1997-2001 Honda CRV2WD/4WD 1" subframe kit installation guide

Professional installation is recommended

FOR OFF-ROAD USE ONLY!

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.

Included in the kit:

4 1.25x1" M12 spacers (rear subframe)
4 1.25x1.5" M12 spacers (rear trailing arms)
5 1.25x1" M12 spacers (engine/transmission bolts)
2 2.75x1" M10 spacers for rear differential (4WD kit)
2 1x1" M10 spacers (propeller shaft) (4WD kit)
2 1" "H" spacers (front torque mounts)
8 1.25x1" M14 spacers (main subframe)

2 .625x1 M8 spacers (driveshaft safety loop) (4WD kit)
4 M10x50mm bolts (torque mounts)
2 M10x50mm bolts (propeller shaft) (4WD kit)
4 M14x125mm bolts (main subframe)
4 M14x135mm bolts (main subframe)
4 M12x90mm bolts (trailing arms)
4 M12x110mm bolts (rear subframe)
3 M12x45mm bolts (manual transmission only)
2 M12x70mm bolts (auto transmission only)
2 M12x50mm bolts (engine)
2 M8x40mm bolts (driveshaft safety loops) (4WD kit)

Tools required: Floor jack, lug wrench, 10mm socket, 12mm socket, 14mm socket, 17mm socket and wrench, 19mm socket, impact wrench, torque wrench and paint pen.

Installation time: 4 hours

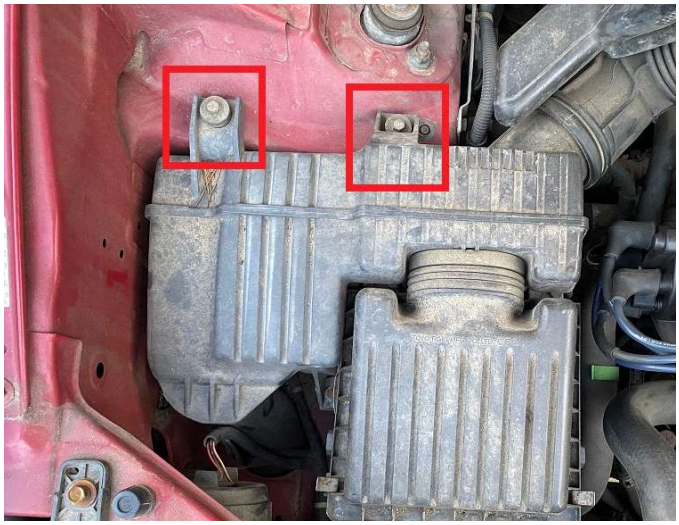
Note to installer: All bolts removed to install subframe kit will be replaced with longer bolts. Some OEM hardware will be reused. Please note this kit is not a suspension lift. It is designed to be used in conjunction with a suspension lift in order to align drivetrain and steering components closer to factory spec. This kit will not work properly with suspension lifted more than 3" (as measured from the fender lip to the ground, not the height of the spacers). When installing this kit without the optional steering shaft extension, the steering wheel tilt function will be lost.

Front installation:

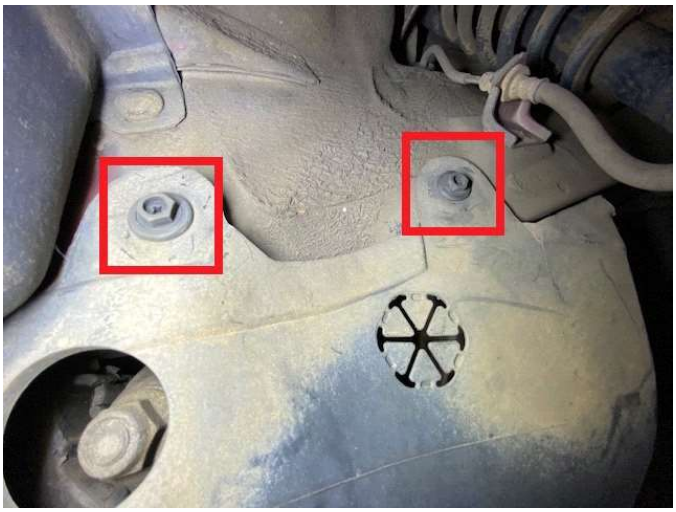
Step 1. Jack up vehicle and support with jack stands

