2022+ Nissan frontier Lift Kit Installation Instructions

Congratulations on Your purchase and welcome to the Bushmaster 4x4 family.

Notes:

- This product is intended for off-road use only.
- Improper installation or misuse of this product may result in vehicle damage, serious injury, or death.
- It is highly recommended that installation be performed by a certified automotive technician or an individual with verifiable experience in the installation of suspension components and vehicle modifications.
- The purchaser assumes all responsibility for the correct installation, maintenance, and use of this product.
- By installing this product, the end user acknowledges the inherent risks associated with modifying vehicle suspension systems and agrees to release the manufacturer and seller from any liability related to improper installation, use, or application.
- Use of an automotive lift is highly recommended
- Never work underneath a vehicle that is not properly supported.
- A professional alignment is required after installation.

Tools Required For Installation

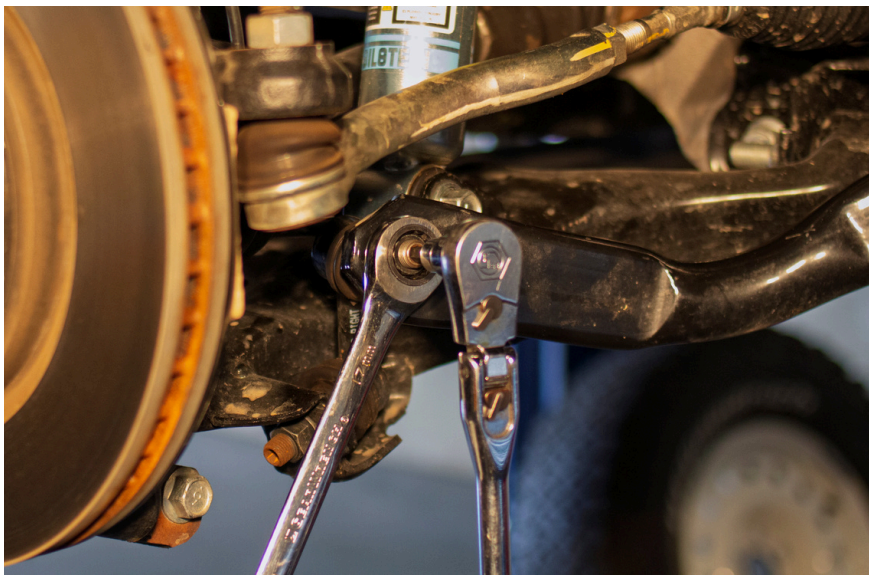
1. Floor jack and jack stands or a lift and pole jack
2. Impact Wrench and 21mm socket
3. 6mm allen wrench or socket
4. 17mm and 19mm Wrenches
5. Ratchet
6. Shallow 10mm and 12mm socket
7. Deep 14mm, 18mm and 19mm sockets
8. Extensions

