



2019 RAM 1500 4WD 2 Inch Leveling Kit INSTALLATION INSTRUCTIONS

Engineered for 4WD models Only.
Fits 2019 RAM 1500 4WD

⚠️ NOTE: Does NOT Fit "TRX" models.

⚠️ NOTE: Does NOT Fit models with Factory Air Ride Suspension.



🚫 CAUTION: MAKE SURE YOU HAVE THE CORRECT LIFT FOR YOUR VEHICLE:
Double check the Year, Make, Model, Lift Height and KIT Part Numbers.

⚠️ NOTE: Prior to beginning the installation, OPEN the Boxes and CHECK the Included Components Compared to the Parts Breakdown. Check all parts and hardware in the box with the parts list below. Be sure you have all needed parts and know where they install.

IF you find a packaging error, contact SUPERLIFT directly. Do not contact the dealer where the system was originally purchased. You will need the control number from each box when calling; this number is located at the bottom of the part number label and to the right of the bar code.

How to Read the Kit Breakdown Charts:

The 'K KIT BREAKDOWN' lists the Part Numbers, Quantities & Part Description of the Boxes that are included in the K KIT. The 'KIT BREAKDOWN' lists Part Numbers, Quantities & Part Description of the Individual Components & Hardware Bags that are included in Each Box. The 'HARDWARE BREAKDOWN' lists the Part Numbers, Quantities & Part Description of the Individual Components.



| K KIT BREAKDOWN | | |
|-----------------|-------|------------------|
| Kit Part Number | 40041 | |
| Part Number | Qty. | Part Description |
| 40041 | 1 | Front Kit Box |

| KIT BREAKDOWN | | |
|-----------------|-------|------------------------------------|
| Kit Part Number | 40041 | |
| Part Number | Qty. | Part Description |
| 55-01-40041 | 2 | Preload Strut Spacer RAM 1500 2019 |

| Step | Part Number | Qty. per Kit | Description | New Attaching Hardware | Qty. per Bracket | Hardware Bag Number |
|------|-------------|--------------|------------------------------------|------------------------|------------------|---------------------|
| 7 | 55-01-40041 | 2 | Preload Strut Spacer RAM 1500 2019 | | | |



2019 RAM 1500 4WD 2 Inch Leveling Kit INSTALLATION INSTRUCTIONS

**THANK YOU FOR CHOOSING
SUPERLIFT FOR ALL
YOUR SUSPENSION NEEDS!**

CAUTION: Read And Understand All Instructions
And Warnings Prior To Installation Of System AND
Operation Of Vehicle.



INTRODUCTION BEFORE INSTALLATION...

Installation requires a professional mechanic. In addition to these instructions, professional knowledge of disassembly / reassembly procedures and post installation checks must be known.

PRIOR to beginning, inspect the vehicles steering, driveline, and brake systems, paying close attention to the suspension link arms and bushings, sway bars and bushings, tie rod ends, pitman arm, idler arm, ball joints and wheel bearings. Also check the steering sector-to-frame and all suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition; repair or replace all worn parts.

Read instructions several times before starting.

Read each step completely as you go.

Be sure you have all needed parts and know where they install.

NOTES:

- Do NOT install this suspension system in conjunction with any other type of aftermarket or fabricated components to gain additional suspension height.
- Front end alignment is necessary.
- A foot-pound torque reading is given in parenthesis () after each appropriate fastener.
- Tool and Wrench/Socket size is given in brackets [] after each appropriate step.
- Prior to attaching components, be sure all mating surfaces are free of grit, grease, excessive undercoating, etc.
- Always wear safety glasses when using power tools.
- A factory service manual should be on hand for reference.

BEFORE YOU DRIVE...

Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering components for clearance.

Test and inspect brake system. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/replacement may result in component failure.

Perform head light check and adjustment.

⚠️ WARNING: It is the ultimate buyer's responsibility to have all bolts / nuts checked for tightness after the first 100 miles and then every 1000 miles. The steering, suspension and driveline systems, plus wheel alignment should be inspected by a qualified professional mechanic at least every 3000 miles.

