



2010-2014 1" (25mm) subframe kit installation guide

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.

Professional installation is recommended

Included in the kit:

- 4 1.25x1 M12 spacers (front subframe)
- 4 M12x60 bolts (front subframe)
- 2 M14x160 bolts (front subframe)
- 2 1.25x1 M14 spacers (front subframe)
- 4 1.25x1 M12 spacers (front subframe)
- 6 1.25x1 M14 spacers (front lower control arm mount)
- 2 M14x150 bolts (front lower control arm mount)
- 4 M14x50 bolts (front lower control arm mount)
- 6 1x1 M10 spacers (transmission crossmember)
- 6 M10x50 bolts (transmission crossmember)
- 4 M14x200 bolts (rear subframe)
- 4 2.75x2 M14 spacers (rear subframe)
- 4 M10x70 bolts (rear subframe)
- 4 1x2 M10 spacers (rear subframe brackets)
- 2 0.75x1 M8 spacers (parking brake cable)
- 2 M8x40 bolts (parking brake cable)

- 2 front splash shield brackets (BLB1)
- 4 extended muffler hangers
- 1 steering shaft extension

Tools required:

Floor Jack, lug wrench, metric socket set up to 21mm, metric wrench set up to 18mm, common pliers, torque wrench, paint pen.

Approximate installation time: 4-6 hours

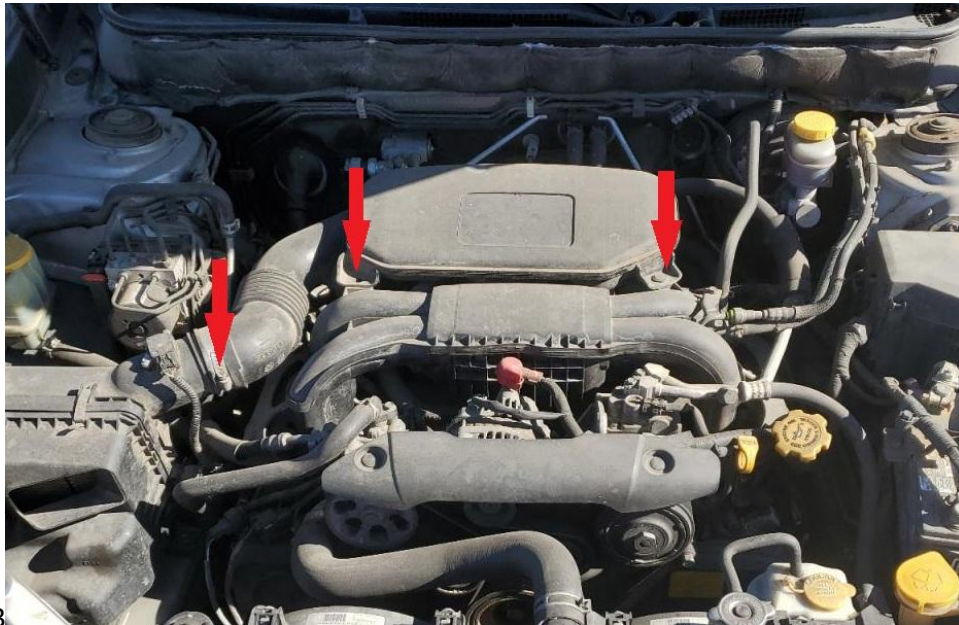
Skill level: Moderate

Front installation:

TIP: installation is made easier by disassembling suspension on both sides before installing spacers. Disconnecting the sway bars during the installation may be necessary.

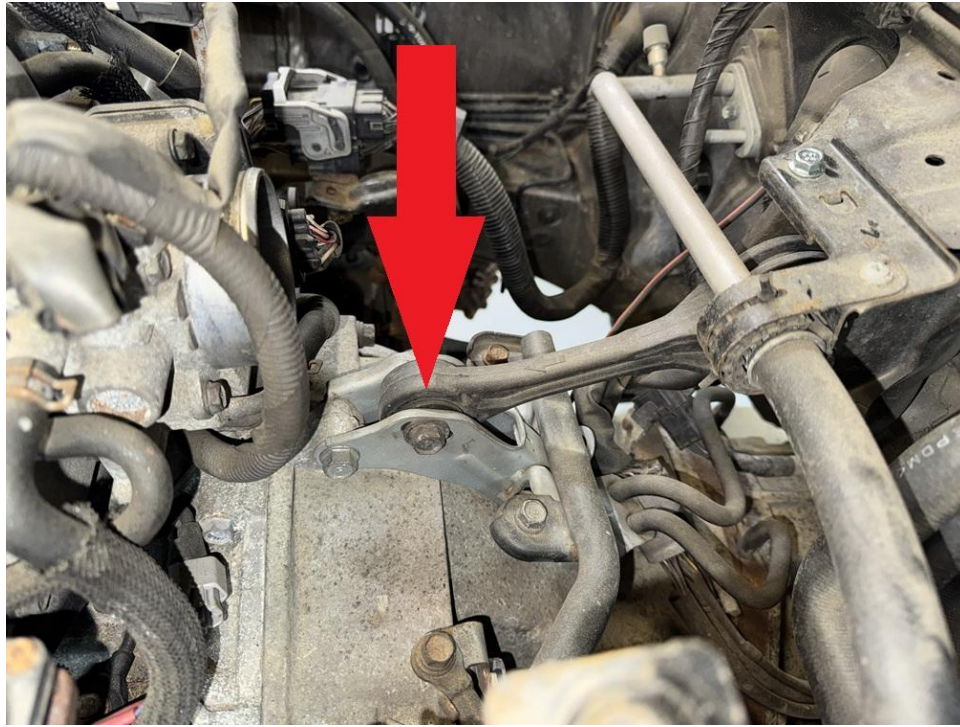
Step 1. Lock steering wheel to prevent rotation until installation is complete.

