



2017-2025 2.5-inch lift kit installation guide
Professional installation is recommended

IMPORTANT!

Lifting and modifying the suspension on your vehicle may result in drive line vibrations, damaged bushings, erratic handling characteristics, and shortened suspension component life. HRG Offroad recommends the following:

- Checking and/or replacing worn drive axles with new parts, not remanufactured.
- Checking and/or replacing all worn factory rubber bushings with urethane bushings, such as Prothane.
- Checking and/or replacing worn shock absorbers and bump stops.
- Performing a 4-wheel alignment after working on suspension components.

Lift kits may not be legal for use on public highways in your area. Please check local laws before installing!!

WARNING!

Lifted vehicles are more prone to rolling over.

Some HRG Offroad products are designed to improve off-road capabilities. Modifying the suspension of your vehicle may result in handling characteristics that are different from a factory equipped vehicle. Extreme care must be used to prevent a rollover or loss of control. Always operate your modified vehicle at a reduced speed to ensure your ability to maintain control under all driving conditions. Driving your vehicle in an unsafe manner may result in serious injury or death. HRG Offroad lift kits are designed and tested to work together. HRG Offroad does not recommend combining this lift kit with any other type of suspension or body lift. Always wear your seat belt.

Recommended tire size:

245/60/18 (stock) (29.6")
255/60/18 (30.0")
245/65/18 (30.5")
265/60/18 (31.1")

Be sure to check fitment prior to installation! These sizes are only suggestions. HRG is not responsible for improperly fitted wheels/tires!

Included in the kit:

2 2.5" front lift spacers
2 1.0" or 1.5" rear lift spacers
6 M10 nuts (front lift spacers)
6 M10x50mm grade 10.9 bolts (**1.0 rear**)
6 M10x60mm grade 10.9 bolts (**1.5 rear**)
2 Replacement front sway bar links
2 0.75x1 M8 spacers (driveshaft protector)
2 M8x40 bolts (driveshaft protector)
2 M10x90 bolts (engine mount)

4 M10x50 bolts (driveshaft carrier bearings)
3 M8x40 bolts (gas tank bar)
4 M14x160 bolts (front subframe)
16 M12x50 bolts (front and rear subframe brackets)
4 M14x160 bolts (rear subframe)
2 M12x70 bolts (exhaust)
2 M12 nuts (exhaust)
3 0.75x1 M8 spacers (gas tank bar)
4 1x1 M10 spacers (driveshaft carrier bearings)
2 1x1 M10 spacers (engine mount)
4 2.75x1 M14 spacers (front subframe)
4 3.5x1 M14 spacers (rear subframe)
16 1.25x1 M12 spacers (front and rear subframe brackets)
1 1 inch foam seal (steering column)
2 BLB-Z brackets (front brake line)
2 BLB-2 brackets (rear brake line)
4 M8x25 bolts (brake line brackets)
4 M8 nuts (brake line brackets)
3 extended exhaust hangers

TOOLS REQUIRED: Floor jack, lug wrench, metric socket set to 21mm, 36mm axle socket, metric wrench set to 19mm, impact wrench, pliers, heavy hammer, 4 foot pry bar, screwdriver, plastic cutting tool, torque wrench and paint pen.

Note to installer: Some bolts removed to install lift kit will be replaced with longer bolts. Some OEM hardware will be reused. **Installing this kit requires cutting of plastic splash shield and sheet metal surrounding steering coupler to allow clearance.**

Approximate installation time: 5-7 hours.

Skill level: Difficult

Video Link:



Front installation:

Step 1. Disconnect negative battery terminal.

Step 2. Remove 2 M10 bolts holding passenger side engine dampener to engine bracket.



