2017-2025 4.5 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 (30.9")
255/65/18 (31.1") ***MAY REQUIRE ADDITIONAL MODIFICATION TO MUD FLAPS AND/OR FENDER LINERS!!***

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 4" offset front lift spacers (1 left and 1 right)

2 3.0" or 3.5" rear lift spacers
6 M10 nuts (front lift spacers)
6 M10 nuts (rear spacers)
6 M10x25mm grade 10.9 bolts (rear spacers)
2 Replacement front sway bar links for lifted application
2 0.75x1.5 M8 spacers (driveshaft protector)
2 M8x60 bolts (driveshaft protector)
2 M10x120 bolts (engine dampener)
4 M10x70 bolts (driveshaft carrier bearings)
3 M8x60 bolts (gas tank bar)
4 M14x180 bolts (front subframe)
8 M12x70 bolts (front subframe brackets)
4 M14x180 bolts (rear subframe)
4 M12x70 bolts (rear subframe brackets)
3 0.75x1.5 M8 spacers (gas tank bar)
4 1x1.5 M10 spacers (driveshaft carrier bearings)
2 1x2 M10 spacers (engine mount)
4 2.75x2 M14 spacers (front subframe)
4 3.5x2 M14 Spacers (rear subframe)
16 1.25x2 M12 spacers (front and rear subframe brackets)
2 M12x70 bolts (exhaust)
2 M12 nuts (exhaust)
3 extended exhaust hangers
2 1" foam seals
2 Front brake line brackets
2 Rear brake line brackets

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

Note to installer: Some bolts removed to install this lift kit will be replaced with longer bolts. Some OEM hardware will be reused. **Installing this kit requires removal of the splash shield under the front bumper, trimming the front fender liners, and notching the sheet metal surrounding steering coupler to allow clearance.**

Approximate installation time: 6 hours.

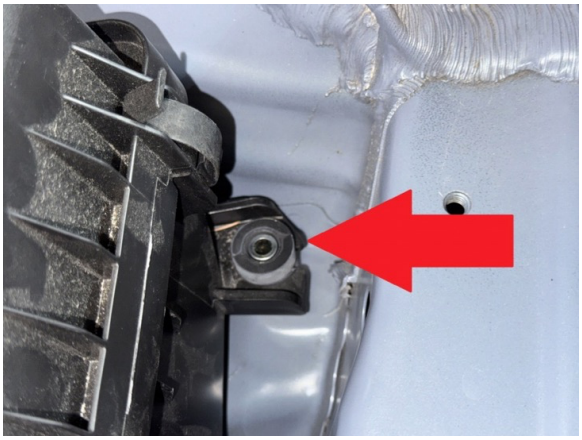
Skill level: Difficult

Video Link:

Front installation:

Step 1. Remove 2 M10 bolts holding passenger side engine mount to engine bracket.

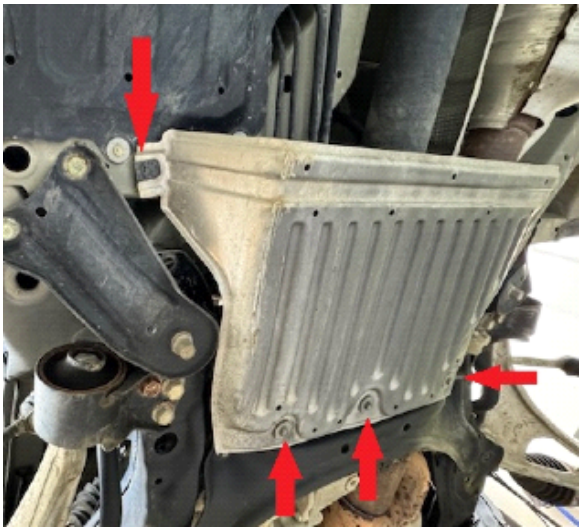
Step 2. Remove bolt on rear outer corner of air box (see photo)