Step 2. Remove plastic clips and hose clamp from air intake as shown.



Step 3. Remove emissions hoses from air intake, remove air intake.

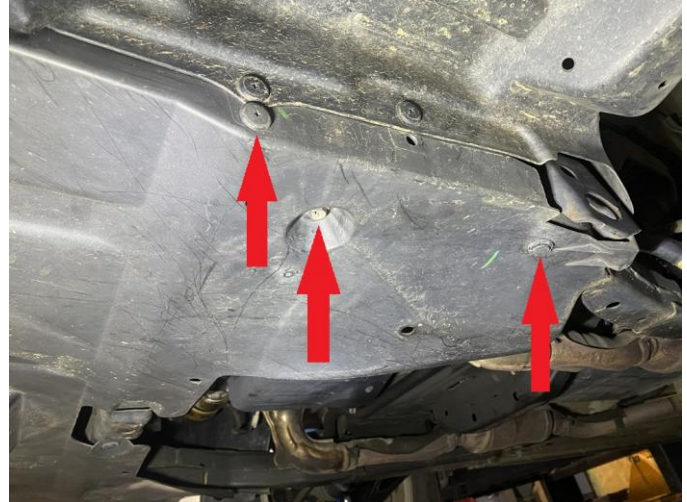
Step 4. Remove bolt on engine “dog bone” mount as shown:



Step 5. Lift vehicle and support with jack stands.

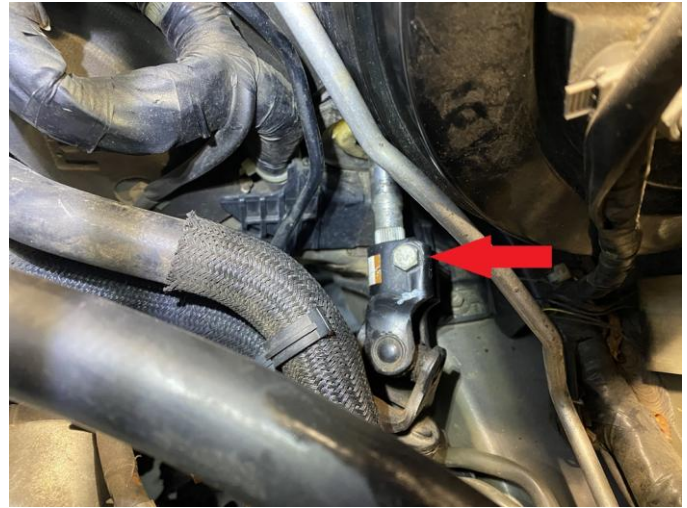
Step 6. Remove front wheels.

Step 7. Remove plastic splash shield under engine.