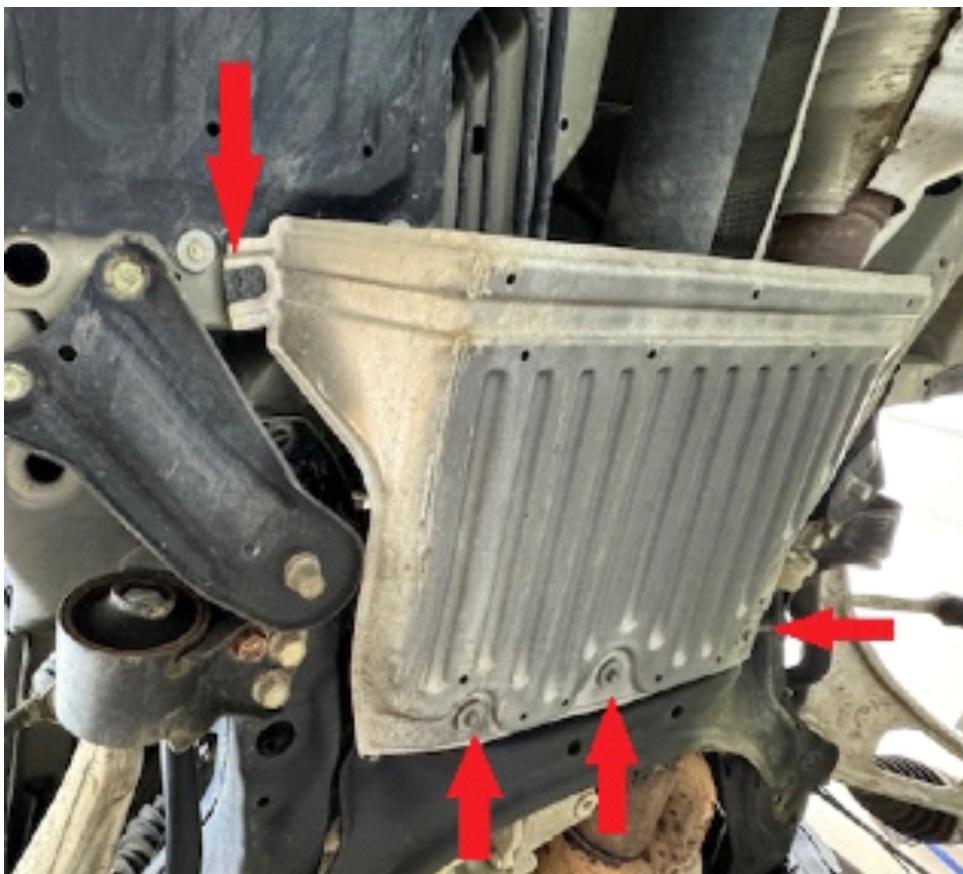
Step 3. lift vehicle and support with jack stands

Step 4. Support engine/transmission with floor jack or screw jack, taking care not to dent oil pan.

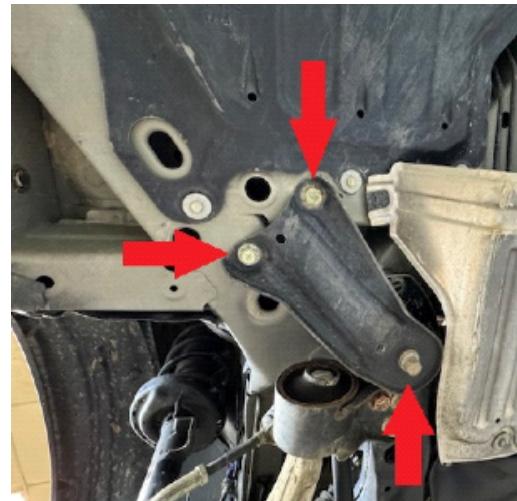
Step 5. Remove lower plastic splash guard under front valance to gain access to front main subframe bolts. Take care not to break plastic retainer clips. Save hardware for re-installation.



Step 6. Remove aluminum heat shield behind subframe (if applicable)



Step 7. Remove 8 M12 bolts holding subframe stiffener brackets to body.



Step 8. Loosen but do not remove M14 main subframe bolts allowing subframe to drop approximately one inch. Remove main OEM subframe bolts one at a time and slip 2.75x1 M14 spacers between subframe and body, installing M14x160 bolts as you go. This keeps the subframe square and aligned during installation. (see photo)



Step 9. Install 8 1.25x1 M12 steel spacers between subframe stiffener brackets and body using supplied M12x50 bolts. (see photo)



Step 10. Trim plastic splash shield as necessary to fit with lowered subframe, reinstall using original hardware.



Step 11. Re-install aluminum heat shield, drill mounting holes and bend as necessary to fit with lowered subframe. Re-attach using OEM hardware.



Step 12. Install 2 1x1 M10 steel spacers between engine mount and engine bracket, using supplied M10x90mm bolts.



Step 13. Under driver side dash, remove plastic dust cover on steering column to gain access to steering coupler.