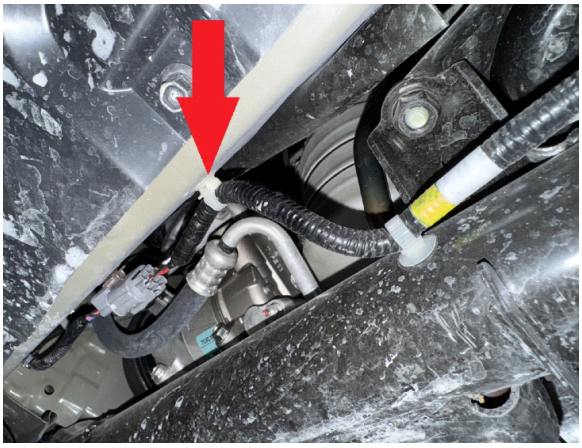
Step 3. Lift vehicle and support with jack stands.

Step 4. Remove clips holding front part of plastic fender liners, and lower plastic splash guard under front bumper to gain access to front main subframe bolts. Take care not to break plastic retainer clips. Save hardware.

Step 5. Remove plastic clips and 10mm bolts holding aluminum heat shield behind subframe. Save hardware.



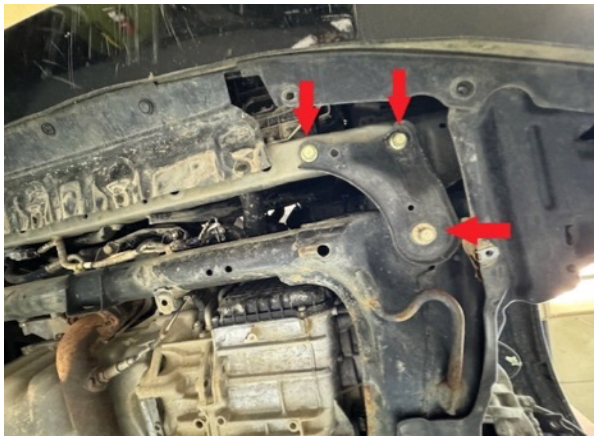
Step 6. Unclip wiring harness from radiator support as shown in photo:

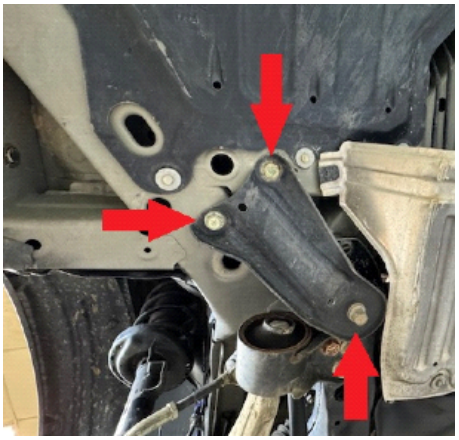


Step 7. Support subframe using a screw jacks or floor jack.

Step 8. Remove 8 M12 bolts holding main subframe bolt retainer brackets to body. (see photo below)

Step 9. Loosen but do not remove ONLY 2 of the 4 main subframe bolts and temporarily replace with the longer M14x180 bolts included in the kit.

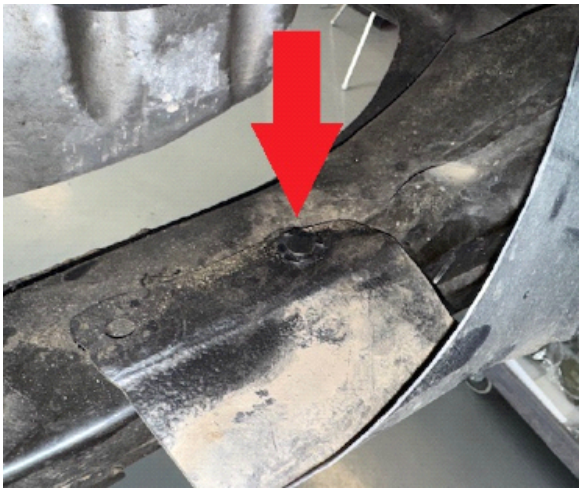




Step 10. Remove the 2 remaining OEM subframe bolts one at a time, lower subframe carefully about 2 inches with floor jack or screw jacks and slip 2.75x2 M14 spacers between subframe and body, installing M14x180 bolts as you go. (This keeps the subframe square and aligned during installation.)

