



## GENERAL INSTRUCTION GUIDELINES

### READ THIS FIRST:

- Read these instructions fully prior to beginning work. Verify all parts listed below are in the kit packaging, and all tools, equipment, skills and methods are on hand to safely complete the installation.
- Read the attached GENERAL INSTALLATION NOTES prior to beginning any work.
- Installation of these components should be performed by experienced and qualified mechanics, using safe and correct tools and equipment. Northwoods recommends this installation be performed by a qualified, certified automotive shop.
- Use safe methods in all work operations. Support the vehicle safely as required on a lift or hoist, or certified jack stands.

## GENERAL INSTALLATION NOTES

- Installation shall be performed by qualified, experienced mechanics capable of performing this type of work. Northwoods recommends the work be performed in qualified ASE certified shops.
- Use only quality, certified tools and equipment appropriate for the job.
- Vehicle should only be supported by certified hoists, lifts, or jackstands of adequate capacity.
- Use only certified, dedicated spring compressors to compress and assemble springs. Northwoods recommends springs only be assembled and installed by qualified auto repair shops, using quality spring compression tools.
- Actual lift heights will vary by vehicle due to vehicle accessories, weights, loading, wear, initial ride height, and other factors.
- Upon completion of installation of springs or other suspensions and steering components, vehicles should be immediately aligned at a qualified shop.
- Modification to vehicle ride height requires re-alignment of headlights.
- Full inspection of all components installed should be checked after 300 miles of driving, including torque of all fasteners.
- Modified vehicles will handle and perform differently from stock vehicles, and the modified vehicle characteristics should be considered for driving safety. Modified vehicles may have affects to vehicle steering and response, and increased braking distances due to increased vehicle weight or larger tires.
- Modified vehicles may exhibit increased wear to suspension and other components, as well as an increase in vibration due to changes in component alignment and operating angles.
- Northwoods Performance Warranty, Return, and Replacement policies can be found on-line at [northwoodsperformance.com](http://northwoodsperformance.com), RESOURCES tab.



## REAR SPRING INSTALLATION INSTRUCTIONS

Toyota Highlander, Lexus RX

Installation time: 3-4 hours

### REAR LIFT KIT MATERIAL LIST

- Rear Springs

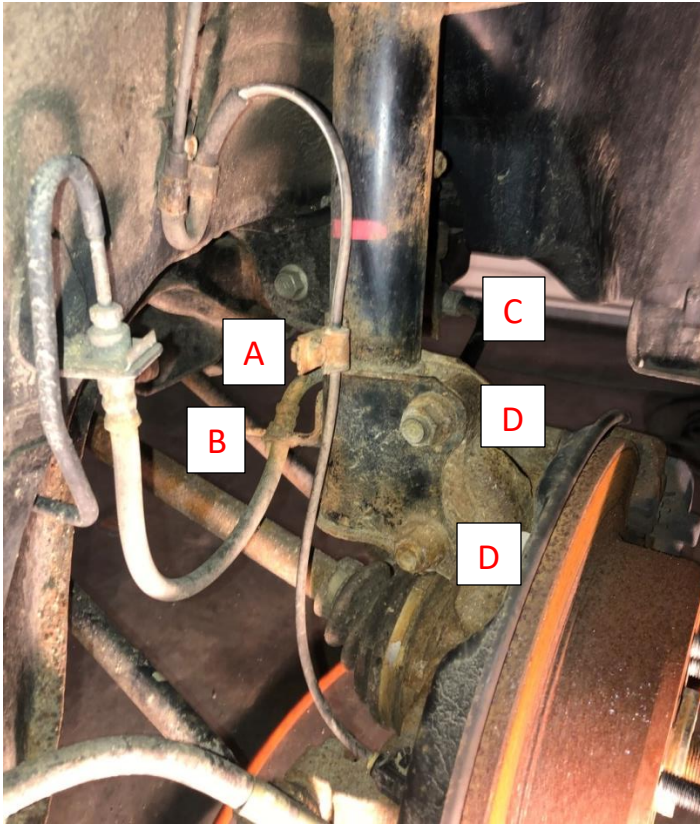
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### REAR STRUT REMOVAL

1. From inside the rear cargo bay, remove the plastic cover over the top strut mount, and remove the three strut top retaining nuts.



2. Remove brake and ABS line bracket (A), the brake line clip (B), the upper and lower sway bar link bolt (C, 5mm hex and 14mm box end wrench), and the upper and lower knuckle bolts (D, 19mm).



3. Remove the strut.

#### IF NORTHWOODS SPRINGS ARE BEING ASSEMBLED ONTO STRUTS, COMPLETE NOW

Northwoods recommends installing the lift kit and tuned springs with new struts and hardware for best performance.

1. Using a dedicated strut compression tool, compress the spring.
2. Remove the top plate retaining nut.
3. Disassemble the strut.
4. Clean and inspect all parts. Discard and replace worn or defective parts.
5. Assemble the strut with the Northwoods spring.
6. Proceed to spacer installation on the strut.

#### STRUT INSTALLATION

Strut installation is in the reverse order of removal.

1. Place the strut in place, and secure loosely in place with three nuts from the strut spacer through the car body. Use a thick washer under the strut mount nuts. Do not tighten.
2. Align the upper and lower knuckle bolts and install. Tighten securely.
3. Install the brake and ABS line bracket with the bolt.
4. Grease the sway bar links. Install the new sway bar links. Install from inboard to outboard, with the studs facing outboard on both the top and bottom. Grease zerks face rearward. Tighten securely.
5. Lower the car from the lift and securely tighten the strut spacer to car body nuts.