



PRO COMP SUSPENSION

[Suspension Systems that Work!](#)

**PN# 64160
2008-2010
Nissan Titan
2WD/4WD
Spacer Kit**

This document contains very important information that includes warranty information and instructions for resolving problems you may encounter. Please keep it in the vehicle as a permanent record.

Part #	Description	Qty.
90-4312m	STRUT SPACER	2
90-6317m	HARDWARE PACK: Strut Spacer	1
.100FNFLZ	10mm-1.25 SERRATED FLANGE NUT	6

NOTE: part images may vary from catalog and instructions.

<u>RECOMMENDED PRO COMP SHOCKS</u>		
	<u>2008-2010 Titan 4wd</u>	<u>2008-2010 titan 2wd</u>
Front Strut:	615053	615053
ES9000 (rear):	925543	924543
MX-6 (rear):	MX6061	MX6061

NOTE: Whenever you make changes to you suspension Pro Comp recommends that you have your alignment checked and your headlights adjusted. If your vehicle will not align you can install Pro Comp cam bolt kit 90-6410.

Optional Equipment Available from your Pro Comp Distributor!

4WD Suspension Lift Kit: 59001/59001MX
2WD Suspension Lift Kit: 59004/59004MX
4WD/2WD Coil Over Add On Kit: 59002BMX (Use With Suspension Lift Kit)
2WD Carrier Bearing Spacer Kit: 59003B (Use With Suspension Lift Kit)
4WD Traction Bars: 72300B (Crew Cab) Mounting kit: 79090B use w/ Suspension Lift Kit
4WD/2WD Rear MX-6 Shocks: MX6060 (Use With Suspension Lift Kit)
4WD Rear MX-6R Reservoir Shocks: MX6143R (Use With Suspension Lift Kit)
2WD Rear MX-6R Reservoir Shocks: MX6066R (Use With Suspension Lift Kit)
(Must be Ordered with MX-6R Shocks): Sleeve P-1036 (2 per shock) Bushing 600026 (2 per shock)
Rear MX-6R Reservoir Mounting Kit: 63012 or 63013
Motorsport Series Light Bar: 27000
Titan Rear Driveshaft Spacer: 90-4204B
Titan Cam Bolt Kit: 90-6410B

Also, Check out our outstanding selection of Pro Comp tires to compliment your new installation!

PLEASE NOTE:

Due to differences in manufacturing, dimensions and inflated measurements, tire and wheel combinations should be test fit prior to installation. Tire and wheel choice is crucial in assuring proper fit, performance, and the safety of your Pro Comp equipped vehicle. For this application, we recommend no larger than a 33" X 12.50" tire on an 8" wheel with a maximum backspacing of 5". Additionally, quality tire of radial design wide is also recommended. Violation of these recommendations will not be endorsed as acceptable by Pro Comp Suspension and will void any and all warranties either written or implied.

Introduction:

- ◆ This installation requires a professional mechanic!
- ◆ We recommend that you have access to a factory service manual for your vehicle to assist in the disassembly and reassembly of your vehicle. It contains a wealth of detailed information.
- ◆ Prior to installation, carefully inspect the vehicle's steering and driveline systems paying close attention to the tie rod ends, ball joints, wheel bearing preload, pitman and idler arm. Additionally, check steering-to-frame and suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition. Repair or replace all worn or damaged parts!
- ◆ Read the instructions carefully and study the illustrations before attempting installation! You may save yourself a lot of extra work.
- ◆ Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.
- ◆ Check the special equipment list and ensure the availability of these tools.
- ◆ Secure and properly block vehicle prior to beginning installation.
- ◆ **ALWAYS** wear safety glasses when using power tools or working under the vehicle!
- ◆ Use caution when cutting is required under the vehicle. The factory undercoating is flammable. Take appropriate precautions. Have a fire extinguisher close at hand.
- ◆ Foot pound torque readings are listed on the Torque Specifications chart at the end of the instructions. These are to be used unless specifically directed otherwise. Apply thread lock retaining compound where specified.
- ◆ **Please note that while every effort is made to ensure that the installation of your Pro Comp lift kit is a positive experience, variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at the number listed on the cover page. We do not recommend that you modify the Pro Comp parts in any way as this will void any warranty expressed or implied by the Pro Comp Suspension company.**