Step 11. Install 8 1.25x2 M12 spacers between main subframe bolt retainer brackets and body using supplied M12x70 bolts. (see photo)

Step 12. Trim and relocate plastic splash shield as necessary to fit with lowered subframe, reinstall clips on top of subframe as shown using original hardware.



Step 13. Re-install aluminum heat shield, drill new holes and bend as necessary to fit with lowered subframe. Re-attach using OEM hardware.

Step 14. Using a body saw, cut a notch in the hole where the steering column passes through (if necessary) to allow clearance for steering shaft.

ALTERNATE METHOD: Using a 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.

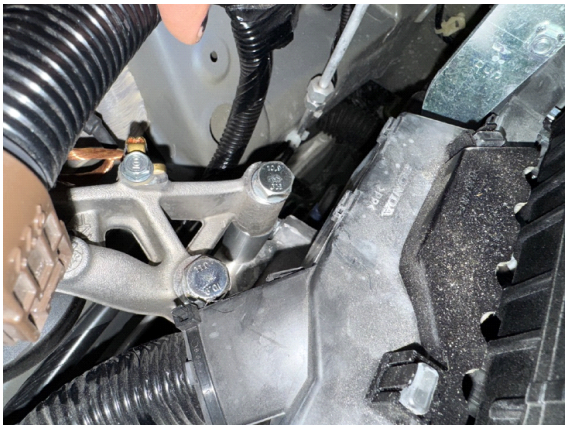
Step 15. Install foam weather seals between steering rack and body.

Step 16. Under driver side dash, remove plastic dust cover on steering column. Trim away plastic as necessary to eliminate contact with steering shaft.

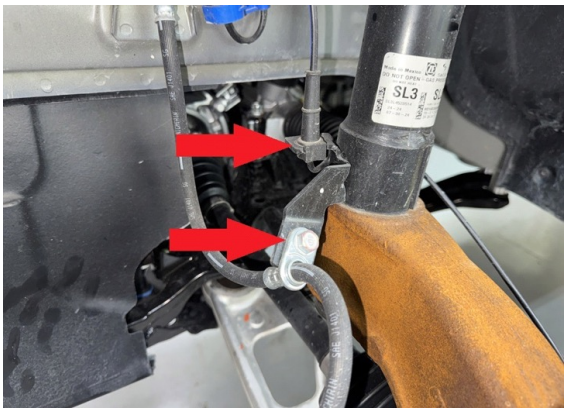
Step 17. Re-install dust cover on steering column below interior dashboard. Double check full rotation of steering wheel to check for any noises or rubbing. Trim as necessary.

TIP: If necessary, loosen the bolts in the steering column couplers and re-tighten them to eliminate binding.

Step 18. Lower vehicle back down and Install 2 1x2 M10 steel spacers between engine mount and engine bracket, using supplied M10x120mm bolts.

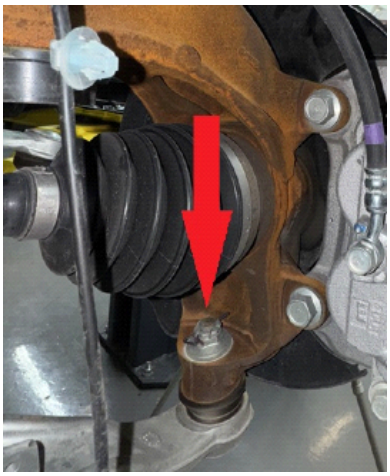


Step 19. Remove brake line and unclip ABS wiring from strut, remove wheel sensor.