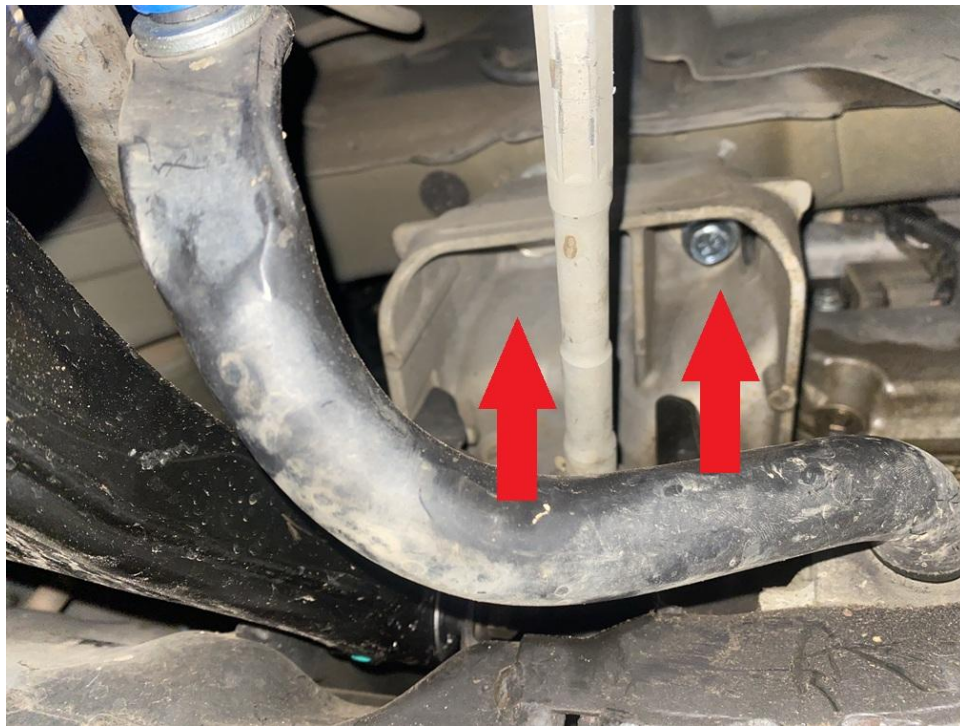


Step 8. Support engine/transmission with floor jack or screw jack. Take care not to dent oil pan.

Step 9. Remove bolt holding steering universal coupler to steering rack. Loosen bolt holding steering universal coupler to steering column. Coupler will detach from steering rack when subframe is lowered in a later step.

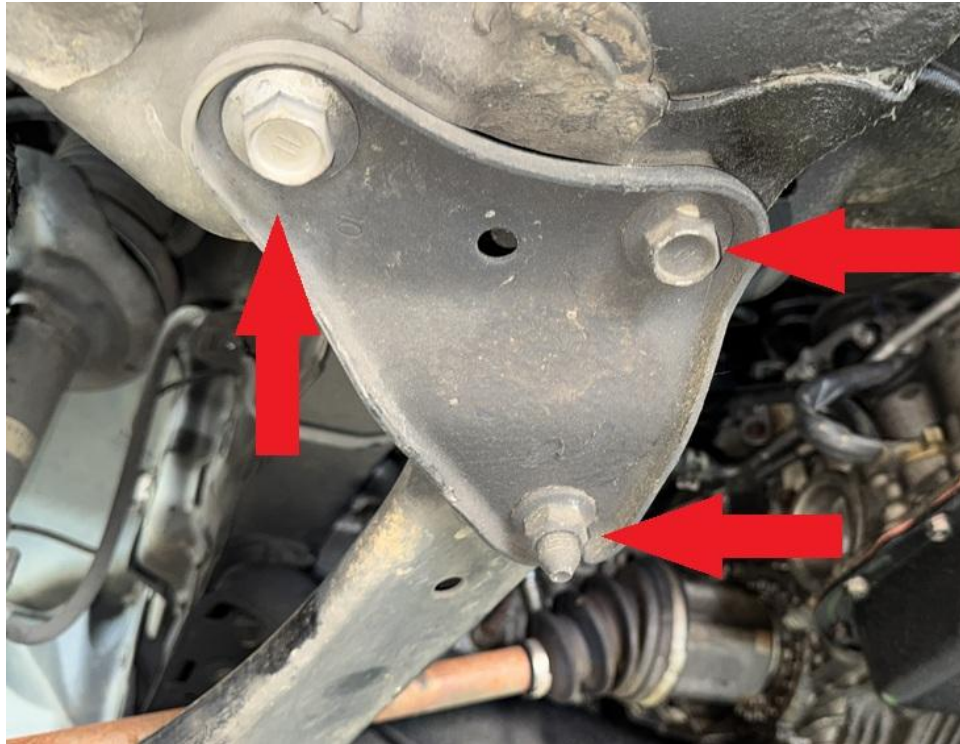


Step 10. Remove 4 17mm bolts holding engine cradle to frame rails one at a time, temporarily installing M12x60 bolts as you go. Do not tighten bolts at this time.



Step 11. Remove 2 front most bolts in front subframe. Temporarily install 2 M14x160 bolts.