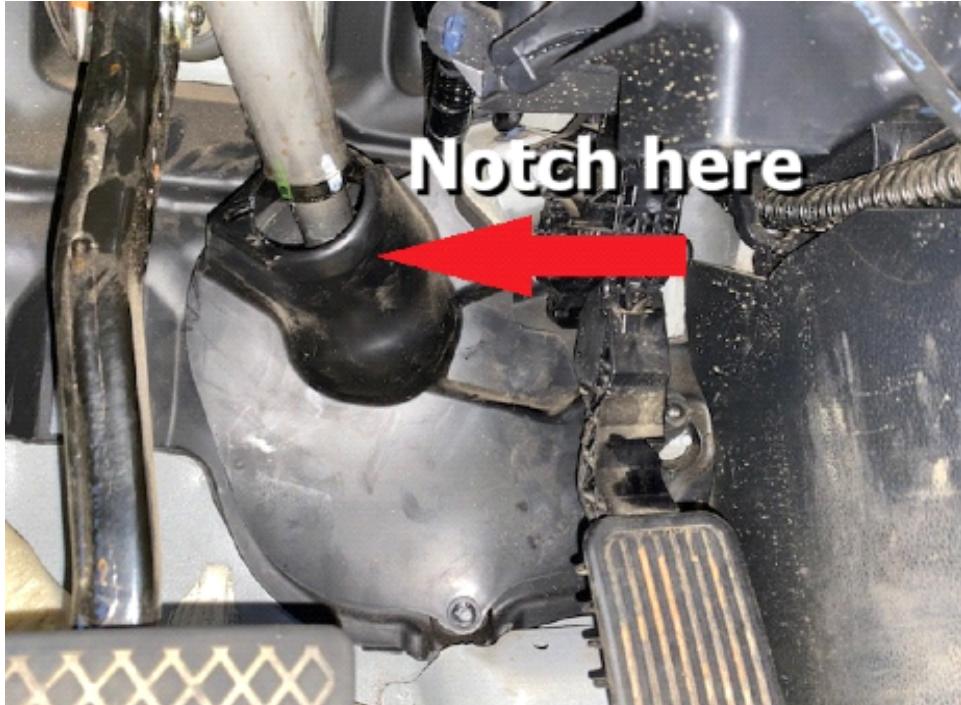
Step 14. Using a suitable metal cutting tool, cut a notch in the firewall where steering shaft passes through. Alternate method: Use screwdriver or round bar, bend sheet metal back about 1/4 inch around the coupler. Turn steering wheel to verify the coupler has proper clearance.



Step 15. Install foam weather seal between steering rack and body as shown.



Step 16. Re-install dust cover on steering column below interior dashboard. Trim as necessary to prevent plastic from contacting steering column.



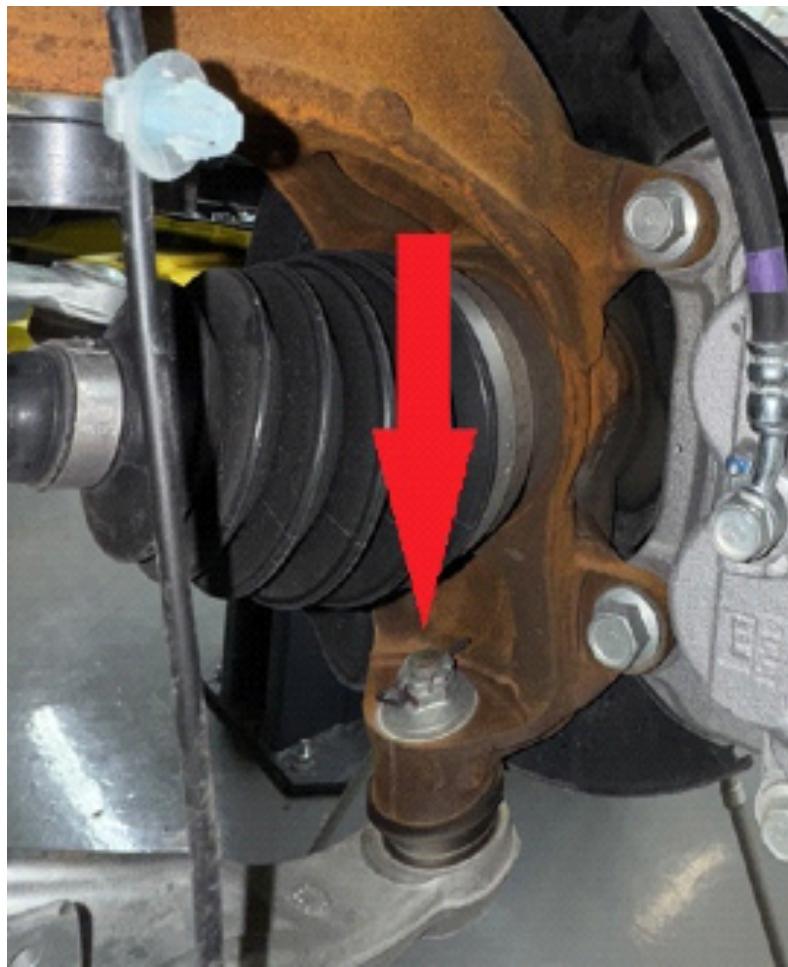
Step 17. Remove brake line and unclip ABS wiring from strut, remove wheel sensor.