Front Lift Install

Step 1: Lift and properly support vehicle

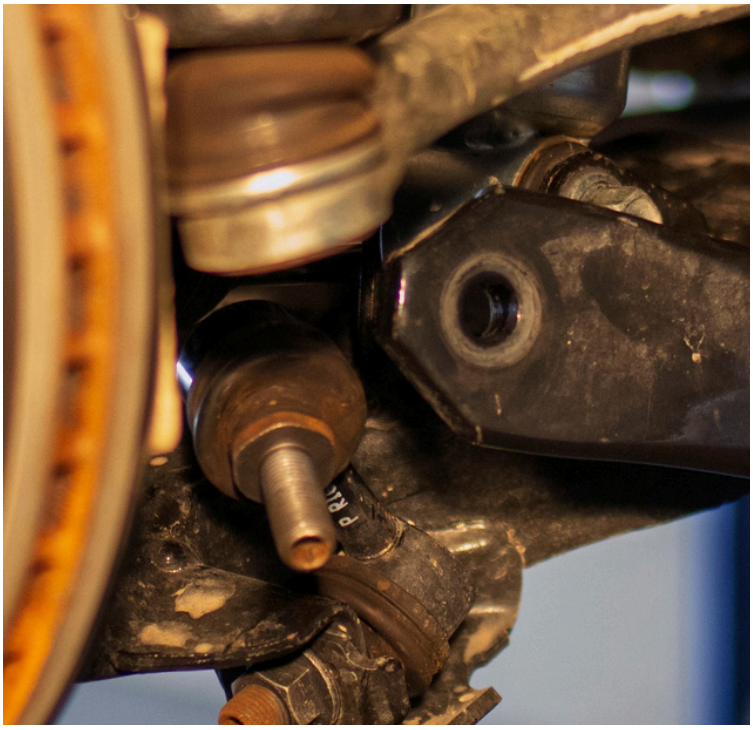
Step 2: Remove the front wheels

Step 3: Using 17mm wrench and 6mm allen remove sway bar end link nut



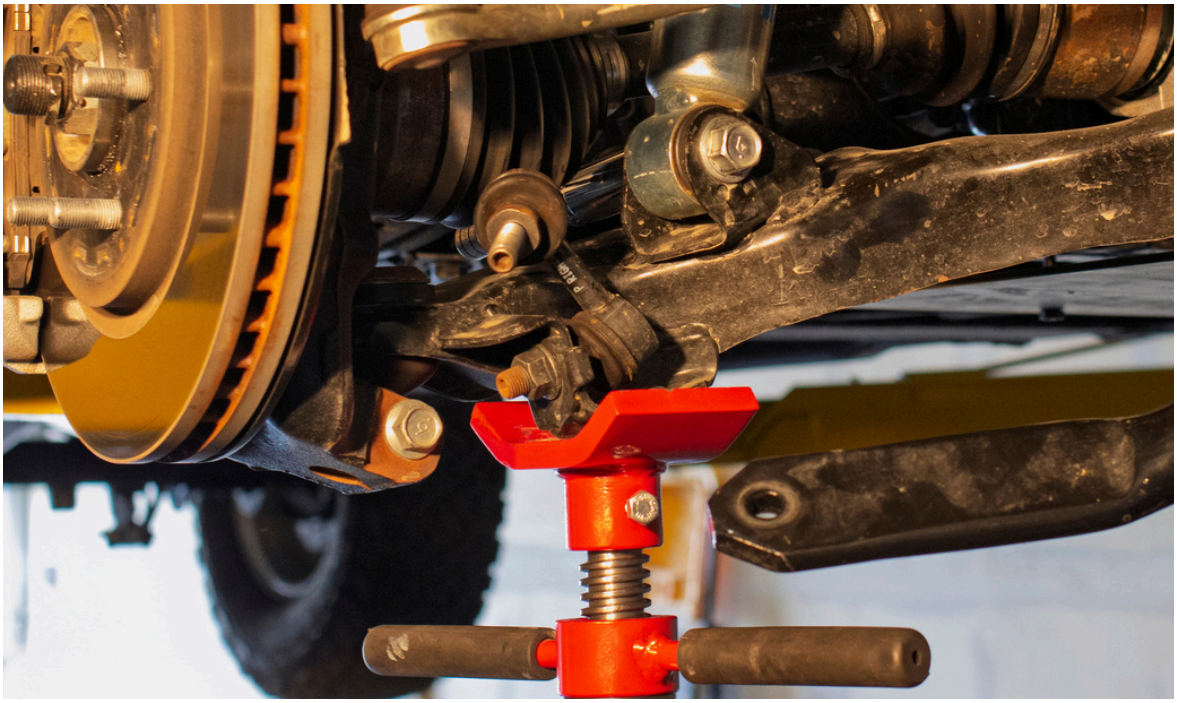
(Repeat step on both sides)

Step 4: Remove sway bar end link from sway bar and swing to the side.