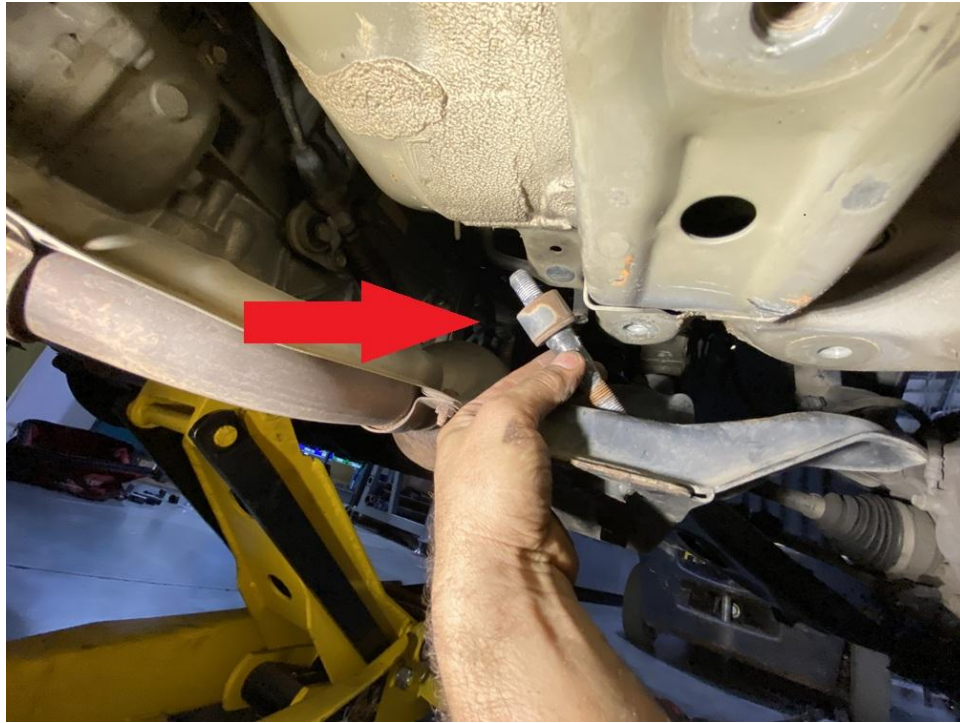
Step 11. Remove 2 bolts and 1 nut on driver side front lower control arm.



Step 12. Remove stud as shown. Save OEM steel spacer.



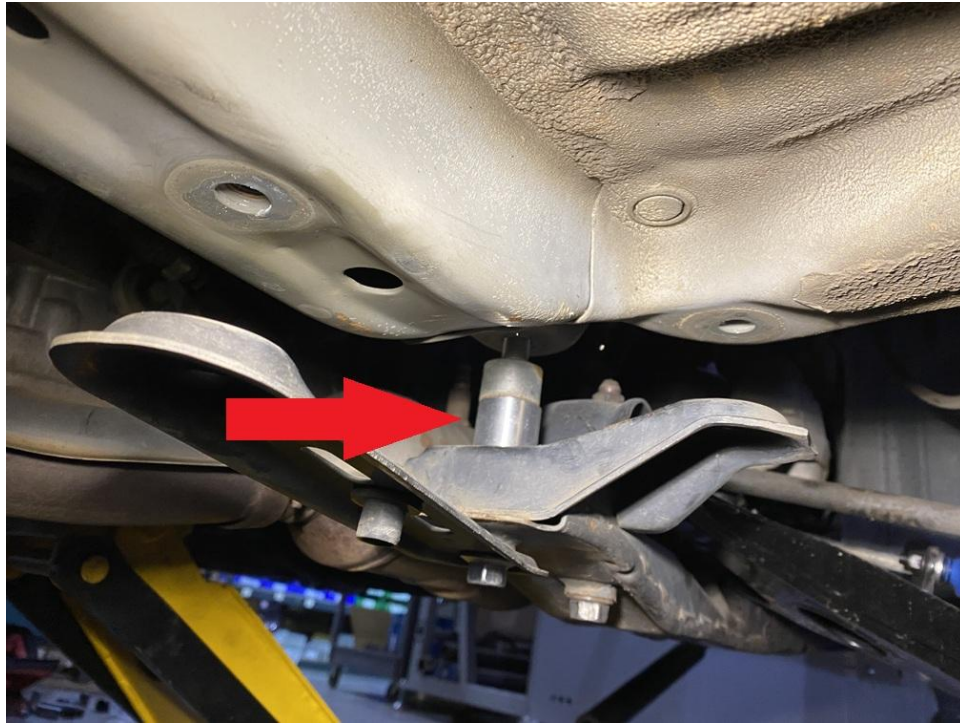
Step 13. Carefully lower front subframe as needed to pull stud out of its location. ALTERNATIVE METHOD: Cut the stud in half to make it easier to remove.