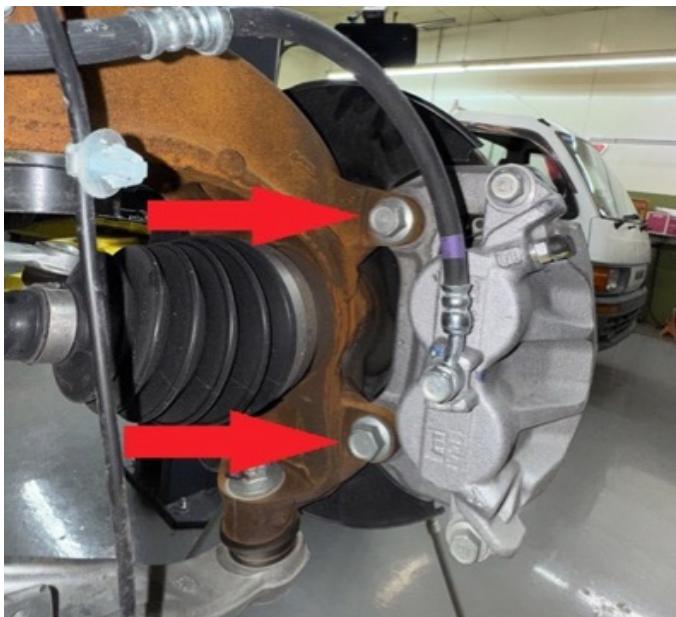
Step 18. Remove nut holding tie rod end to hub, strike knuckle with heavy hammer to dislodge tie rod end.



Step 19. Remove lower ball joint nut.



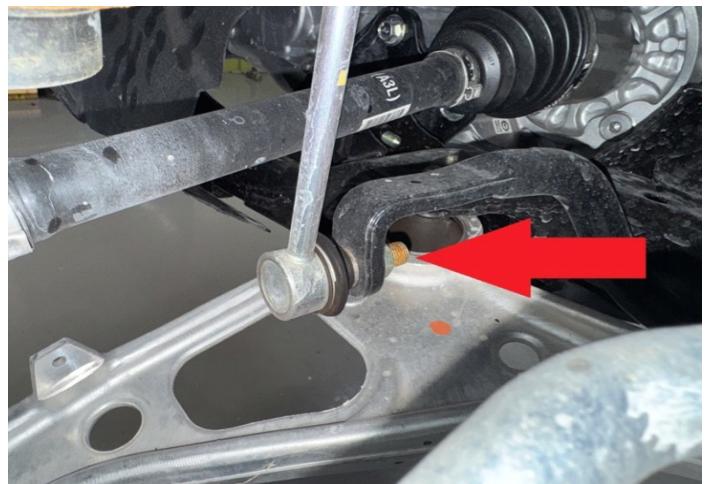
Step 20. Remove caliper (never loosen the brake line hoses) and use a length of wire to secure it out of the way.



Step 21. Remove brake rotor and axle nut.



Step 22. Remove and discard OEM sway bar link.



Step 23. Have a helper pry downward on the lower control arm while striking the hub with a large hammer, to separate the ball joint from the hub. This can take dozens of hits. Be careful not to hit the ball joint boot.



Step 24. Remove plastic access panels under hood to reach driver side front upper strut mount.



Step 25. Remove 14mm nutss, remove strut and hub assembly as one piece. Do not separate strut from hub.

