



2004 - 2017 Nissan Titan 2WD / 4WD / XD 2" Leveling Kit Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- Ball Joint / Tie Rod Remover
- Floor Jack
- Jack Stands
- Measuring Tape
- Torque Wrench



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. Affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to the disassembly of the vehicle.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed, which makes the difference more visible. Using a measuring tape, measure the front of the vehicle (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: _____ Passenger Side Front: _____

Important Notes:

- This leveling kit is **not designed** to be used on **Pro-4X** models.
- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Nissan dealer or an authorized dealer for details.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

Component Box Breakdown:

Part #: NT20MS

Item #	Description	Qty
NT20MS-S	UPPER METAL STRUT SPACER	2
HB-10MMX50DES	HDWR BAG: 10MMX50DES	1

Item #	Description	Qty
I-NT20MS	INST SHEET: NT20MS	1

Hardware Bag Breakdown:

Part # HB-10MMX50DES

Item #	Description	Qty
10MMX50DES	10MM X 50MM DOUBLE END STUD	6
10MMN-1.25	10MM - 1.25 NYLON LOCK NUT	6

Item #	Description	Qty
38SAEW	3/8" SAE WASHER	6

Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle & support the vehicle securely using jack stands.
3. Remove the front tires / wheels using a 13/16" socket. (See Photo # 1)
4. Disconnect each OEM brake line from the OEM steering knuckles using a 13mm socket / wrench. (See Photo # 2)
5. Disconnect each OEM outer tie rod from the OEM steering knuckles using a 22mm socket / wrench & tie rod remover or other suitable tool. (See Photo # 3)
6. Disconnect each OEM sway bar end link from the OEM lower control arms using a 17mm socket / wrench. (See Photo # 4)
7. Disconnect each OEM upper ball joint from the OEM steering knuckles using a 22mm socket / wrench & ball joint remover or other suitable tool. (See Photo # 5)



8. Mark the outside of each OEM lower strut assembly eyelet & disconnect each OEM strut assembly from the OEM lower control arms using a 19mm or 22mm (XD Models) socket / wrench. (See Photo # 6)
9. Disconnect each OEM strut assembly from the upper strut mounting brackets using a 14mm socket / wrench. (See Photo # 7)
10. Remove each OEM strut assembly from the vehicle.
11. Apply the supplied thread locking compound to the coarse threaded end of the supplied double ended studs & thread into each new Skyjacker upper strut spacer. (See Photo # 8)
12. Install a new Skyjacker upper strut spacer on top of each OEM strut assembly using the OEM hardware & a 14mm socket. (See Photo # 8)
13. Install each OEM strut assembly by aligning the new Skyjacker upper strut spacer studs with the upper strut mounting brackets using the supplied 10mm nuts, 3/8" SAE washers, & a 17mm socket / wrench. (See Photo # 9) **Note:** Do not fully tighten at this time.
14. Connect each OEM strut assembly to the OEM lower control arms using the OEM hardware & a 19mm or 22mm (XD Models) socket / wrench. (See Photo # 6) **Note:** It may be necessary to use a large adjustable wrench to rotate the bottom eyelet of each OEM strut assembly to align with the lower mount on the OEM lower control arms. Fully tighten the upper & lower OEM strut assembly hardware at this time using a 17mm, 19mm, or 22mm (XD Models) socket / wrench.
15. Using a floor jack, raise the lower control arm & connect each OEM upper ball joint to the OEM steering knuckles using the OEM hardware & a 22mm socket / wrench. (See Photo # 5)
16. Connect each OEM sway bar end link to the OEM lower control arms using a 17mm socket / wrench. (See Photo # 4)
17. Connect each OEM outer tie rod to the OEM steering knuckles using a 22mm socket / wrench. (See Photo # 3)
18. Connect each OEM brake line to the OEM steering knuckles using a 13mm socket / wrench. (See Photo # 2)
19. Install the front tires / wheels using a 13/16" socket & lower the front of the vehicle to the ground. (See Photo # 1)



Final Notes:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

<u>TORQUE SPECIFICATIONS</u>					
<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- **The above specifications are not to be used when the bolt is being installed with a bushing.**

Seat Belts Save Lives, Please Wear Your Seat Belt.