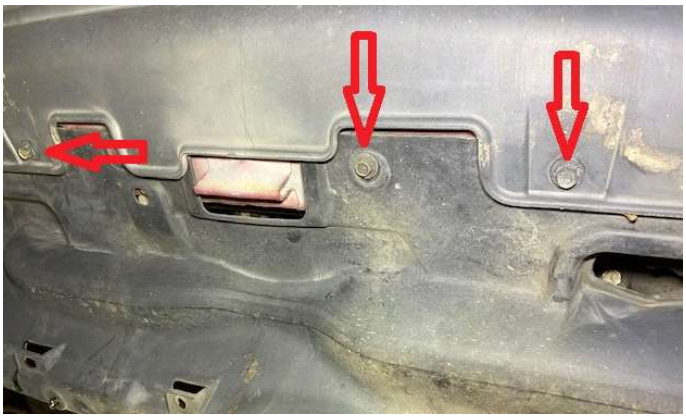
Step 2. Remove wheels

Step 3. Remove factory air box (if applicable) to gain access to passenger side transmission mount.



Step 4. Remove plastic splash shield from under front bumper (see photos) This part can be left off or modified to reinstall.



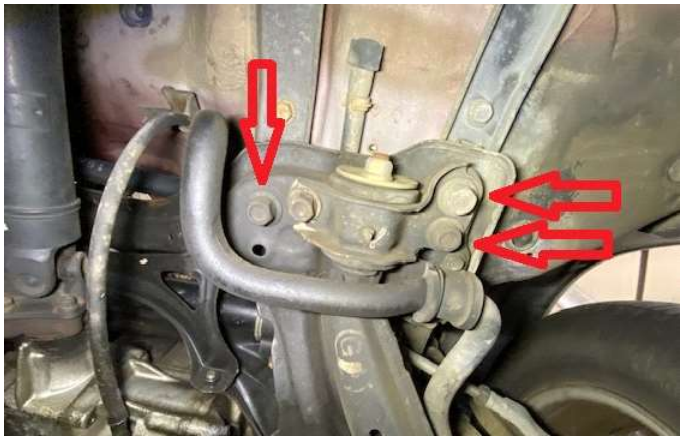


Step 5. Support engine/transmission with floor jack, taking care not to dent oil pan

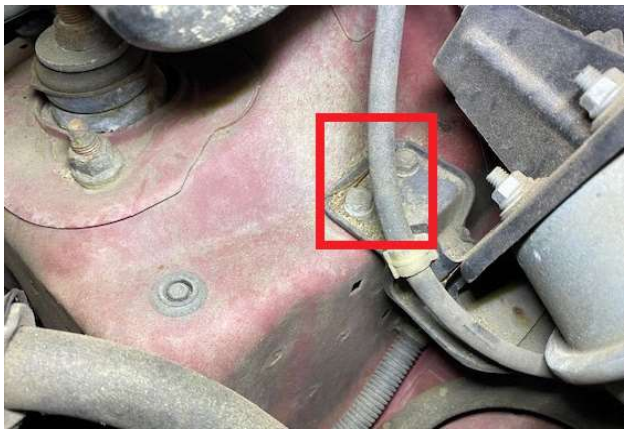
For steps 6-19, please refer to installation diagram on back page.

Step 6. Remove four 14mm bolts from front torque mounts into frame.

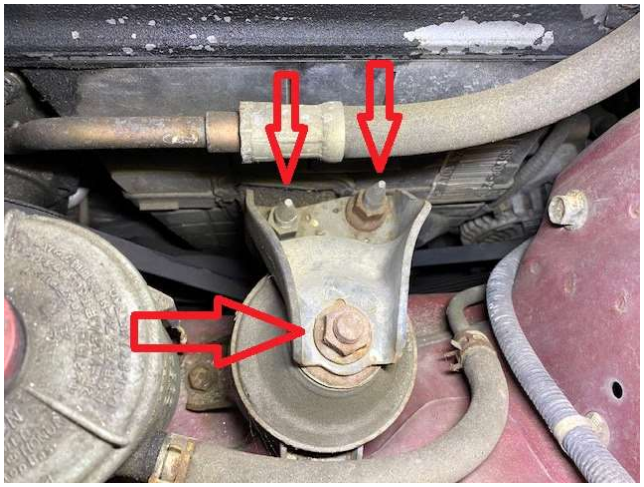
Step 7. Remove six of the eight 19mm bolts holding front subframe to body, leaving one on each side. Loosen the last 2 bolts approximately one inch but do not completely remove at this time.