TECH TIP / TIME SAVER...

- Some minor trimming will be required with certain wheel/ tire combination. This is normal with most aftermarket tire/wheel fitment on RAM trucks. Trimming will normally include the bottom edge of the inner fender shrouds and/or lower corner of front bumper valance. As a rule of thumb, deeper backspacing and shorter/ narrower tires will reduce/eliminate trimming required.

TIRES & WHEELS...

Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.

⚠️ NOTE: Stock \ Factory 17" & 18" Wheels Will Fit back on the vehicle once this suspension system is installed. Aftermarket Wheels Require 5.00-5.51 Inch Back Spacing.

⚠️ WARNING: ANY larger or wider tire & wheel combination other than listed Will Require Vehicle Trimming.


| TIRE SIZE SPECIFICATIONS | | | |
|--------------------------|--------|--------------------|-------------|
| Tire Size | Wheel | Backspacing (INCH) | Offset (MM) |
| 35x12.50R17 | 17 x 9 | 5.00-5.51 | +13 |
| 35x12.50R18 | 18 x 9 | 5.00-5.51 | +13 |
| 35x12.50R20 | 20 x 9 | 5.00-5.51 | +13 |
| 35x12.50R22 | 22 x 9 | 5.00-5.51 | +13 |

IMPORTANT DISCLAIMER: The provided tire/wheel fitments are approximate. Actual dimensions of a given tire size can vary considerably from one brand to another. Manufacturers' wheel offset and backspacing measurement points are not always consistent. Backspacing greatly impacts tire-to-fender clearance when turning. Wheel width and backspacing influence whether the tires protrude past the fenders, and to what extent. Considering these important factors, we recommend that you fit-check your tire/wheel selection prior to purchasing.

TOOLS & TECH...

This is a list of tools needed to install this lift kit. Double check the list to make sure that you have all the tools and equipment required to accomplish the complete install.

| Tools | | |
|------------------------------|-----------------------|--------|
| Misc. | Wrench / Socket Sizes | |
| | Standard | Metric |
| Floor Jack | | |
| Jack Stands | | 8mm |
| Hammer | | 16mm |
| Pry Bar | | 18mm |
| Plastic Fastern Removal Tool | | 21mm |
| Strut Spring Compressor | | 22mm |
| | | 24mm |

We have also included a **Tech Tip** noted by this icon  **TECH TIP** to help if we have found a quicker or easier way to accomplish a task in the steps.

NOTE: Use the check-off box found at each step to help you keep your place. Two denotes that one check-off box is for the Driver Side (Left) and one is for the Passenger Side (Right). Unless otherwise noted, always start with the Driver Side.

FRONT DISASSEMBLY

NOTE: Save ALL factory components and hardware for reuse, unless noted.

PREPARE VEHICLE FOR FRONT...

1. Disconnect the battery.

Chock rear tires and place transmission in neutral. Raise the front of vehicle with a jack and secure a jack stand beneath each frame rail. Ease the frame down onto the stands, place transmission in low gear for Manual Transmission or Park for Automatic. Remove the front wheels & tires. [Lug Nuts 22mm]

DISCONNECT ABS LINES FROM KNUCKLE & UCA...

2. Locate the ABS line that runs from the back of the wheel hub up toward the Upper Control Arm (UCA) and then to the frame.

[Illustration 1-A]