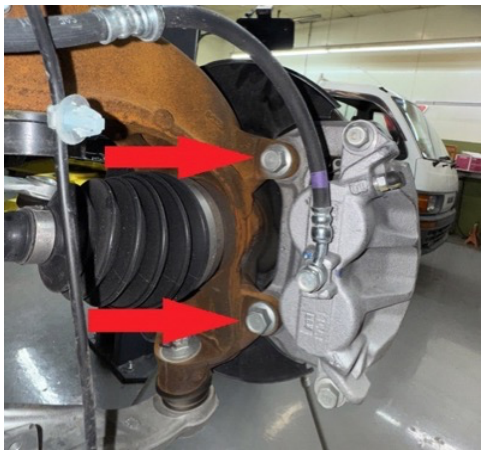


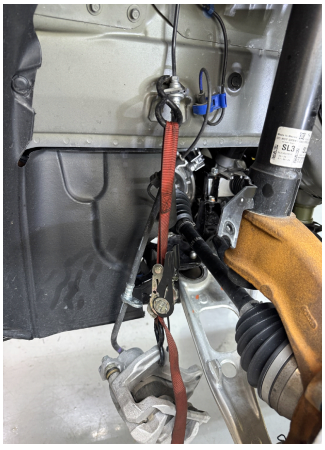
Step 20. Remove nut holding tie rod end to hub, strike knuckle with heavy hammer to dislodge tie rod end.

Step 21. Remove lower ball joint nut.

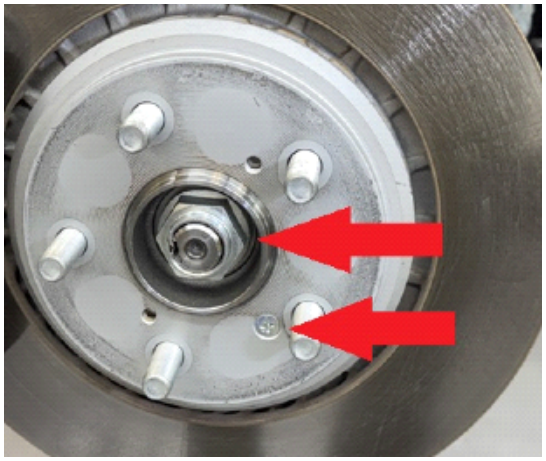


Step 22. Remove caliper (never loosen the brake line hoses) and use a length of wire to secure it out of the way.

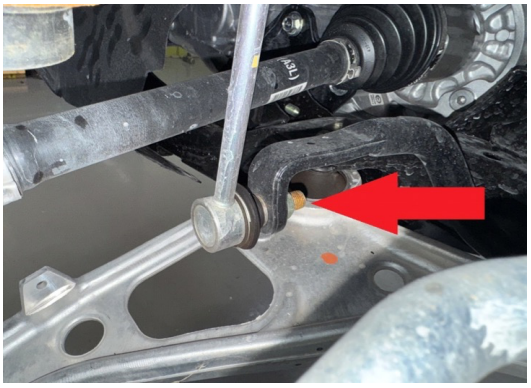




Step 23. Remove brake rotor and axle nut.



Step 24. Remove and discard OEM sway bar link.



Step 25. 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 26. Remove plastic access panels under hood to reach driver side front upper strut mount.

Step 27. Remove 14mm nuts, remove strut and hub assembly as one piece. Do not separate strut from hub.

Step 28. Attach spacers to struts using OEM hardware. **L is for DRIVER SIDE, R is for PASSENGER SIDE!**

Step 29. Mount spacer, strut, and hub assembly back into shock tower using M10 nuts provided in the kit. Torque nuts to 33 ft-lb.

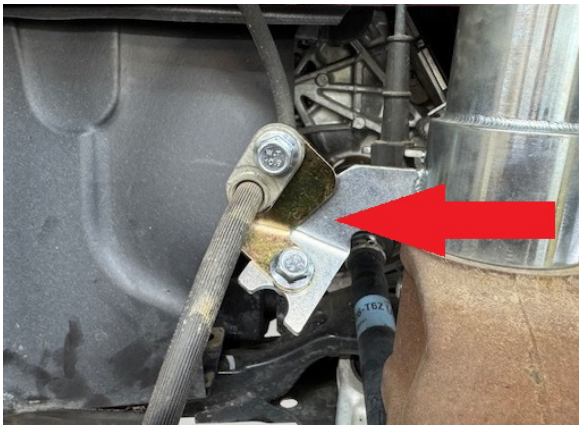
Step 30. Have a helper pry down on the lower control arm while moving hub back into position. Slide the axle back into the hub and angle the lower ball joint so that it feeds into the hole in the bottom of the hub. Once the ball joint is oriented properly, release pressure on the pry bar. The ball joint should pop into place. This step may take several attempts!