Step 8. Remove cruise control module (if applicable) to gain access to driver side engine mount.



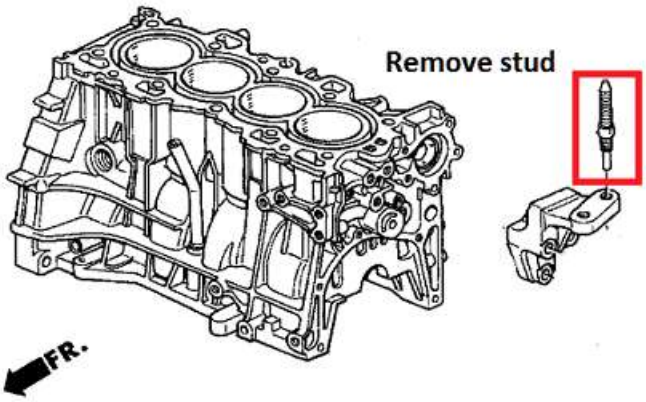
Step 9. Remove 17mm bolts and nuts holding bracket to frame rail and engine mount.



Step 10. Remove engine mount.

Step 11. Remove stud(s) from engine mount bracket. This can be done by tightening 2 17mm nuts against each other and backing the studs out of the bracket. See diagram below.

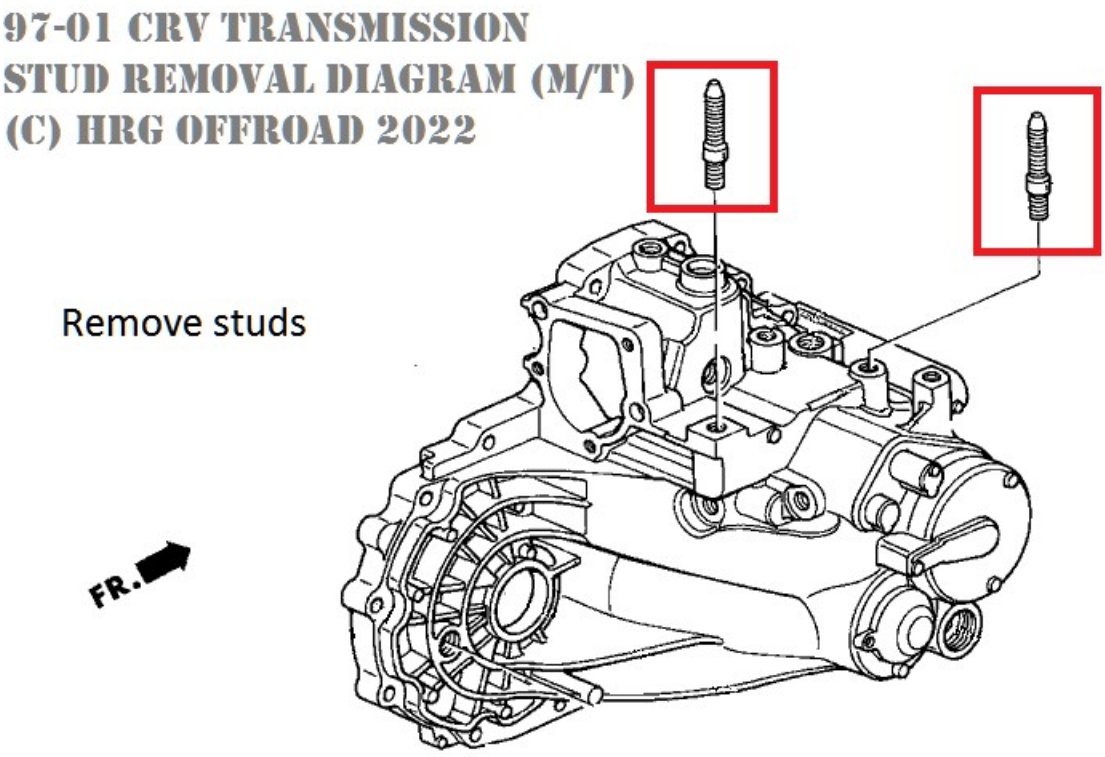
ENGINE MOUNT STUD REMOVAL DIAGRAM (C) HRG OFFROAD 2022



Step 12a. For automatic RT4WD and 2WD transmissions: Remove 1 17mm bolt and 2 17mm nuts on transmission mount, remove bracket.

Step 12b. For manual RT4WD and 2WD transmissions: Remove 2 17mm bolts and 1 17mm nut from transmission mount, remove bracket.

Step 13. Remove stud(s) from transmission. (Refer to step 12.) The studs will be replaced by bolts.