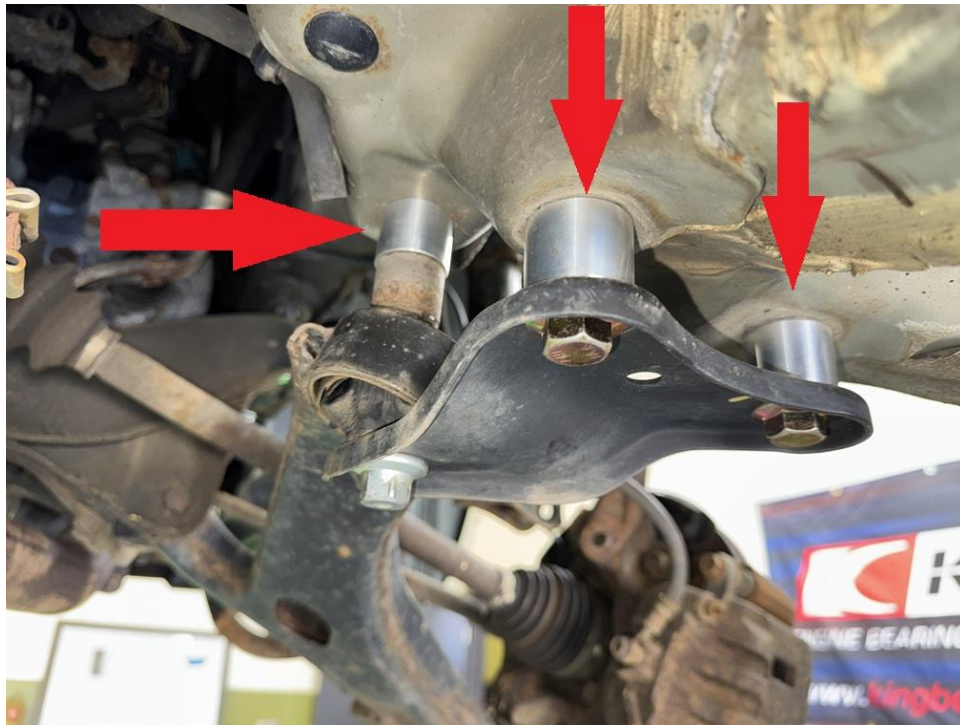
Step 14. Install steering extension between steering rack and steering coupler as shown. Do not tighten bolt until all subframe bolts are tightened.



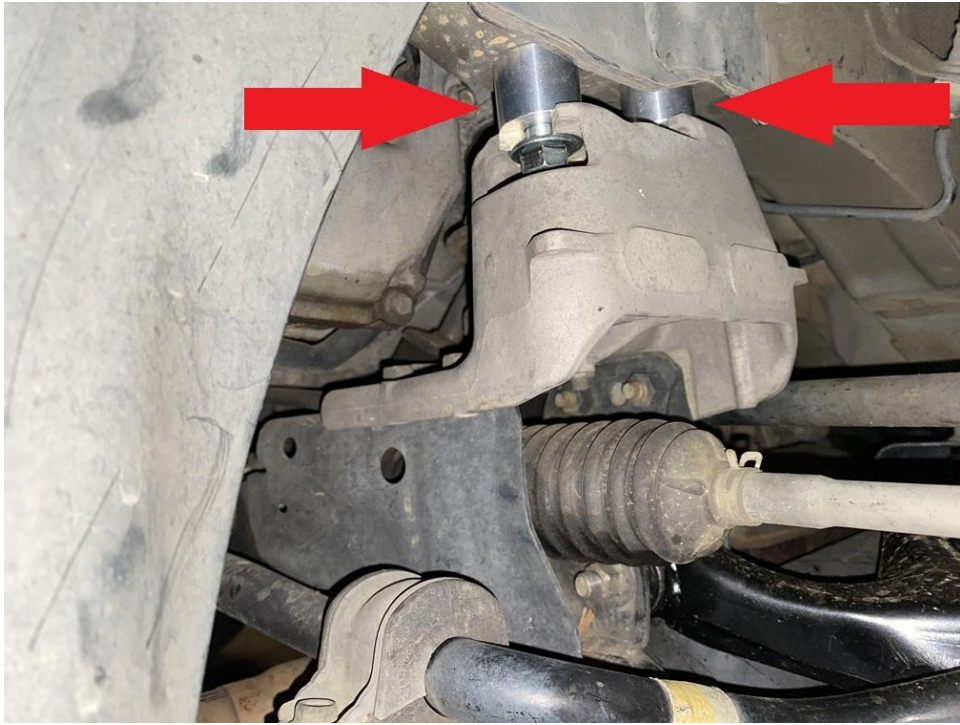
Step 15. Place 1.25x1 M14 spacer between front lower control arm mount and chassis. Install M14x150 bolt.



Step 16. Place 2 1.25x1 M14 spacers between front lower control arm brace and chassis. Install 2 M14x50 bolts.