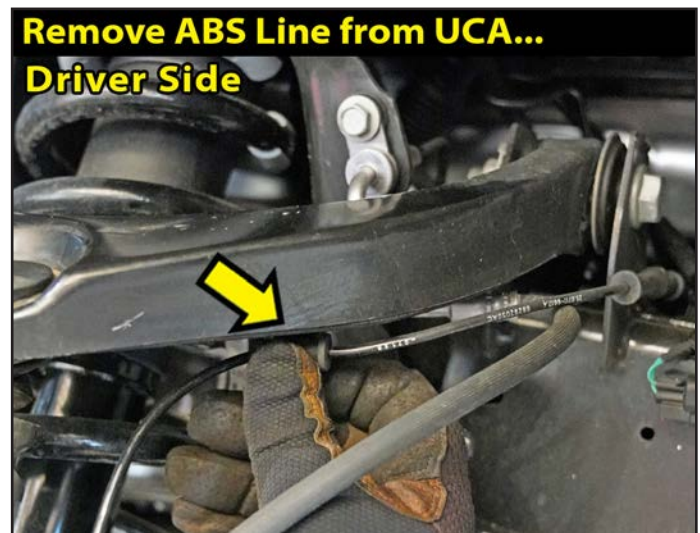
[Illustration 1-A] Remove ABS line from the hanger bracket at the back of the knuckle.

[Illustration 1-B] Follow the ABS line up toward the UCA and disconnect the ABS line from the brake line attachment clip.

[Illustration 1-C] Disconnect ABS line clip from the UCA.



[Illustration 1-C]



[Illustration 1-B]



DISCONNECT TIE ROD END...

3. **[Illustration 2]** Remove the tie rod. [21mm]
Reinstall the nut a couple of turns by hand.

Use a Tie Rod Puller to separate the tie rod from the knuckle. **⚠️WARNING:** Be careful. Do not let the knuckle fall to the side abruptly. It could cause damage to the ABS wires or brake lines.

🔧TECH TIP If you do not have a puller, you can use the method of striking the knuckle near the ball joint end to dislodge the knuckle. Strike the knuckle portion only.

Remove the tie rod nut and save for re-install.

[Illustration 2]



REMOVE BRAKE CALIPER...

4. **[Illustration 3]** Remove the (2) brake caliper bolts [21mm] and remove caliper from the rotor and secure it away from the work area. Retain factory bolts.

Do not let calipers hang from brake lines. Using a bungee strap, wire hook or wire, safely secure the calipers to the frame to remove the tension from the brake lines and to add working room.

DISCONNECT UPPER BALL JOINT FROM KNUCKLE...

5. Using a jack, slightly lift the Lower Control Arm (LCA) & knuckle assembly to prevent the arms from being at full droop.

Loosen the UCA bolts. [21mm]

[Illustration 4] At the top of the knuckle, remove cotter pin and nut from Upper Ball Joint (UBJ). [21mm & 8mm] **🔧TECH TIP** Turning the knuckle inward will allow easy access to the nut.

Using the appropriate puller tool, disconnect the ball joints from the knuckle. **🔧TECH TIP** If you do not have a puller tool you can use a hammer by very carefully striking the ball joint boss' of the knuckle; do not strike the ball joint.

Lower the jack to allow the removal of the knuckle assembly, but keep in place.



[Illustration 3]






[Illustration 4]







DISCONNECT SWAY BAR LINK FROM LCA...



6.   **[Illustration 5]** Disconnect the sway bar link from the LCA. [18mm]



REMOVE STRUT...

7.   **[Illustration 6-A]**  **NOTE:** Before you completely remove the strut, 'Mark' the Alignment of the Coil, Top Mount & Isolator. Also Mark 'DR.' & 'PA.' Side.

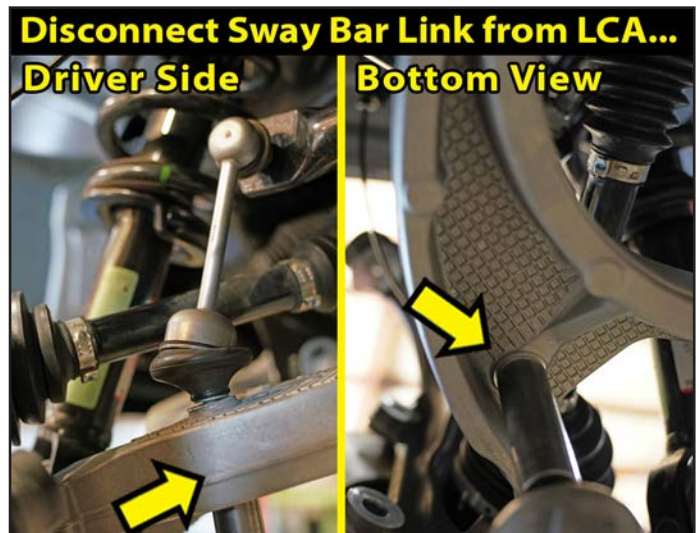
  **[Illustration 6-B]** Remove bolt from lower strut mount on the LCA. [21mm & 24mm]