Step 26. Attach spacers to struts using OEM hardware. **L** is for DRIVER SIDE, **R** is for PASSENGER SIDE!



Step 27. Mount spacer, strut, and hub assembly back into shock tower using M10 nuts provided in the kit. Torque nuts to 33 ft-lb.

Step 28. Have a helper pry down on the lower control arm while moving hub back into position. Slide the axle back into the hub and angle the lower ball joint so that it feeds into the hole in the bottom of the hub. Once the ball joint is oriented properly, release pressure on the pry bar. The ball joint should pop into place. This step may take several attempts!



Step 29. Reinstall axle nut, torque to 242 ft-lb.

Step 30. Install new sway bar end link using supplied hardware. Torque sway bar nuts to 56 ft-lb.



Step 31. Reinstall brake rotor and caliper. Tighten brake caliper bolts to 80 ft-lb

Step 32. Install BLB-Z on brake line mount, to relocate brake line brackets. (see photo)



Step 33. Repeat installation process for passenger side.

Step 34. Double check all bolts.

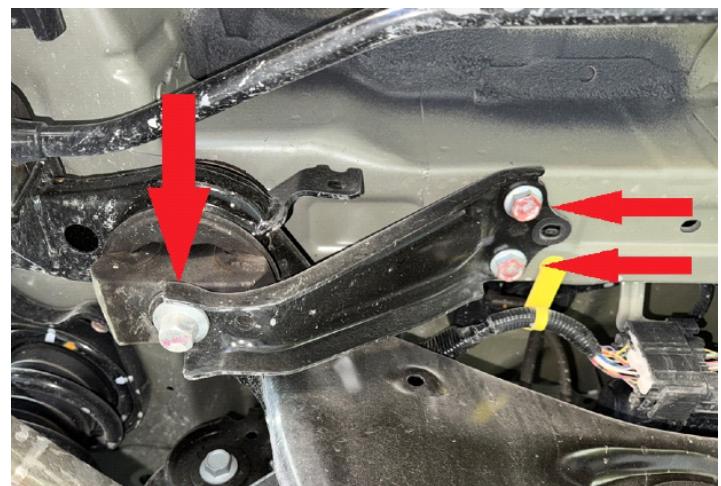
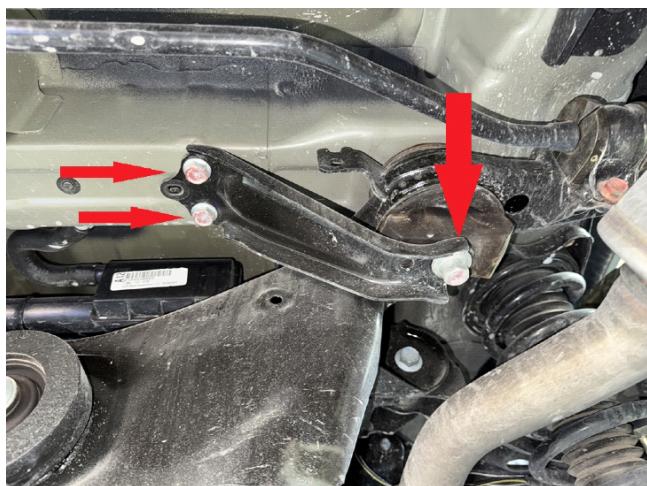
Step 35. Check brake dust shields for contact with rotors, bend back as necessary to prevent noise.

Rear installation:

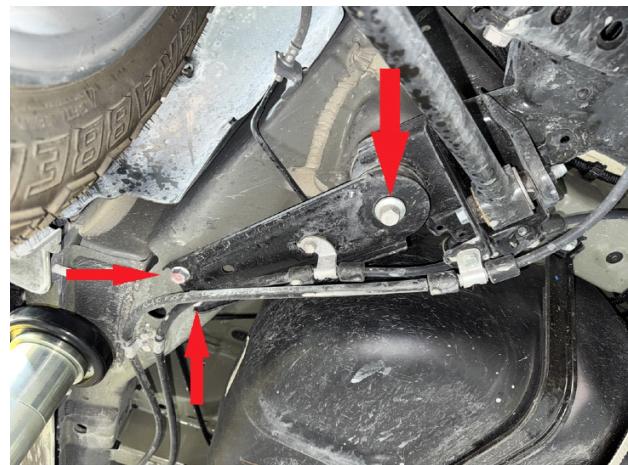
Step 1. Jack up vehicle and support with jack stands.