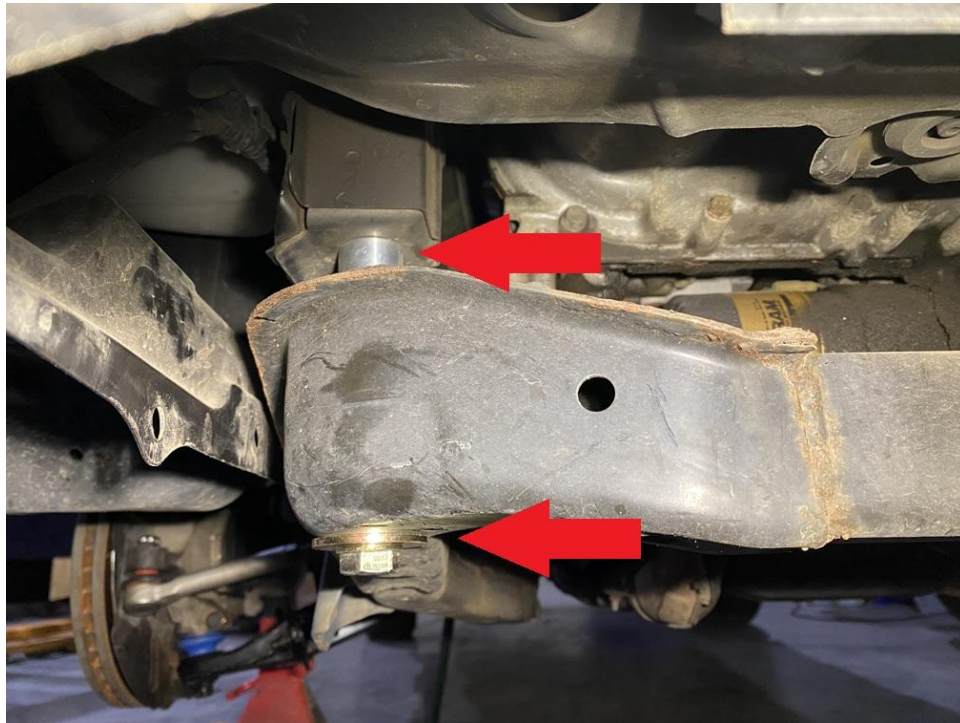


Step 17. Remove M12x60 bolts in engine cradle and place 2 1.25x1 spacers between cradle and frame rails. Permanently install M12x60 bolts. Repeat for opposite side.



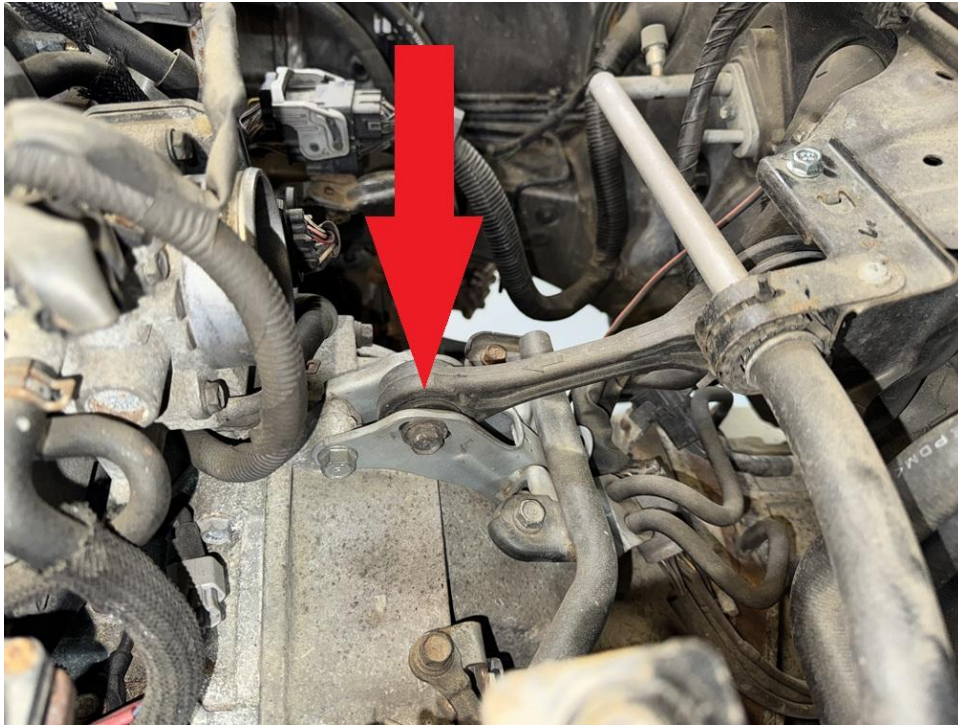
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Step 18. Remove M14x160 bolts that were previously installed in the front of the subframe and place 2 1.25x1 M14 spacers between subframe and chassis. Permanently install M14x160 bolts.