Step 5: Swing sway bar out of the way

Step 6: Support lower control arm with floor or pole jack

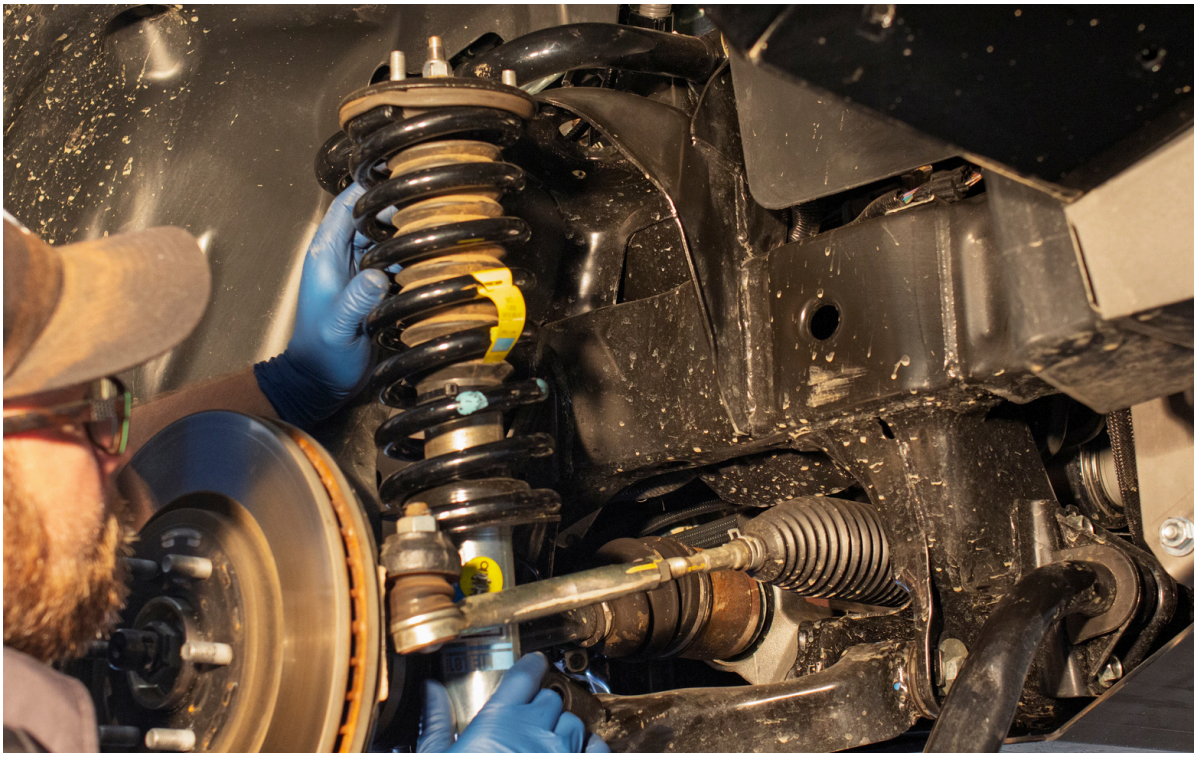


Step 7: Using 14mm socket remove upper shock nuts

Step 8: Using 19mm socket and 19mm wrench remove the lower shock nut and bolt

Step 9: Drop lower control arm by about ½ inch, carefully lower shock until the upper shock mount clears the frame

Then Pivot the shock away from frame, Lift up and out. (Be careful not to damage wheel speed sensor wiring or the fender during removal).



Step 10: Install in reverse order (Tighten the lower shock bolts only when the vehicle is sitting on its wheels or the suspension is fully loaded. If you tighten them with the suspension hanging, Bushing damage may occur)

Step 11: Have an alignment performed by your favorite local shop (If you purchased lower control arm eccentric bolts, bring them to your alignment shop)

Step 12: Recheck all fasteners after alignment and periodically when performing other maintenance

Note: Shocks in pictures may differ from the kit you've purchased, These instructions are universal to all front shock kits we sell.