Step 31. Reinstall axle nut, torque to 242 ft-lb.

Step 32. Install new sway bar end link using supplied hardware. Torque sway bar nuts to 56 ft-lb.

Step 33. Reinstall brake rotor and caliper. Tighten brake caliper bolts to 80 ft-lb

Step 34. Install brake line relocation bracket on brake line mount. (see photo)



Step 35. Reinstall wheel sensor.

Step 36. Repeat installation process for passenger side.

Step 37. Double check all nuts and bolts.

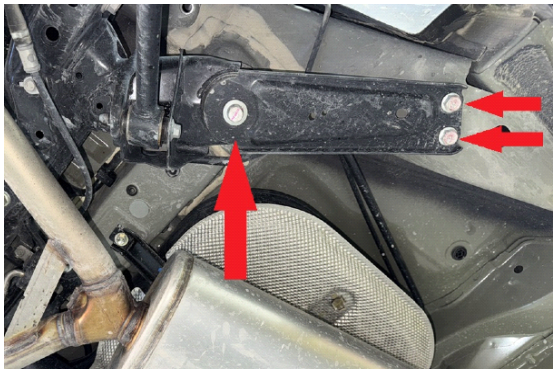
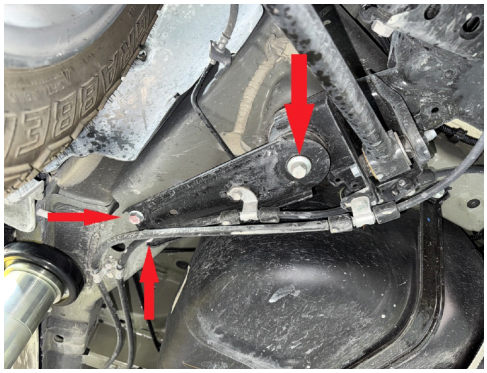
Step 38. Check brake dust shields for contact with rotors, bend back as necessary to prevent noise.

Rear installation:

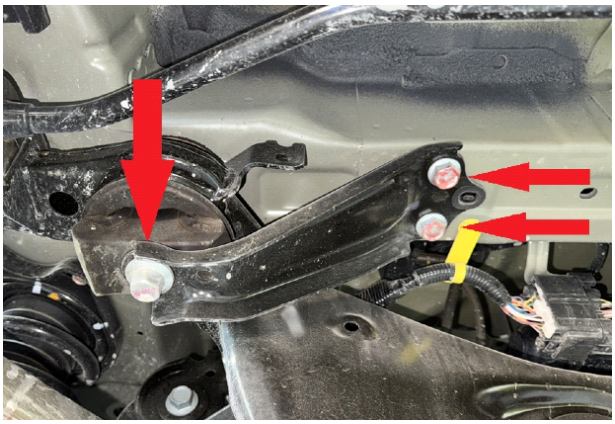
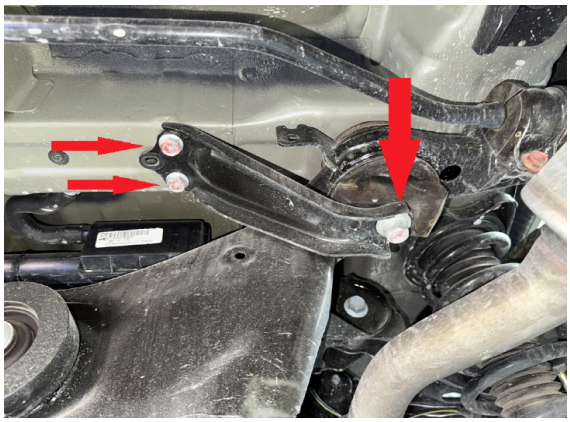
Step 1. Lift vehicle and support with jack stands.

Step 2. Support rear subframe with floor jack.

Step 3. Remove eight bolts holding rear subframe support brackets to body.

