation.



STEP 17: Torque stud nuts to manufacturer's specifications.



STEP 18: Install lower strut bolt and torque to manufacturer's specifications.



STEP 19: Reconnect Ball joint and tie rod end. Torque to manufacturer's specifications and install new cotter pins. TIP: The use of a pry bar between the upper control arm and spring will help with install.



STEP 20: Reconnect ABS/Vacuum line brackets that were disconnected in Step 4.



STEP 21: When finished with both sides, reconnect both sway bar links. Torque to manufacturer's specifications.



STEP 22: Reinstall tire/wheel assemblies, and check **ALL** suspension components and lug nuts have been properly torqued to manufacturer's specifications.



STEP 23: Lower the vehicle, jounce suspension and measure ride height of EACH SIDE of the vehicle. Measure from the bottom of the wheel/rim to the lip of the fender.



STEP 24: ADJUSTING FRONT RIDE HEIGHT AFTER INSTALLATION.

- 1) Lift vehicle by the frame, allowing wheels to hang freely. Secure using jack stands & wheel chocks.
 - 2) Loosen the **Large Adjustment Locking Jam Nut** several complete turns.
 - 3) Using a standard 1/2" ratchet or 24MM wrench, engage the Threaded Adjuster at the TOP of the new kit.
 - 4) Turn **COUNTER-CLOCKWISE** to **INCREASE** ride height, and **CLOCKWISE** to **DECREASE** ride height.
 - 5) Each full turn of the Threaded Adjuster will result in approximately 1/4" of ride height change.
 - 6) Each 1/2 turn of the Threaded Adjuster will result in approximately 1/8" of ride height change.
- IMPORTANT! RETIGHTEN THE LARGE 1-1/4"-12 TOP JAM NUT AFTER FINAL ADJUSTMENTS ARE MADE.**
- LOWER THE VEHICLE, JOUNCE SUSPENSION, AND MEASURE RIDE HEIGHT. BE SURE VEHICLE IS LEVEL FROM SIDE-TO-SIDE AND AT THE DESIRED RIDE HEIGHT, MAKING ADDITIONAL ADJUSTMENTS AS REQUIRED.



IMPORTANT! Check all fasteners for proper torque. Check to insure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering for interference and proper working order. Test brake system.

STEP 25: Perform a complete wheel alignment, utilizing a Certified Alignment Technician with experience working on lifted vehicles.



STEP 26: ADJUST HEADLIGHTS to accommodate new front ride height position.

Before:



After:



Complete a full 4-corner lift and install a ProRYDE SuperBLOK ADJUSTABLE rear Lift Kit!



74-4200N-0718

IMPORTANT VEHICLE OWNER'S INFORMATION

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Adjusting Lift/Leveling kit after installation

(1) Always wear proper eye protection! Position vehicle on a stable, flat surface and SUSPEND FRONT WHEELS, lifting by the frame with a floor jack or lift jack. Secure frame with jack stands. Chock tires and turn engine OFF prior to adjustment!

(2) Loosen the Large Top Jam Nut at top of strut tower SEVERAL complete turns.

(3) Using a 1/2" ratchet or 24MM wrench, engage the Threaded Adjuster at the TOP of the Adjustable Upper Strut Kit. **Turn COUNTER-CLOCKWISE to INCREASE ride height, and CLOCKWISE to DECREASE ride height.**

(4) JOUNCE SUSPENSION and be sure vehicle is LEVEL from side-to-side and at the desired ride height, making adjustments as required. Re-torque all fasteners to OEM specifications and **retighten the Large Top Jam Nut** to the Top Connection Plate of the kit!

Under no circumstances should this product be altered to adjust ride height beyond its design limits.

Remember! Any change to ride height will affect vehicle's Wheel Alignment and Handling! Always realign the vehicle any time ride height is adjusted, and be sure to adjust headlights as necessary.

Minimum Ride Height Change: 2.00" (at wheel well)

Maximum Ride Height Change: 2.75" (at wheel well)

WARNING

This product should only be installed and adjusted by an ASE certified professional mechanic with proper tools and safety equipment.

Installation of this product modifies vehicle ride height. The driver of this vehicle should avoid unnecessary or abrupt maneuvers, sharp turns and other driving conditions that could lead to rollover or other serious accident. This product will affect vehicle center of gravity resulting in less than the original OE stability characteristics.

The manufacturer of this product releases itself from any liability or consequence, inclusive but not limited to personal injury, failure of components or damage to vehicle or person as a result of installing this product.

Warranties may be declined for any parts installed by any person other than an ASE certified professional. No warranty will be made for any other OEM or aftermarket components that may be affected by the installation of this product either in use or during installation. This kit is intended for use on stock suspensions WITHOUT any previous modifications whatsoever. Installation of this kit in conjunction with other aftermarket products will be done at vehicle owner's own risk, and voids any and all warranties.

Installation of this part MAY limit or void some vehicle manufacturer's warranties!

ALWAYS DRIVE SAFELY, REDUCE SPEED, AND WEAR YOUR SEAT BELT.

LIMITED LIFETIME WARRANTY

This product is warranted to be free of defects in materials and workmanship to the original purchaser on the vehicle in which it is originally installed. This warranty does not cover loss of time, labor, or any other components as a result of damage. This warranty may be void if this product is installed by any person other than an ASE certified professional.