



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, RESOURCES tab.



NORTHWOODS

PERFORMANCE

STREET FIGHTER NO-LIFT INSTALLATION INSTRUCTIONS

Toyota Highlander 2014 – 2019, RX350 2010 – 2015, RX450H 2010 - 2015

Installation time: 3-4 hours

FRONT LIFT KIT MATERIAL LIST

- | | |
|------------------------|---|
| ● Front strut | 2 |
| ● Front sway bar links | 2 |
| ● Flange Hex nut 10mm | 6 |

REAR LIFT KIT MATERIAL LIST

- | | |
|---------------------|---|
| ● Rear coil springs | 2 |
| ● Rear shocks | 2 |

FRONT STRUT REMOVAL

1. From inside the engine bay, remove the wiper arms, and the cowling cover to access the upper strut mounts.



2. Remove two of the three strut top retaining nuts (14mm). Loosen the third.
3. Remove brake and ABS line bracket (A, 12mm), the ABS line clip (B), the upper and lower sway bar link bolts (C, 6mm hex and 17mm box end wrench), the upper and lower knuckle bolts (D, 22mm). Support the knuckle assemble to keep the axleshaft from overextending.
4. Remove the last upper strut body nut and remove 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 flange nuts from the strut through the car body. 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. Complete both sides.
5. Grease the sway bar links. Install the new sway bar links.
6. Lower the car from the lift and securely tighten the strut spacer to car body nuts.
7. Reinstall the windshield cowl.

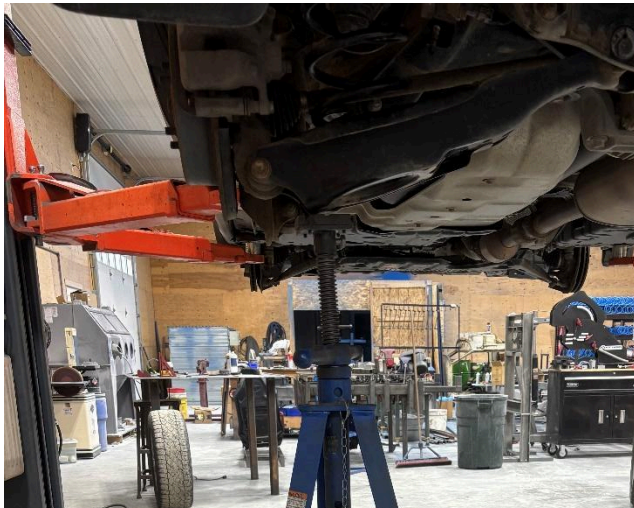


REAR SPRING AND SHOCK REPLACEMENT

1. Remove the sway bar at the lower links on the lower control arm both sides. Swing the sway bar up and out of the way.



2. Mark the lower control arm (LCA) bolt cam indicators for alignment position.
3. Loosen the inboard LCA nuts. Do not remove.
4. Remove the shock absorbers.
5. Place a jack under the LCA to support the spring tension on the arm.
6. Remove the outboard LCA bolt.
7. Lower the LCA with the jack to release the spring tension. Remove the spring.



8. Install the Northwoods spring. Raise the LCA into position to capture the spring, and continue to raise the LCA with a jack, compressing the spring. Continue until outboard LCA / knuckle is lined up and install the bolt.



9. The lower control arm inboard and outboard bolts should be finger tight.
10. Install the shock absorber.
11. Complete both sides. Install the sway bar links to the LCA.
12. Lower the vehicle and bounce gently to settle the car. Tighten the inboard and outboard LCA bolts with the vehicle sitting on its own weight. Go back to original cam position for initial alignment.
13. Perform a final inspection.
14. Get an alignment. Your vehicle will be able to be aligned right back to factory spec. with this lift.