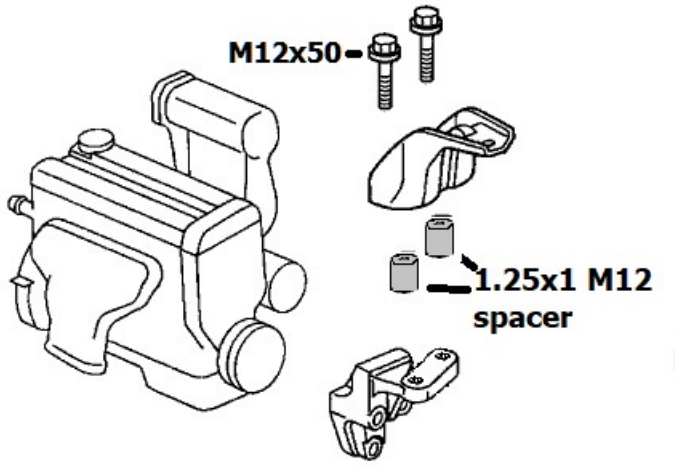
Step 14.Carefully lower engine, front cross member and subframe approximately 1 inch.

Step 15. Install 2 1" M10 "H" spacers and 4 M10x50 bolts in front torque mounts. (see diagram on back page)

Step 16a. (Manual transmission) Install 3 1.25x1" M12 spacers between transmission bracket and transmission, install 3 M12X45mm bolts

Step 16b. (Automatic transmission) Install 2 1.25x1" M12 spacers between transmission bracket and transmission, install 2 M12x70mm bolts

Step 17. Install 2 1.25x1" M12 spacers between engine bracket and mount. Install 2 M12x50mm bolts, reinstall cruise control module. (see diagram below)



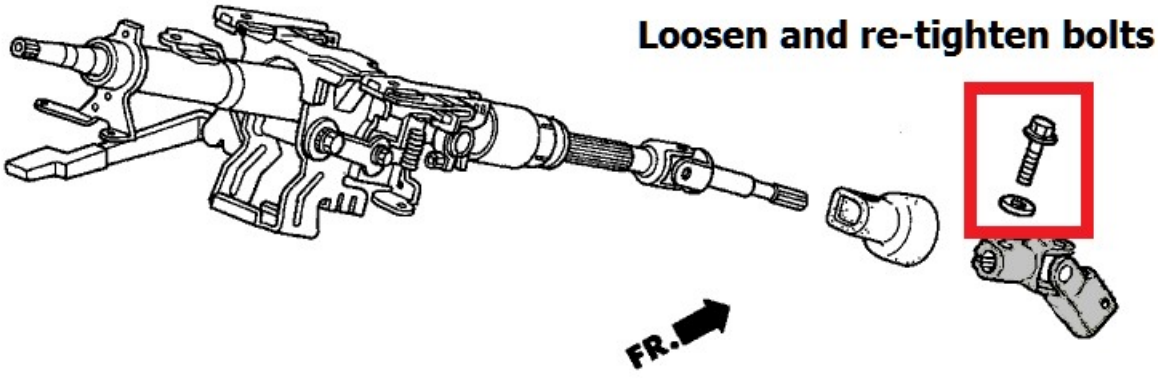
Step 18. Place 1.25x1 M14 spacers in locations where subframe bolts were removed. Do not remove all subframe bolts at once.