INSTALLATION INSTRUCTIONS:

1. Measure the vehicle from the center of the hub to the fender lip and record this measurement below.

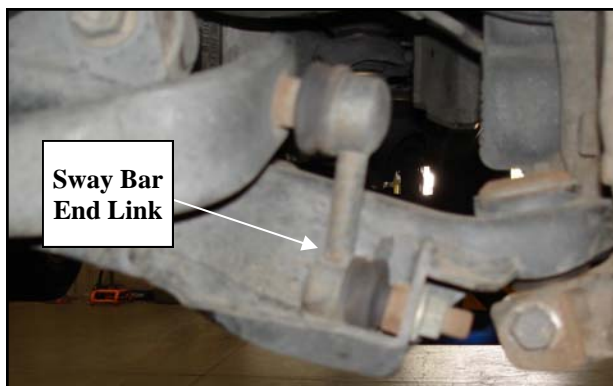
LF: _____ RF: _____

LR: _____ RR: _____

2. Be sure you are working on a level surface. Block the rear tires and raise the front of the vehicle. Support the frame with jack stands. Use floor jacks to support the axle so it can be lifted and lowered relative to the vehicle.
3. Remove the front wheels.

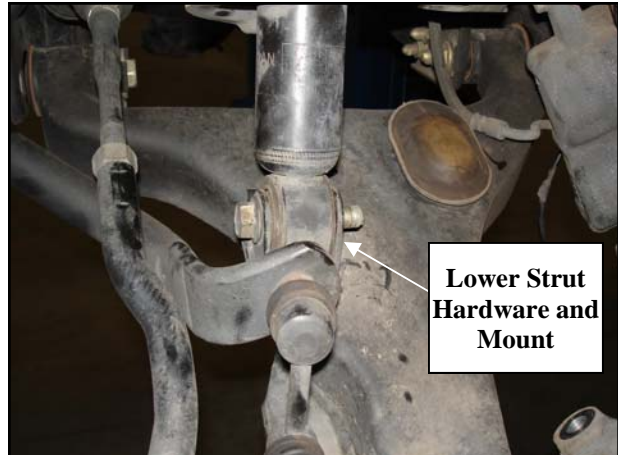


4. Unbolt the sway bar end links from the lower control arm. Save the hardware for reuse.

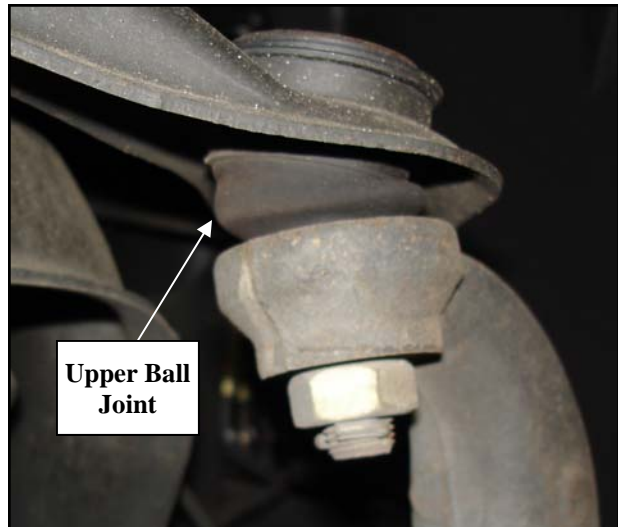


5. Starting on the driver's side, remove the lower strut bolt from the lower control arm.

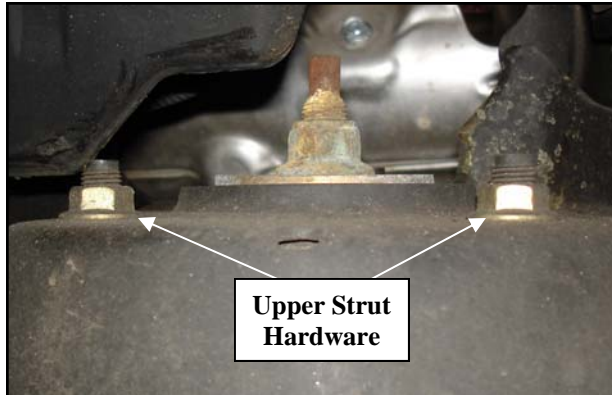
NOTE: The direction of the bolt for reinstallation.