  **[Illustration 6-C]** Remove the wiring clip from the upper strut nut.

  **[Illustration 6-D]** Remove the (3) upper strut nuts. [16mm]

  **[Illustration 6-A]** Remove the strut from the vehicle. Leave the jack support under the knuckle assembly so the CV axles are not over extended.

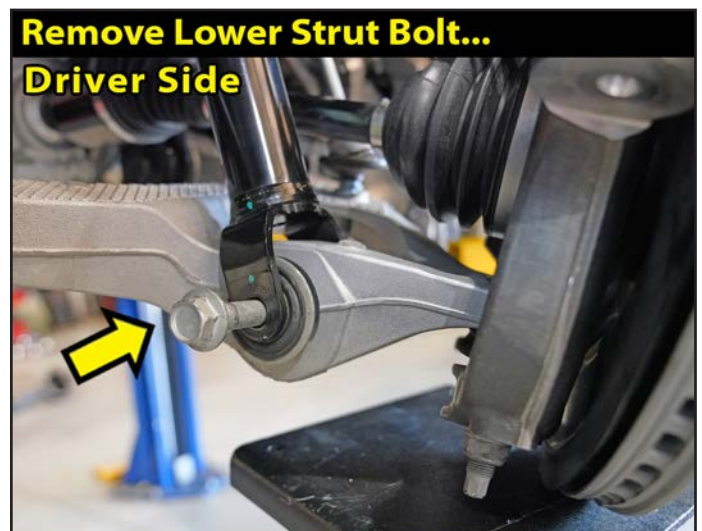
[Illustration 5]



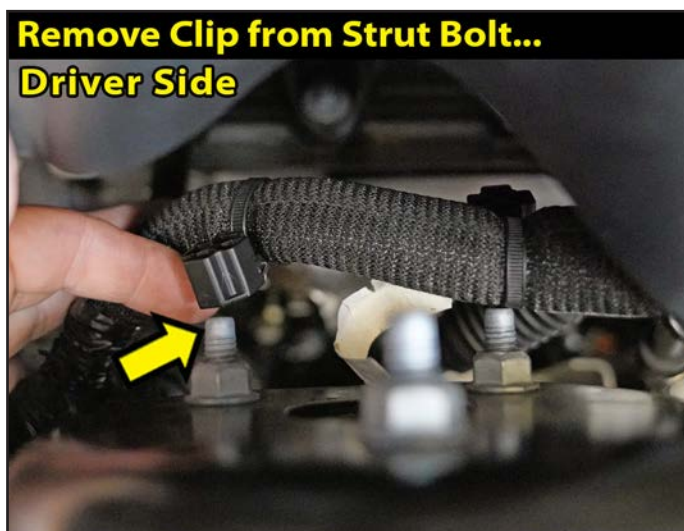
[Illustration 6-D]



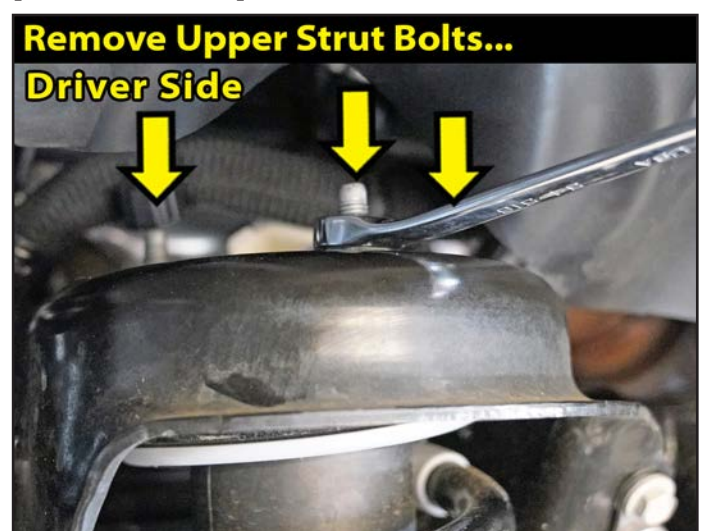
[Illustration 6-B]



