

# Nissan Frontier 2WD/4WD 2.5" Leveling Strut Extensions

## Parts:

2 - Front Strut Extensions    6 - 10mm Studs  
6 - 10mm Nuts                    6 - 10mm Lock Washers  
    6 - 10mm Flat Washers

## PRE-INSTALLATION

**Professional installation by a certified technician is strongly recommended.**

*Not responsible for altered products. No claims are made regarding any lifting devices. Any and all claims implied in this document excluded.*

### NOTES:

The following instructions assume the use of factory wheels with size 35x12.50x18 tires. The use of wider tires will require trimming and offset wheels.

### REQUIRED TOOLS:

14mm Socket    22mm Socket    19mm Wrench  
19mm Socket    17mm Wrench    Hammer  
Floor Jack & Stands

### Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
3/8"	30 ft/lbs	35 ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16"	45 ft/lbs	60 ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2"	65 ft/lbs	90 ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16"	95 ft/lbs	130 ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8"	135 ft/lbs	175 ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4"	185 ft/lbs	280 ft/lbs			

## INSTALLATION INSTRUCTIONS

**STEP 1:** Jack up front of vehicle so that front wheels are off the ground. Support vehicle with jack stands.

**STEP 2:** Remove front wheels.

**STEP 3:** Remove cotter pin from upper control arm ball joint nut. Support knuckle with jack stand and remove upper ball joint nut. (22mm socket - save factory hardware) Hit the knuckle with hammer on the side to separate the ball joint from the knuckle, but don't let the knuckle to pull out so far that the shaft pulls out of the differential.

**STEP 4:** Remove sway bar bolts and allow sway bar to drop. (17mm wrench - Save factory hardware)

**STEP 5:** Remove nuts on upper strut tower that holds assembly in place - one nut may be left on upper bolts to hold strut in place. (19mm wrench)

**STEP 6:** Remove strut bolt from lower control arm. Remove strut assembly from vehicle. Make note of direction of lower bolt and save for reinstallation. (19mm socket and 19mm wrench)

**STEP 7:** Install new strut spacer on strut using factory hardware. (14mm wrench)

**STEP 8:** Install strut assembly into strut tower. Secure with included nuts, flat washers and lock washers. (17mm wrench)

**STEP 9:** Install lower strut bolt in original direction. (19mm socket and 19mm wrench - Torque to factory specs)

**STEP 10:** Raise lower control arm, connect upper ball joint on upper control arm to spindle and torque to factory specs. (22mm socket) Use wrench to keep ball joint from turning while tightening,

**STEP 11:** Reinstall sway bar bushings and nut. (17mm wrench and factory hardware) Torque to factory specs.

**STEP 12:** Repeat steps 3-13 on opposite side of vehicle

**STEP 13:** Reinstall front wheels.

**STEP 14:** Jack up vehicle and remove jack stands. Lower vehicle to floor. Torque all bolts to factory specs.

**STEP 15:** Have alignment done by a certified alignment professional

## POST-INSTALLATION

**STEP 1:** Check for proper torque on all fasteners. Check steering for proper working order and check for interference. Test brake system. Check clearance between all rotating, mobile, fixed and hot parts.

**STEP 2:** Check distance between tire sidewall and the brake hose during full-turn to full-turn steering sweep. Do not skip this step! Any contact may result in component failure.

**STEP 3:** Adjust headlights to proper alignment.

**MAINTENANCE:** After 500 miles, re-torque all fasteners. (Recommended every 1000 miles thereafter) Have all suspension, driveline and steering components inspected by a certified technician during routine maintenance (Recommended every 3000 miles)