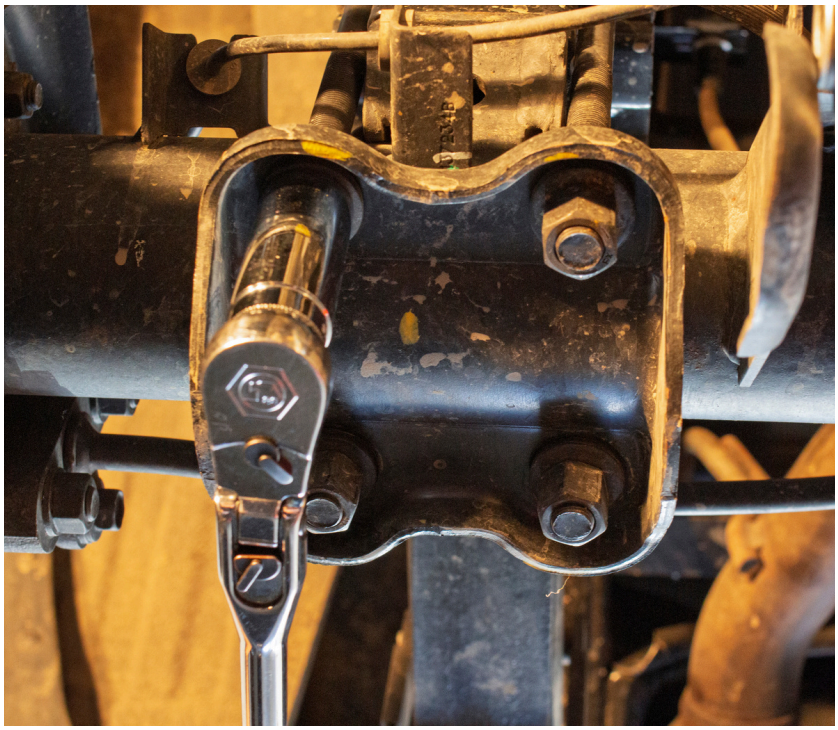
Rear Lift Block Installation

Step 1: Lift and properly support vehicle, if using jack stands you'll need to place them under the frame, not the axle.

Step 2: Using floor jack or pole jack support rear axle

Step 3: Using 19mm socket and wrench remove lower shock nut and bolt

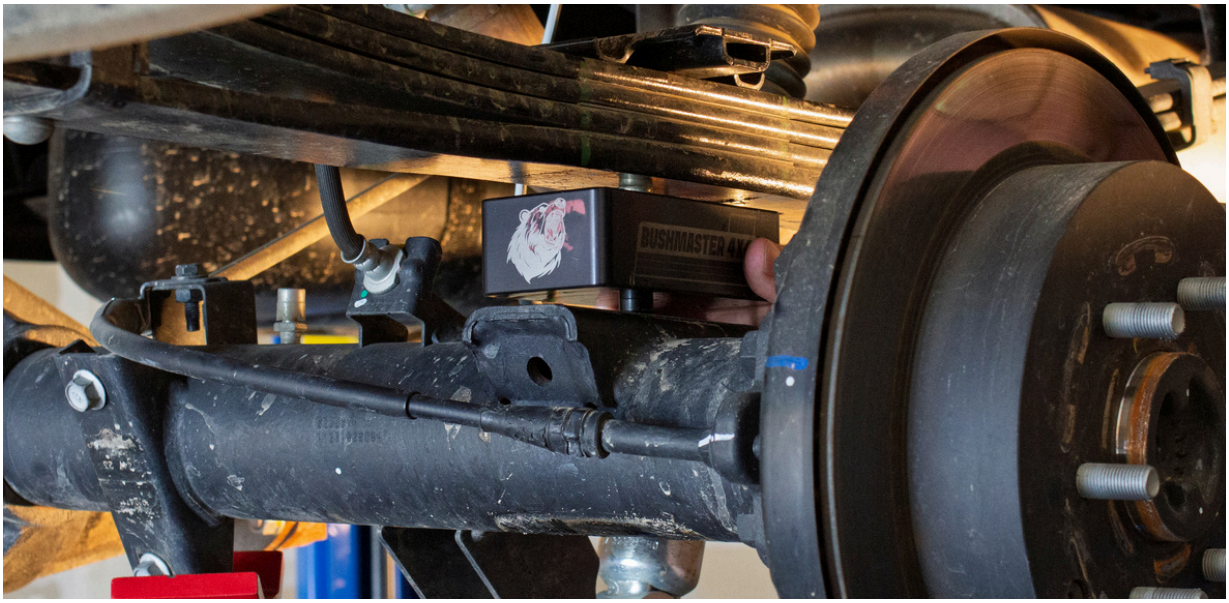
Step 4: Remove U-bolt nuts using 18mm socket



