



Nissan Xterra & Frontier 2WD & 4WD 2005-2014 Front Spacer Instructions 33250/32250

**Please read instructions thoroughly and completely before beginning installation.
Installation by a trained mechanic is recommended.**

Vehicle Handling: Modifying your vehicle ride height may result in vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. The manufacturer does not recommend the combined use of suspension lifts, body lifts, or other lifting devices. You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

Installation: Always wear proper safety equipment and use the correct tools when installing any suspension upgrade. Make sure vehicle is on a flat surface and you are using jack stands or a lift rated for the weight of the vehicle.

Safety Warning: It is recommended that this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/reassembly procedures and post installation checks must be known.

Pre Installation Notes:

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of leveling kit components. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, the manufacturer recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

Note: Light Racing 25540 upper control arm recommended for optimal performance and to prevent coil bucket contact on some vehicles. May require part #SPC87520 camber bolt kit, for proper alignment, on vehicles that do not have existing camber bolts.



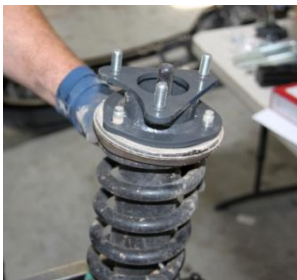
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1. Position truck on a flat surface and lift the front wheels off the ground using jack stands or a two post lift if available. Remove the wheels and tires on both sides. Remove the two lower sway bar nuts on both sides of truck. Note: It is recommended that you complete the installation on one side of the vehicle before beginning the other side.

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2. Remove the driver's side cotter pin and remove the upper ball joint nut. Using a floor jack to support the lower a-arm remove the upper ball joint nut and lower the lower a-arm assembly until you can remove the strut. *Use of a hammer or a ball joint press to break the ball joint free may be needed.*

3. Remove the strut from the vehicle and mount it in a bench vise. Install the leveling kit. Torque fasteners to OEM specification.

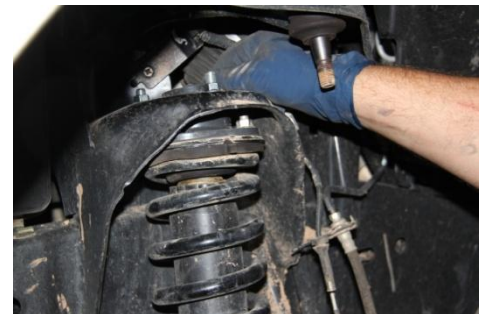


4. Reinstall the strut assembly in its stock location by first loosely attaching 3 upper nuts on the top of the spring spacer.

5. Raise the floor jack and the lower a-arm assembly and reinstall upper ball joint nut and cotter pin, tighten upper strut hardware and re-torque all hardware to the stock specifications.

6. Repeat steps 1 through 6 on the Passenger Side of the vehicle. Then re-install the sway bar nuts on both sides and re-torque to the factory specifications.

7. Wheel Alignment; a Certified Alignment Technician that is experienced with lifted vehicles is recommended to perform the alignment. It is recommended that you have your vehicle's alignment checked whenever installing new tires.





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Post Installation Warnings:

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/replacement may result in component failure. Longer replacement hoses, if needed can be purchased from a local parts supplier.
3. Headlight adjustment is highly recommended.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.