[Illustration 6-C]



[Illustration 6-D]



STRUT SPACER ASSEMBLY...

8. **TECH TIP** It is best to disassemble, then assemble one (1) side at a time to keep all the components in order. We start with the Driver side first.

Locate the (2) SUPERLIFT #55-01-40041 strut spacers.

☐☐ Using the appropriate compressor, compress the coil & remove the top strut nut [18mm]

☐☐ Separate the upper strut plate from the coil.

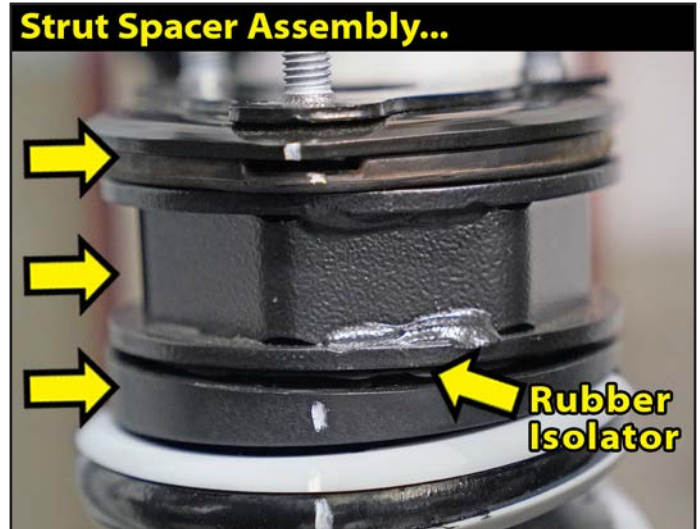
☐☐ **[Illustration 7]** Place the factory rubber isolator under the new strut preload spacer #55-01-40041.

☐☐ **[Illustration 7]** Insert new strut preload spacer #55-01-40041 onto the plastic coil seat.

NOTE: Remember to keep your Marks in line on the reassembly.

☐☐ Place factory strut top plate onto new spacer. Place bushing and nut onto the upper strut shaft. [18mm] Tighten.

[Illustration 7]



FRONT ASSEMBLY

INSTALL STRUT ASSEMBLY...

9. If a jack was used to support the knuckle assembly, lower & remove now. Insert strut assembly into the upper spring tower.

☐☐ **[Illustration 8-A]** Using the factory nuts, install & tighten the three (3) top bolts. [16mm] (37)

☐☐ **[Illustration 8-B]** Reattach the wiring clip to the upper strut nut.

☐☐ **[Illustration 8-C]** Realign the sway bar link into the LCA. Secure hardware, but do not tighten at this time. [18mm] (This bolt will be tightened once completed and the truck is set on the ground.)

☐☐ **[Illustration 8-D]** Connect the lower strut mount to the lower control arm using the factory hardware. Secure hardware, but do not tighten at this time. [21mm & 24mm] (This bolt will be tightened once completed and the truck is set on the ground.)