Step 2. Support rear subframe with floor jack.

Step 3. Remove 8 bolts holding rear subframe stiffener brackets to body.



Step 4. Loosen 4 main M14 bolts holding subframe to body, removing only the front 2. This allows the subframe to stay in alignment while lowering.



Step 5. Using a floor jack, lower rear subframe enough to install 2 of the 4 3.5x1" M14 spacers between subframe and body. Install M14x160 bolts. Be sure to pass bolts through stiffener brackets! (see photo)

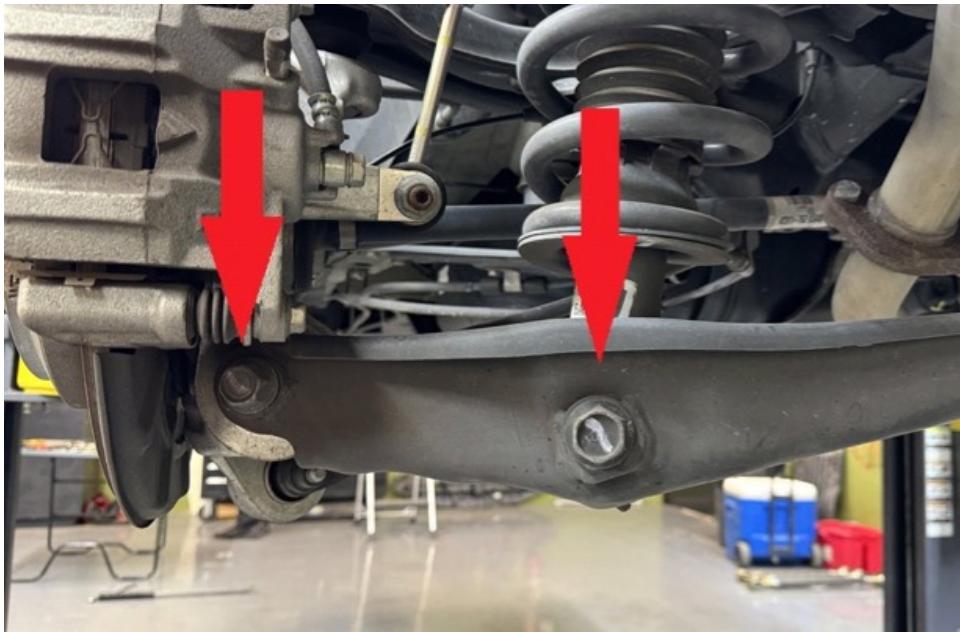


Step 6. Remove remaining rear subframe bolts one by one, installing remaining 3.5x1 spacers and installing M14x160 bolts.

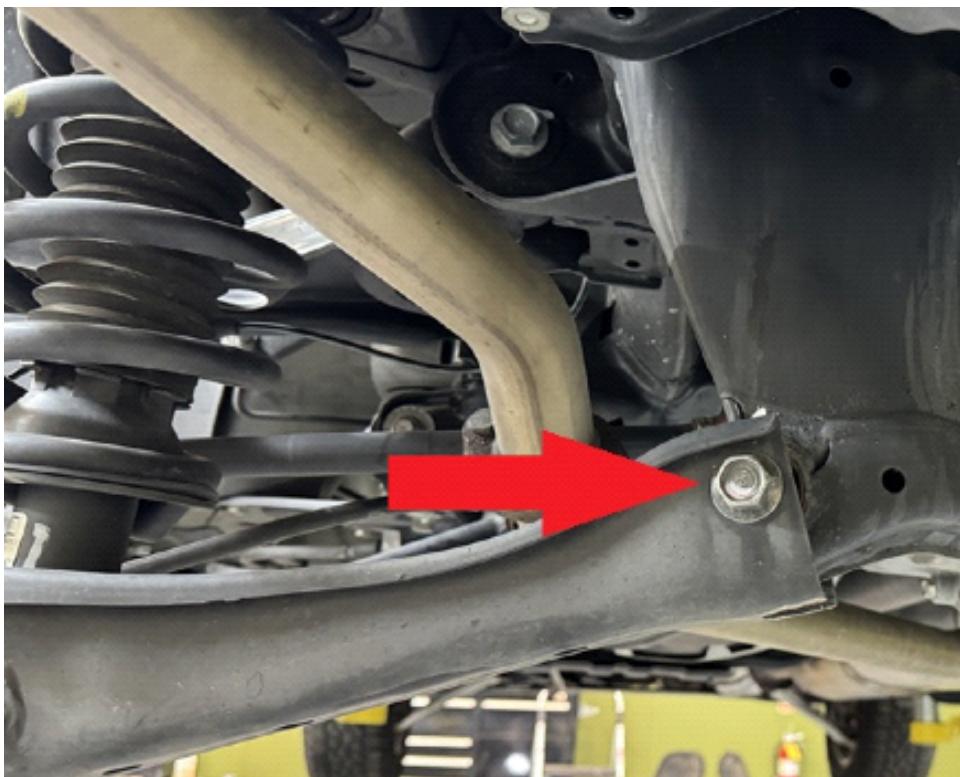
Step 7. Install 8 1.25x1 M12 aluminum spacers between subframe stiffener brackets and body, install 8 M12x50 bolts.