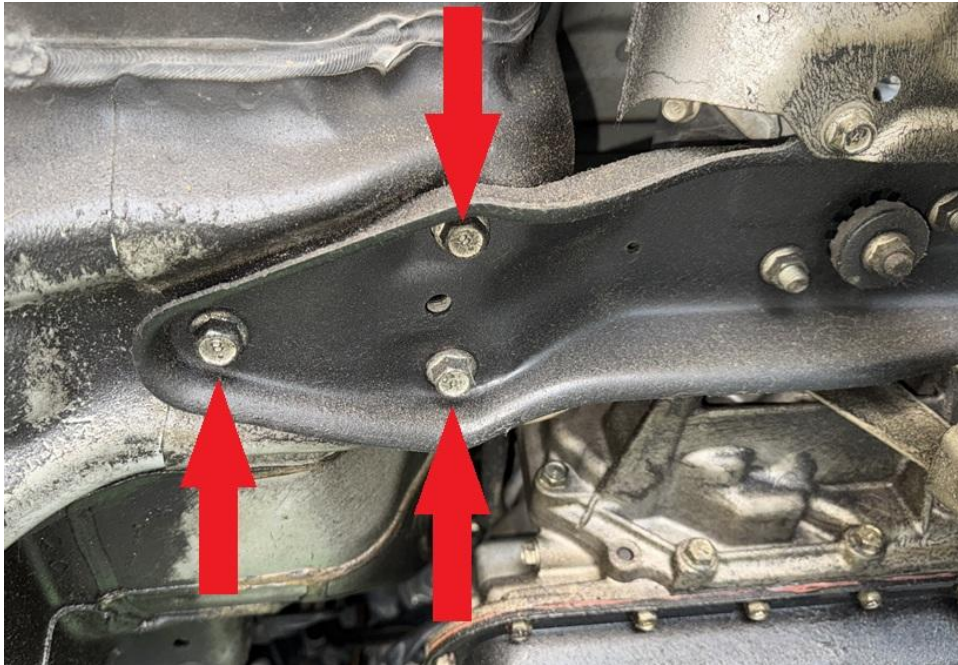
Step 19. Tighten bolts on steering extension and coupler.

Step 20. Tighten pitch mount bolts.



Step 21. Support transmission crossmember with a floor jack or screw jack.

Step 22. Remove bolts holding transmission crossmember to body.



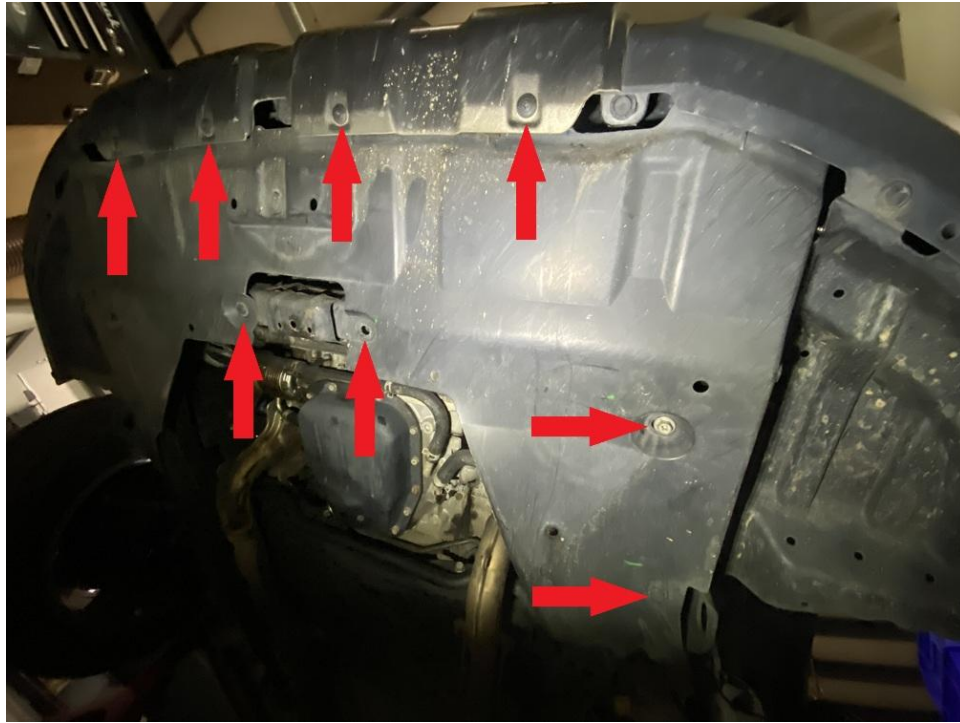
Step 22. Place 6 1x1 M10 spacers between crossmember and body, install 6 M10x50 bolts.



Step 23. Reinstall air intake, tighten clamp on intake hose.



Step 24. Reinstall plastic splash shield using OEM clips.



Step 25. Attach splash shield to fender liner using metal brackets as shown:



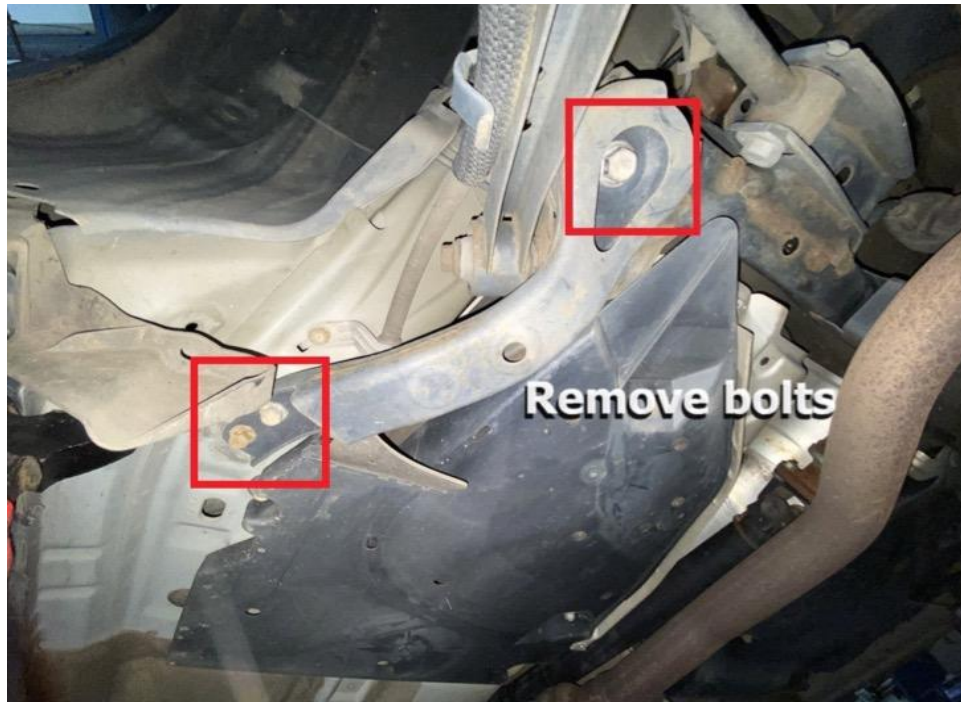
Step 26. Reinstall wheels.

Rear Installation:

Step 1. Lift vehicle and support with jack stands.

Step 2. Remove wheels.

Step 3. Remove 2 14mm bolts holding driver side subframe stiffener bracket to body (see photo)



Step 4. Remove bolt holding parking brake cable bracket.



Step 5. Repeat step 3-4 for passenger side.

Step 6. Remove main subframe bolts one at a time and temporarily install M14x200 bolts.



Step 7. Carefully lower subframe approximately 2 inches.

Step 8. Place 1 2.75x2 M14 subframe spacer "pucks" between subframe and body, install 1 M14x200 bolt.



Step 9. Repeat step 8 for the 3 remaining pucks, install remaining 3 M14x200 bolts.

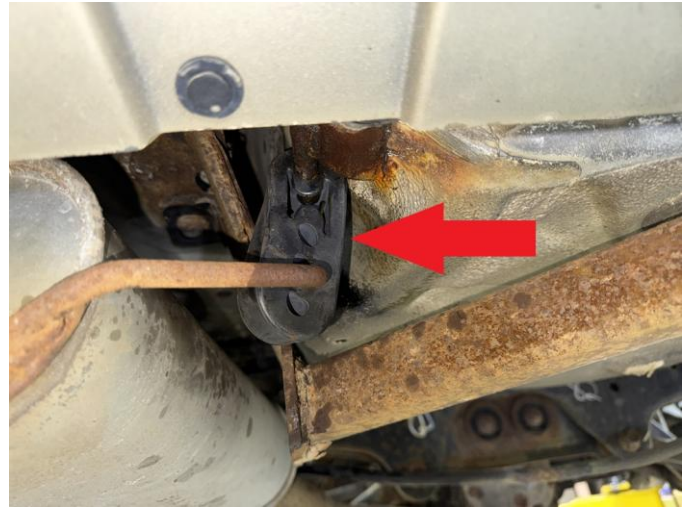
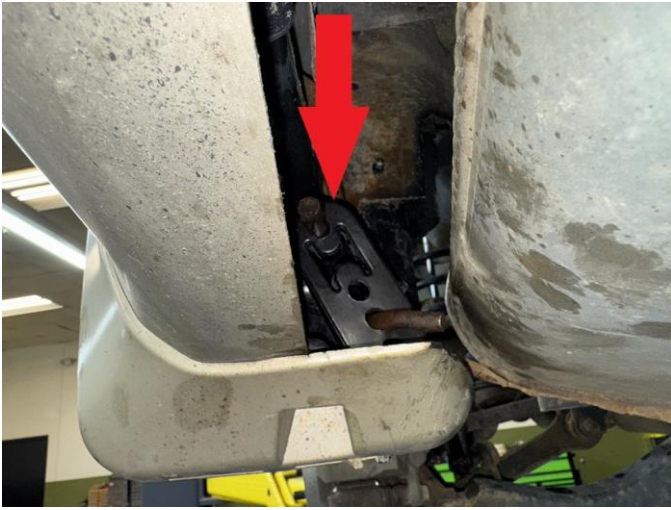


Step 10. Install 2 1x2 M10 spacers and M10x70 bolts between stiffener bracket and body. (see photo below) (repeat for opposite side)

Step 11. Install 1 0.75x1 M8 spacers and M8x40 bolts between parking brake cable and body (see photo) (repeat for opposite side)



Step 12. Install extended muffler hangers as shown:



Step 13. Referring to factory service manual, torque all bolts to spec.

Step 14. Reinstall wheels.

Step 15. Get a professional alignment.

Step 16. Find some trails!



Note: Installing lift spacers 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!

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