Step 19. Replace 4 OEM M14x100 bolts with M14x125 and Replace 4 OEM M14x83 bolts with M14x115 in remaining locations **one at a time** so that the subframe stays in alignment.

Step 20. Loosen both 10mm bolts on steering coupler.

Step 21. Steer the wheels back and forth to self-adjust steering column.

Step 22. Tighten bolts on steering coupler.



Step 23. Double check all subframe bolts for tightness.

Step 24. (Optional). If installing suspension spacers, do so at this time, refer to lift kit instructions.

Step 25. Use torque wrench to double check all bolts, mark bolts with paint pen that have been double checked.

Step 26. Reinstall air box.

Step 27. Modify plastic splash shield under bumper as needed to clear the lowered subframe.

Step 28. Reinstall front wheels.

Rear installation:

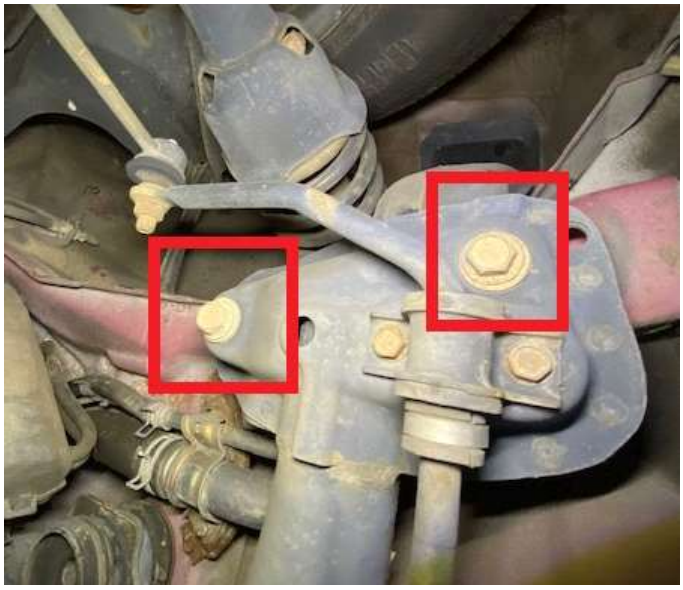
Step 1. Jack up vehicle and support with jack stands.

Step 2. Remove wheels.

Step 3. Support rear cross member with floor jack.

For steps 4-14 please refer to installation diagram on back page

Step 4. Loosen 4 17mm bolts holding rear cross member to frame but do not remove. Using a jack, carefully lower the rear cross member about one inch.



Step 5. Install 4 1.25x1" M12 spacers between cross member and chassis using M12x110 bolts. Install new bolts one by one to maintain alignment of crossmember.

If 2wd, skip to step 11.

Step 6. (4WD only) Support rear differential with floor jack.

Step 7. Remove 14mm bolts holding rear differential support bracket to body, lower rear differential about one inch.

Step 8. Install 2 2.5x1" spacers between rear differential support bracket and chassis. Replace OEM bolts.

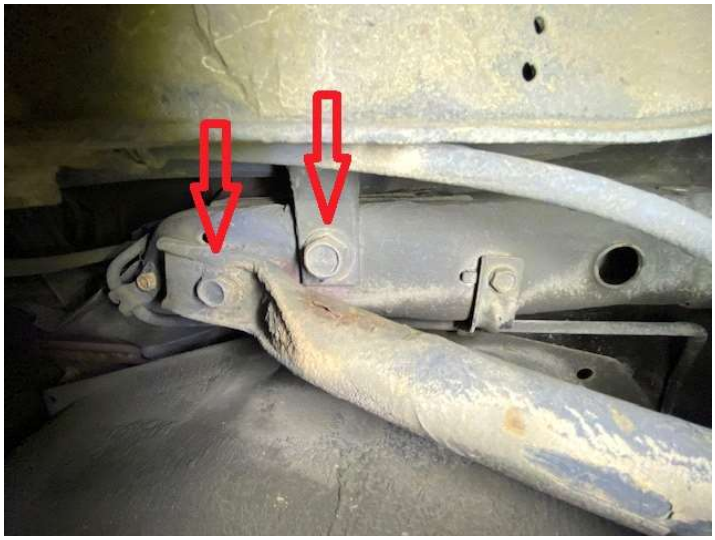
Step 9. Remove 1 of the 2 M8x15 bolts holding the rear driveshaft safety loop to body. Install (1) .625x1" M8 spacers and M8x40 bolt between safety loop and body. Repeat step 9 for front safety loop. (see photo)