Step 8. Remove bolt holding driver side strut to lower control arm.

Step 9. Remove bolt holding lower control arm to wheel hub. (outermost bolt on lower control arm)



Step 10. Loosen but do not remove bolt holding lower control arm to subframe. (innermost bolt) to allow arm to move freely.



Step 11. Remove 3 bolts holding strut to body and remove strut.



Step 12. Place spacer on top of strut. **NOTE: If the bolt holes in the spacer do not seem to line up, flip it over.**



Step 13. Install strut/spacer combination using supplied hardware. Torque bolts to 44 ft-lb. **BE CAREFUL NOT TO CROSS THREAD THESE BOLTS!**

Step 14. Reinstall bolt holding strut to lower control arm.



Step 15. Using a floor jack, lift lower control arm until bolt holes line up.



Step 16. Reinstall bolt holding lower control arm to hub. Torque bolts to 135 ft-lb.

TIP: do not fully tighten control arm bolts until vehicle is resting on the ground (this will help prolong bushing life)

Step 17. Install BLB2 on rear brake line mount. Torque bolts to 25 ft-lb(see photo)



Step 18. Using pliers or an adjustable wrench, bend brake line bracket to create more slack in the line. (see photo)

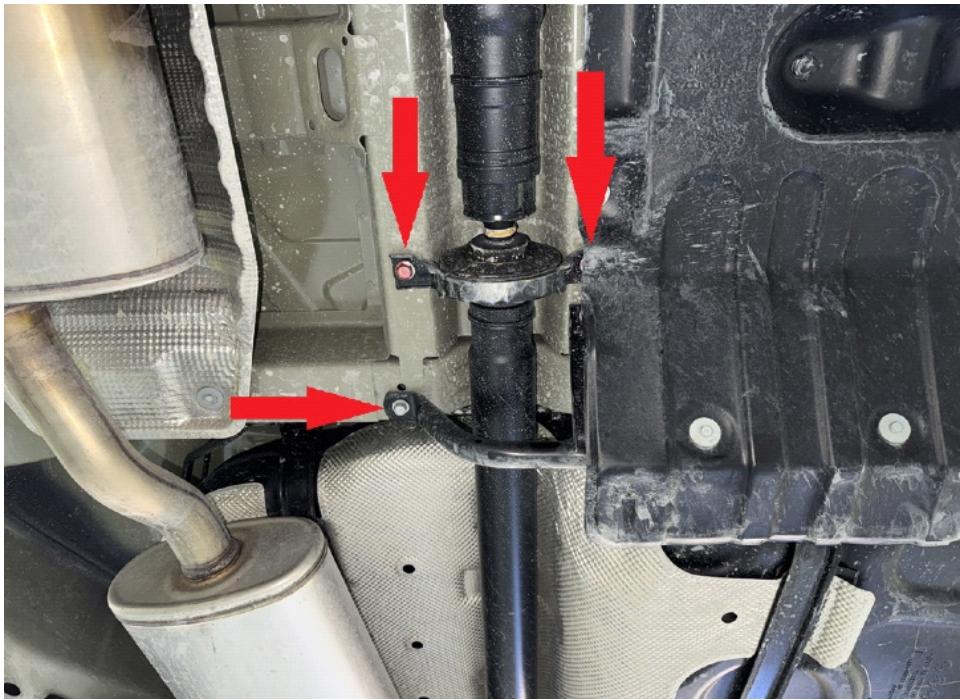


Step 19. Repeat installation process for passenger side.