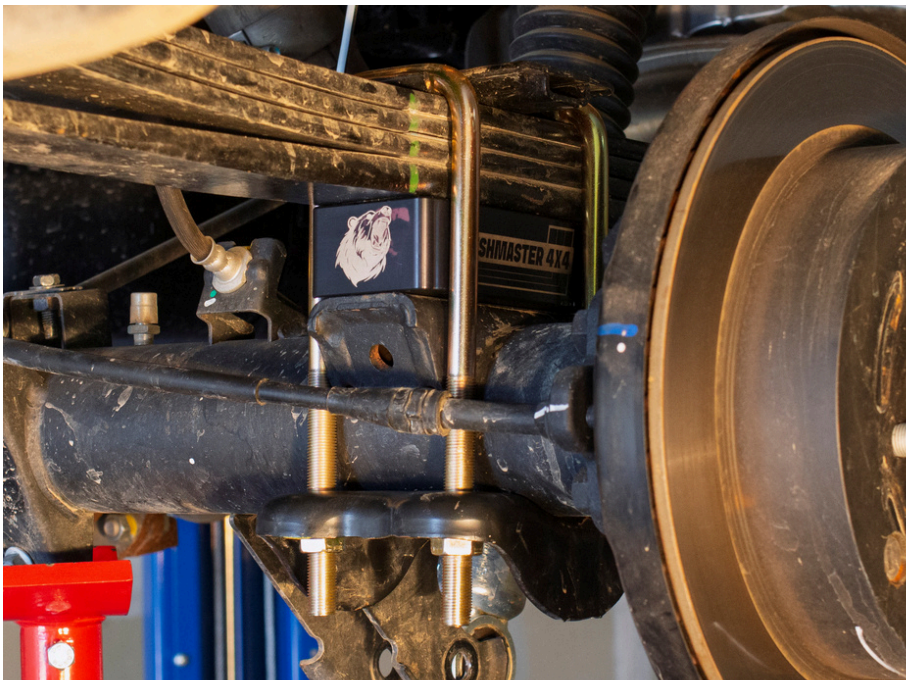
Step 5: Remove U-bolt plate and U-bolts. (U-bolt plate will be reused)

Step 6: Carefully lower the axle until the lift block can be installed. Be mindful of brake lines and wheel speed sensor wiring. Do not overextend.

Step 7: Install the lift block with the locating dowel facing down. Align the spring locating dowel with the hole marked "Frontier". Position the block with the Bear logo facing the rear.



Step 8: Raise the axle until the lift block contacts the leaf spring and guide the dowel into the block



Step 9: Install the new U-bolts and the original U-bolt plate.

Step 10: Torque U-bolt nuts to 70 Ft-Lbs

Step 11: Re-install lower shock nut and bolt, (wait to tighten until suspension is loaded or bushing damage will occur)

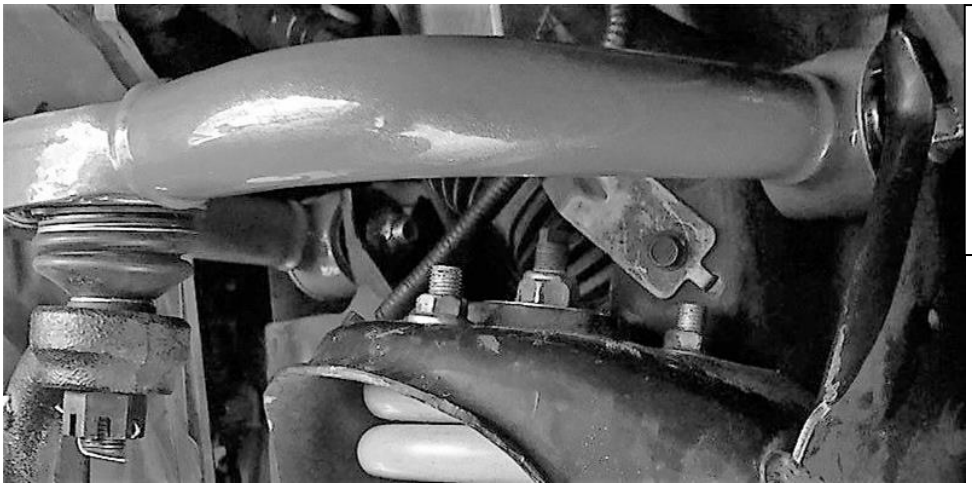
Step 12: Test drive the vehicle and recheck all U-bolt torques. Continue to monitor torque during routine maintenance.

Thank you for choosing Bushmaster 4x4. Enjoy your upgraded ride!