6. Remove the cotter pins and loosen, but do not remove the upper ball joint nut.



7. Separate the upper ball joint taper from the spindle.
8. Support the lower control arm, remove the upper ball joint nut and lower the lower control arm.
9. Remove the upper strut nut on the strut tower (3) on each side of the vehicle that holds the strut assembly to the strut tower.



10. Remove the strut assembly from the vehicle and install securely in a bench vise.

11. Now would be a good time to inspect the front struts for damage or fluid leakage. Replace if necessary.

NOTE: For improved performance Pro Comp struts/shocks are recommended. See the box on page 2 for applications.

12. Install the strut spacer (**90-4312m**) onto the **OE** strut and secure using the previously removed **OE** hardware.



13. Rotate the strut (with the spacer installed) 180 degrees.

14. Install the strut assembly into the strut tower and secure using the upper (3) **10mm** flange nuts. (Make sure the bottom of the strut is aligned properly)

NOTE: The upper strut mounting

holes may need to be drilled out to 7/16”.

15. Using the floor jack, raise the lower control arm and reinstall. Torque the upper ball joint nut to manufacturer's specification and install a new cotter pin.

16. Torque all of the strut hardware to factory specifications.

17. Repeat steps 4 through 16 on the remaining side of the vehicle.

18. Install the front tires/wheels and lower the vehicle onto the ground. torque the lug nuts according to manufacturer's specifications.

19. Reinstall the sway bar end links to the lower a-arm using the previously removed **OE** hardware.

20. Recheck all previously loosened hardware.

21. Torque all bolts to factory specifications. Re-torque all bolts after 500 miles.

IMPORTANT! BE SURE TO BRING THE VEHICLE IMMEDIATELY TO A REPUTABLE ALIGNMENT SHOP TO BE ALIGNED!

NOTES:

⇒ **On completion of the installation, have the suspension and headlights re-aligned.**

⇒ **After 100 miles recheck for proper torque on all newly installed hardware.**

⇒ **Recheck all hardware for tightness after off road use.**

Before



After



Use this only as a guide for hardware without a called out torque specification in the instruction manual.

Bolt Torque and ID						
Decimal System			Metric System			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290

1/2-13x1.75 HHCS
D T L X

Grade 5 Grade 8
(No. of Marks + 2)

G = Grade (Bolt Strength)
D = Nominal Diameter (Inches)
T = Thread Count (Threads per Inch)
L = Length (Inches)
X = Description (Hex Head Cap Screw)

M12-1.25x50 HHCS
D T L X

P = Property Class (Bolt Strength)
D = Nominal Diameter (Millimeters)
T = Thread Pitch (Thread Width, mm)
L = Length (Millimeters)
X = Description (Hex Head Cap Screw)

Notice to Owner operator, Dealer and Installer:

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off-road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! Pro Comp reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

Please make sure your Dealer/Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Pro Comp product.

Application listings in this catalog have been carefully fit checked for each model and year denoted. However, Pro Comp reserves the right to update as necessary, without notice, and will not be held responsible for misprints, changes or variations made by vehicle manufacturers. Please call when in question regarding new model year, vehicles not listed by specific body or chassis styles or vehicles not originally distributed in the USA.

Please note that certain mechanical aspects of any suspension lift product may accelerate ordinary wear of original equipment components. Further, installation of certain Pro Comp products may void the vehicle's factory warranty as it pertains to certain covered parts; it is the consumer's responsibility to check with their local dealer for warranty coverage before installation of the lift.