Step 20. Remove 2 M10 bolts holding front drive shaft carrier bearing.

Step 21. Install 2 1x1 M10 spacers between carrier bearing and body, install 2 M10x50 bolts.

Step 22. Repeat for rear drive shaft carrier bearing.



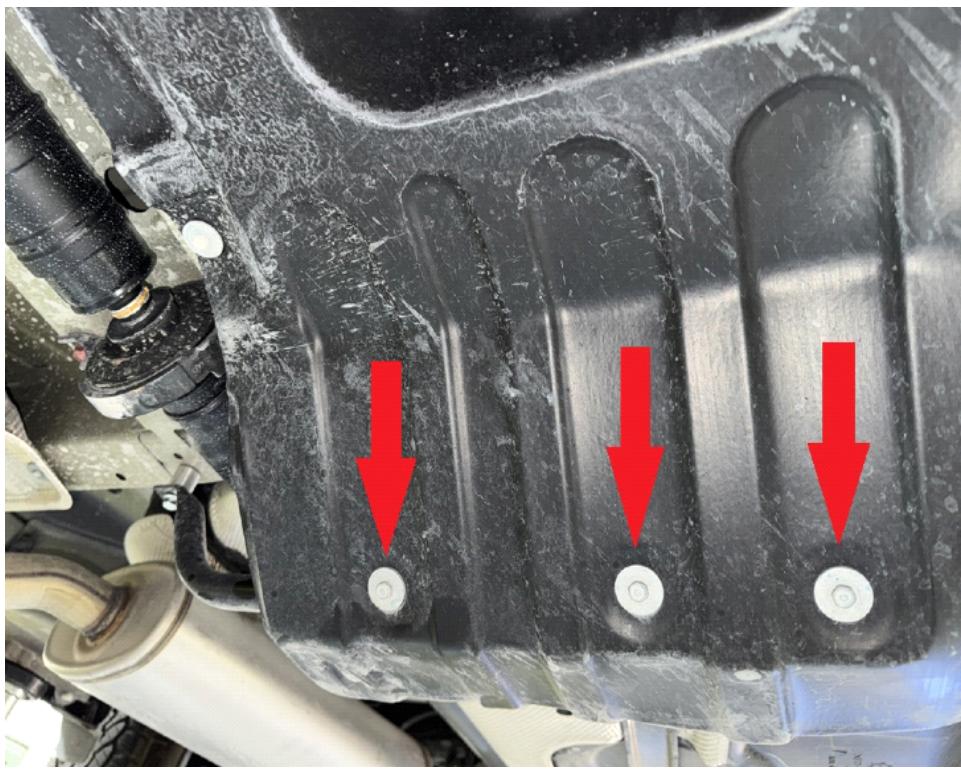
Step 23. Remove 2 M8 bolts holding driveshaft protector loop (U-shaped strap)



Step 24. Install 2 .75x1 M8 spacers between protector loop and body, install 2 M8x40 bolts.



Step 25. Loosen the 3 10mm bolts holding plastic undertray to gas tank bar.



Step 26. Remove bolts holding gas tank bar to body, install 0.75x1 M8 spacers between gas tank skid plate bar and body. Secure with 3 M8x40 bolts.



Step 27. Tighten 10mm bolts on plastic undertray.

Step 28. Remove OEM rubber hangers from both rear tailpipes. (Unless equipped with single rear tailpipe)

Step 29. Attach extended exhaust hanger to OEM hanger with M12x70 bolt and M12 nut. (see photo)



Step 30. Remove rubber hanger from exhaust mid-section under vehicle.

Step 31. Install new extended exhaust hanger as shown and adjust height as needed.



NOTE: It is not necessary to move or modify the exhaust hanger that is attached to the rear subframe.

Step 32. Reinstall wheels and lower vehicle.

Step 33. Double check all bolts.

Step 34. Reconnect negative battery terminal.

Step 35. Get a professional alignment.

Step 36. Find some trails!



Note: Installing a lift kit will change the suspension geometry and will require a 4-wheel alignment.

Warning: Failure to follow the procedures in these installation instructions may result in unsafe handling characteristics, damage to vehicle, or loss of control.

For tech support, please call 1-844- HRG LIFT (474-5438) from 8-4:30 PM Mon-Thurs 8-3:30 PM EST or email us 24/7 at support@hrgoffroad.com.

This product is intended for off-road use only!!