Fitting Instructions #TRC6540IS

Nissan Navara D40
Nissan Navara D23/NP300
Pre-set Camber/Caster Upper Control Arms

** Superpro recommends all work is carried out by qualified mechanic**



Kit Contents
1 x LH Arm - Complete with H/D ball joints and bushings

1 x RH Arm - Complete with H/D ball joints and bushings

1. Before beginning any alignment work, always check for loose or worn parts, proper tyre pressures, and odd tyre wear patterns. Replace any loose or worn parts before setting alignment;
2. Raise vehicle by the chassis and support with jack stands. Remove front tyre and wheel assemblies;
   Tip – lifting/jacking lower control arm slightly may improve access to upper ball joint (see Figure 1 below).

Figure 1

3. Remove split pin and nut holding OEM ball joint to spindle. Break the taper between the ball joint stud and spindle and remove the ball joint from the spindle. Support the spindle so no strain is applied to ABS wiring or brake lines;
4. Remove the nut mounting bolts and remove the bolts and arm.
   Note: To provide clearance to remove the rear bolt on the driver's side, it is necessary to remove bolt holding steering shaft to the rack. (Before removing bolt on steering shaft, mark position with a marker to maintain alignment when reassembling if shaft becomes separated) Once the bolt on the steering shaft is removed, move the shaft so the bolt can be removed (shaft may need to be removed to remove bolt). Refer Figure 2 over page.

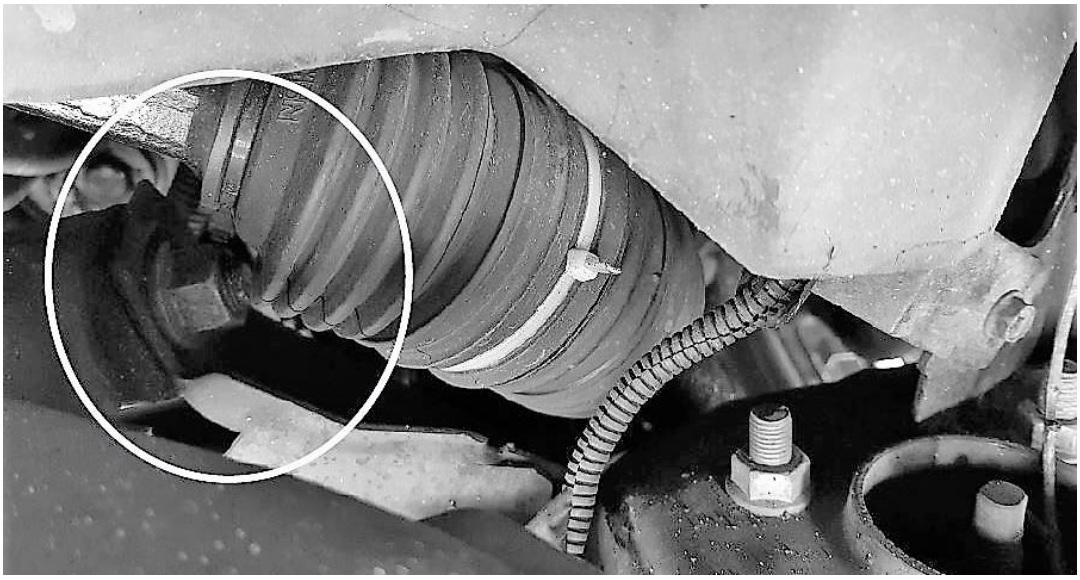


Figure 2

5. Using supplied grease only, lightly coat the ends of the bushing.
6. Install the upper control arms to the vehicle. **Important:** new control arms are marked "LH and RH", ensure that this is installed correctly.
   Note: Unlike bonded or rubber bushings, SuperPro bushings pivot freely and so can be torqued without applying vehicle weight. It is **recommended** to use Loctite on the bushing's bolt/nut as it may be difficult to get a spanner in to that area to fully tighten.
7. Insert the ball joint stud into the spindle, install the supplied castle nut and torque to 110Nm. Tighten further until the supplied split pin can be installed.
8. Re-install the tyre and wheel assembly. Lower vehicle and check for clearance and wheel align.

Important note:

- New control arms are designed to suit a 25-45mm lift.
- The addition of a strut-top spacer may present an issue when wheels are at full droop. It is up to the installer to ensure that the ball joint is not breached (or bound) while wheels are at full droop.

Figure 3: Example – strut-top spacer