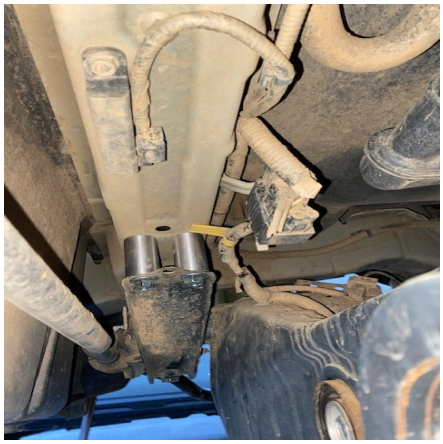
Step 4. Loosen four main M14 bolts holding subframe to body, removing only the front 2. Temporarily install 2 M14x180 bolts in their place. This step will keep the subframe in alignment while being lowered.

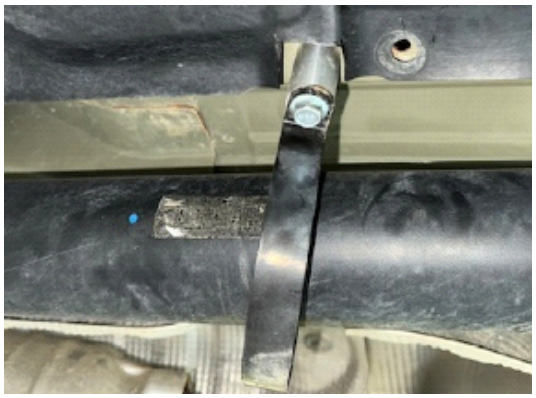
Step 5. Using a floor jack or pole jack, lower the subframe enough to install two of the 4 3.5x2" M14 spacers between subframe and body. Install M14x180 bolts. Be sure to pass bolts through support brackets! (see photos)

Step 6. Remove the remaining 2 rear subframe bolts one by one, installing remaining 3.5x2" M14 spacers and M14x180 bolts.

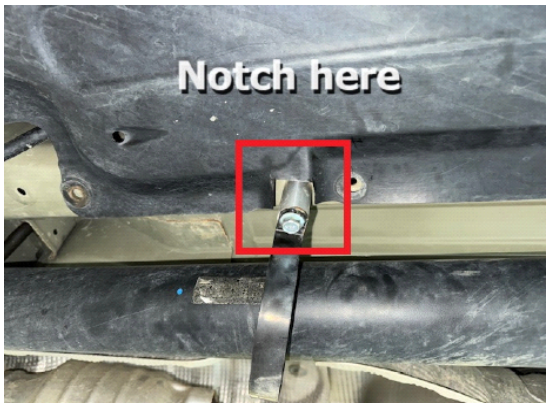
Step 7. Install 8 1.25x2 M12 spacers between support brackets and body, install 8 M12x70 bolts.



Step 8. Remove bolts holding driveshaft protector, place 0.75x1 M8 spacers between protector and body. (see photo)



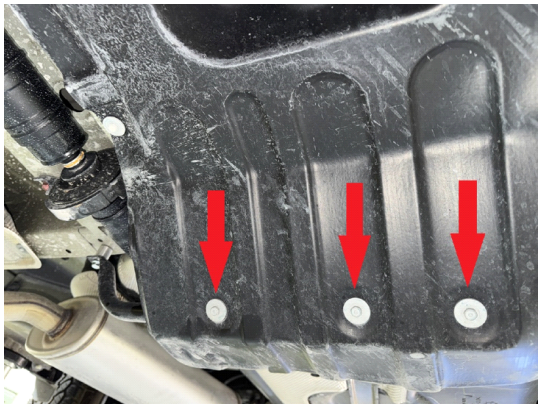
Step 9. Using a plastic cutting tool, notch plastic as shown:



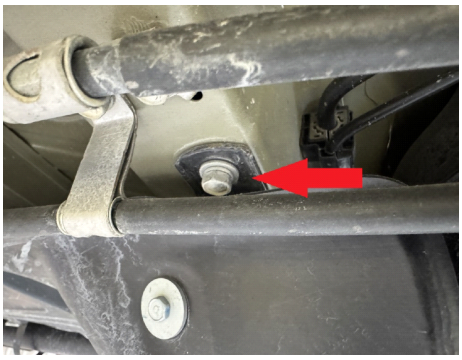
Step 10. Remove 2 M10 bolts holding driveshaft carrier bearing.