Step 10. Support propeller shaft with floor jack, carefully remove 2 14mm bolts holding center carrier bearing on propeller shaft.

Step 11 Install (2) 1x1" M10 spacers and 2 M10x50mm bolts between carrier bearing and body.

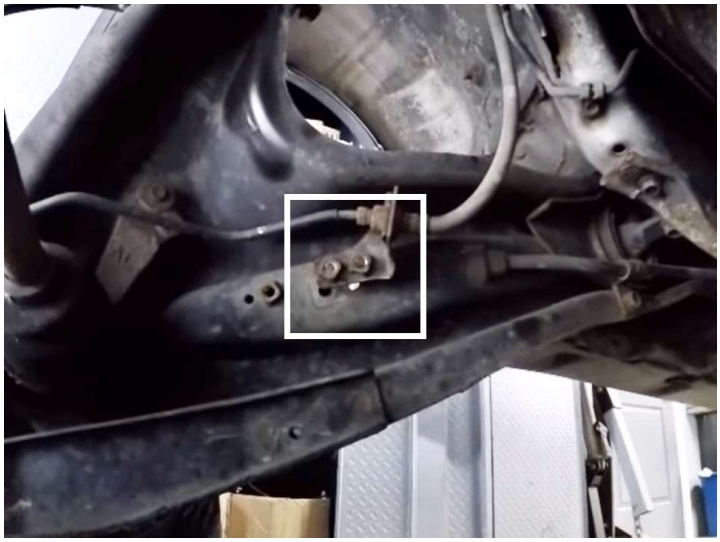
Step 12. Remove 10mm bolt in chassis brace. (see photo below)

Step 13. Loosen but do not completely remove 2 17mm bolts in driver side rear trailing arm to frame.



Step 14. Install 1.25x1.5" M12 spacers and M12x90mm bolts one at a time in rear trailing arm to frame.

Step 15. Check slack in rubber brake lines and if necessary, remove the 2 10mm bolts holding brake hardline to trailing arm.



Step 16. Drill a mounting hole in the upper edge of the trailing arm for the rear brake line bracket.

Step 17. Carefully bend brake lines into the new location and bolt bracket to new mounting hole.

Step 18. Repeat steps 11-17 for passenger side

Step 19. (optional) If installing suspension spacers, do so at this time, refer to lift kit instructions.

Step 20. Using a torque wrench, double check all bolts and mark bolts with paint pen that have been double checked.

Step 21. Reinstall wheels.