[Illustration 8-A]

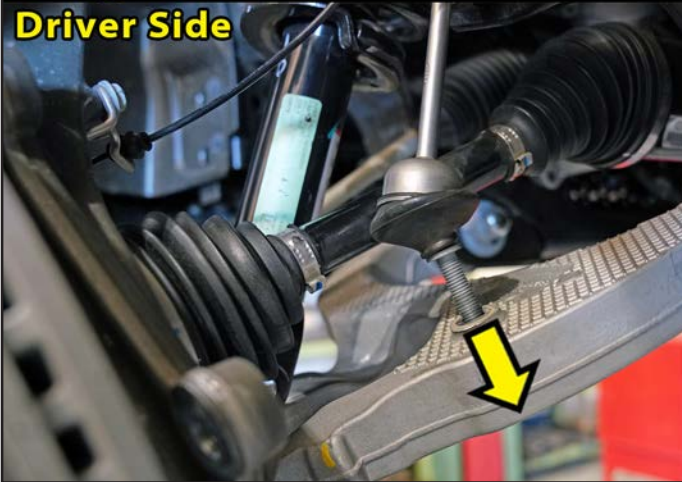


[Illustration 8-B]



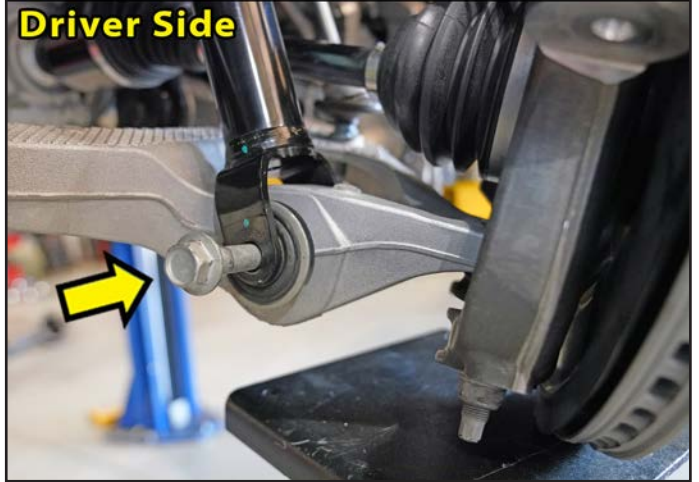
[Illustration 8-C]

**Realign Swar Bar Link into LCA...
Driver Side**



[Illustration 8-D]

**Connect Lower Mount Strut to LCA...
Driver Side**



CONNECT TIE ROD TO KNUCKLE...

10. [Illustration 9] Connect the tie rod end to the knuckle (from the top side) using the factory hardware. Tighten castle nut & install cotter pin [21mm] (44)

CONNECT UPPER BALL JOINT TO KNUCKLE...

11. [Illustration 10] Connect the UBJ to the knuckle with the factory nut. Tighten [21mm & 8mm] (37)

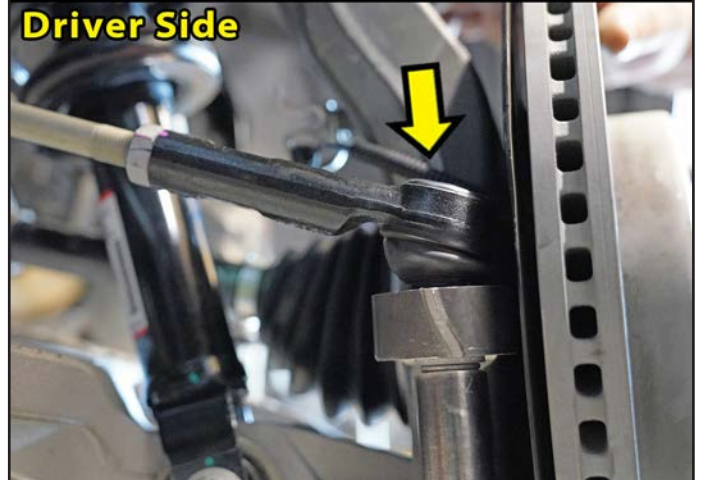
REATTACH BRAKE CALIPER...

12. [Illustration 11] Apply thread locker to the factory brake caliper bolts.