Step 11. Install 2 1x1 M10 spacers between carrier bearing and body, install 2 M10x50 bolts. (repeat process for second carrier bearing)

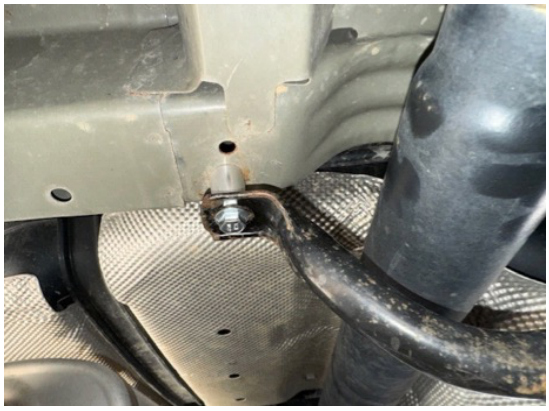
Step 12. Remove 10mm bolts holding plastic under tray to gas tank bar (save hardware).



Step 13. Remove 3 12mm bolts holding gas tank bar to body.



Step 14. Place 3 0.75x1.5 M8 spacers between gas tank bar and body, install 3 M8x60 bolts.



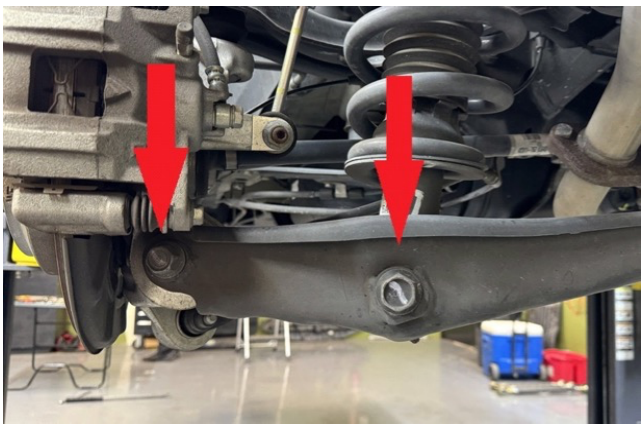
Step 15. Remove rear tailpipe hanger from tailpipes (if applicable).

Step 16. Attach extended exhaust hangers to OEM hangers with M12x70 bolt, fender washers and M12 nut. (see photo)

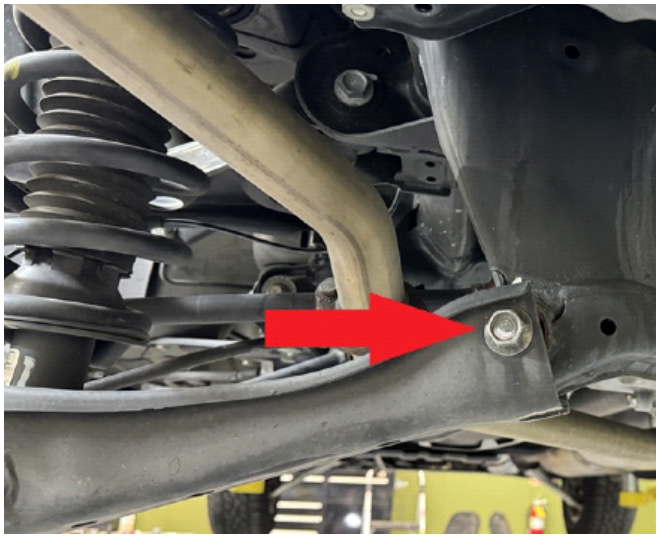
Step 17. Remove wheels.

Step 18. Remove bolt holding driver side rear strut to lower control arm.