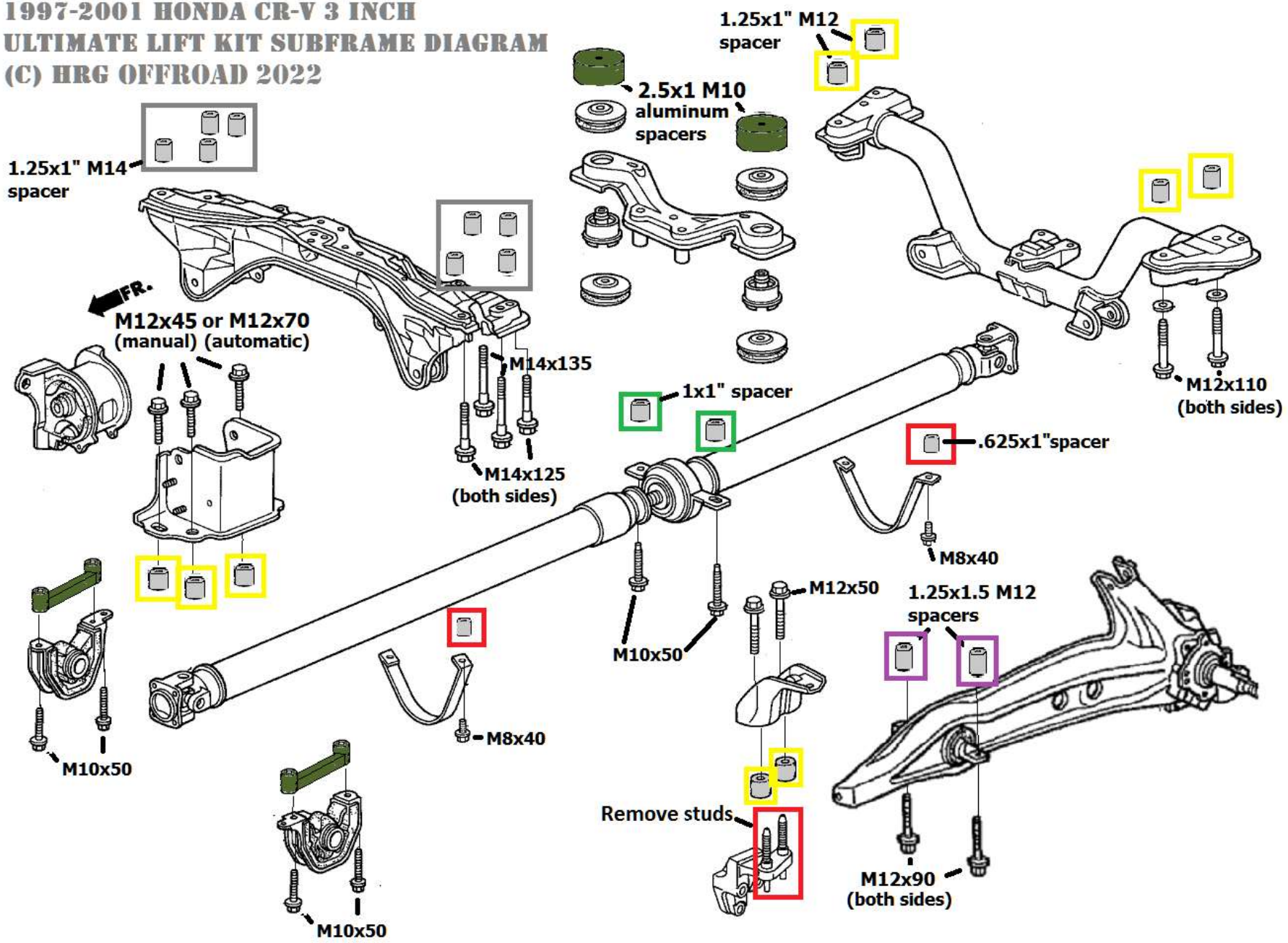
Note: Installing sub frame spacers will change the suspension geometry and will require a 4 wheel alignment.

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 8-5 EST Mon-Sat or email us 24/7 at support@offroad.com.

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

1997-2001 HONDA CR-V 3 INCH ULTIMATE LIFT KIT SUBFRAME DIAGRAM



Checklist:

__ 1.25x1 M12 (1 pack of 4, 1 pack of 2)	2-u
__ 1.25x1 M12 (1 pack of 3)	2-u
__ 1.25x1.5 M12 (1 pack of 4)	2-s
__ 1.25x1 M14 (2 packs of 4)	2-t
__ 1x1 M10 (1 pack of 2)	1-q
__ 2.75x1 M10 (2)	6-i
__ 1 inch H spacer (2)	6-k
__ M14x135 (1 pack of 4)	2-k
__ M14x125 (1 pack of 4)	2-k
__ M8x40/.625x1 (1 pack of 2)	1-h
__ M10x50 (1 pack of 6)	1-e
__ M12x110 (1 pack of 4)	1-k
__ M12x90 (1 pack of 4)	1-k
__ M12x50 (1 pack of 2)	1-i
__ M12x70 (1 pack of 2) (AT only)	1-j
__ M12x45 (1 pack of 3) (MT only)	1-h
__ sticker	