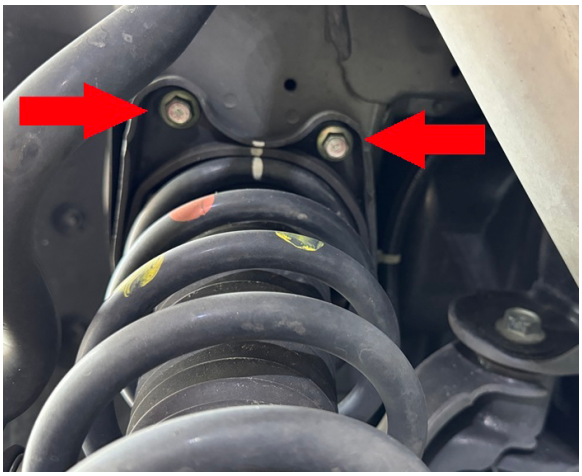
Step 19. Remove bolt holding lower control arm to wheel hub. (outermost bolt on lower control arm)



Step 20. Loosen but do not remove bolt holding lower control arm to subframe. (innermost bolt) to allow arm to move freely.

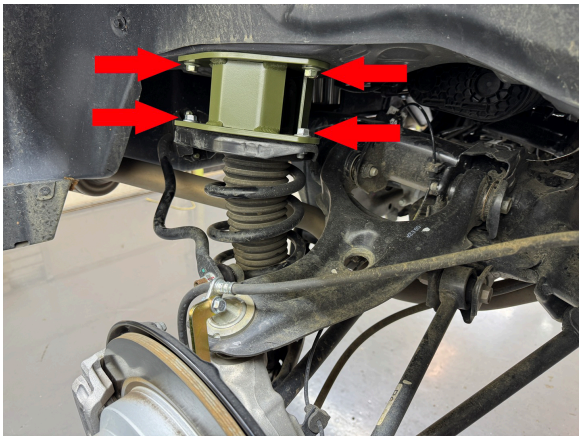


Step 21. Remove three bolts holding strut to body and remove strut.

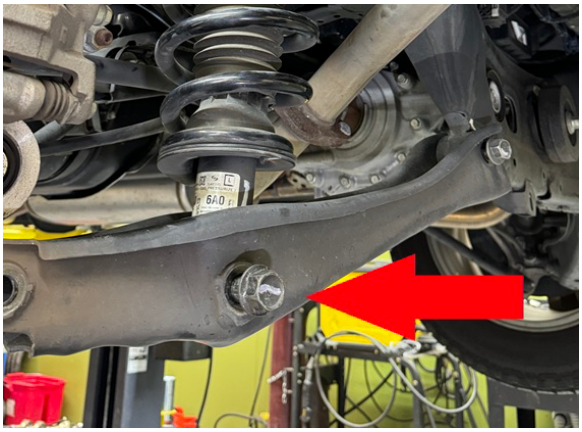


Step 22. Place spacer on top of strut.

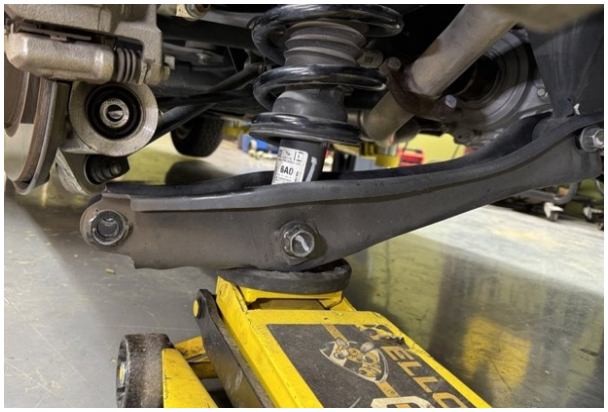
Step 23. Install strut/spacer combination using supplied hardware. Torque bolts to 44 ft-lb. BE CAREFUL NOT TO CROSS THREAD THESE BOLTS!



Step 24. Reinstall bolt holding strut to lower control arm.



Step 25. Using a floor jack, lift the lower control arm until bolt holes line up.



Step 26. Reinstall bolt holding lower control arm to hub. Torque bolts to 135 ft-lb.

Step 27. Install rear brake line relocation bracket on rear brake line mount. (see photo)

Step 28. Using a crescent wrench, reposition the rear brake line upper bracket in a way that provides additional slack on the brake line.

Step 29. Reinstall wheels and lower vehicle.

Step 30. Double check all bolts.

Step 31. Get a professional alignment, using OEM specs.

Step 32. 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 EST Mon-Thu 8-3:30 PM Fri or email us 24/7 at support@hrgoffroad.com.

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