Install brake caliper onto knuckle and tighten [21mm]

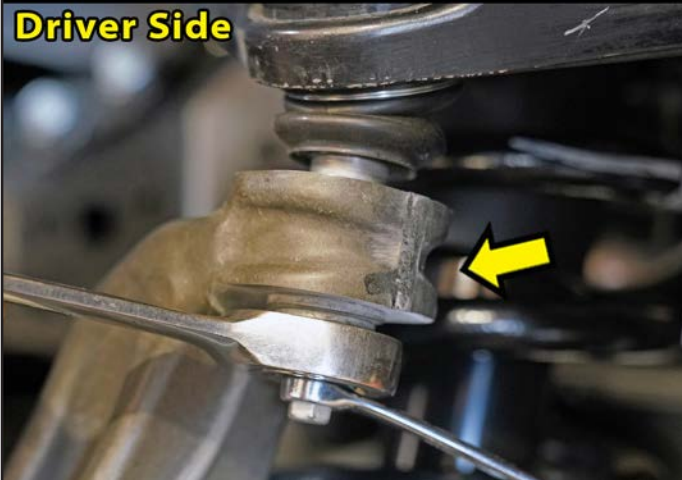
[Illustration 9]

**Connect the Tie Rod to the Knuckle...
Driver Side**



[Illustration 10]

**Connect the UBJ to the Knuckle...
Driver Side**



[Illustration 11]

**Install Brake Caliper...
Driver Side**



RECONNECT ABS LINES TO UCA & KNUCKLE...

13. □□ [Illustration 12-A] Reconnect ABS line clip to the UCA.

□□ [Illustration 12-B] Reconnect the ABS line to the brake line attachment clip.

□□ [Illustration 12-C] Reattach the ABS line to the hanger bracket at the back of the knuckle.

FRONT TIGHTEN & TORQUE SEQUENCE...

14. □□ Now tighten and torque everything up... (All Except the lower strut mount, UCA, LCA & the sway bar links.) These will be tighten once the lift is complete and the vehicle is on the ground.

Double check all other components to be sure they are all tight & torqued.

FRONT TIRES / WHEELS...

15. □□ [Illustration 13] Install the front tires & wheels. [Lug Nuts 22mm] (140) **⚠WARNING:** When the tires / wheels are installed, always check for and remove any corrosion, dirt, or foreign material on the wheel mounting surface, or anything that contacts the wheel mounting surface (hub, rotor, etc.). Installing wheels without the proper metal-to-metal contact at the wheel mounting surfaces can cause the lug nuts to loosen and the wheel to come off while the vehicle is in motion.

Lower the vehicle to the ground.

[Illustration 12-A]



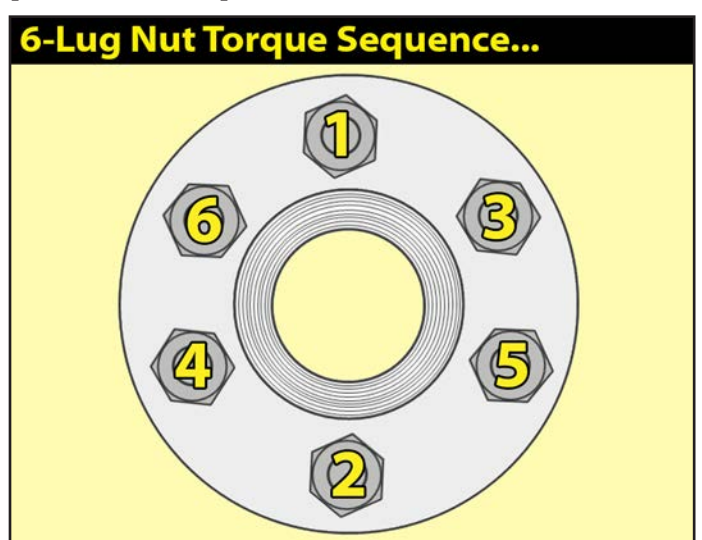
[Illustration 12-B]



[Illustration 12-C]



[Illustration 13]



⚠ WARNING: Re-tighten lug nuts at 500 miles after any wheel change, or anytime the lug nuts are loosened. Failure to do so could cause wheels to come off while vehicle is in motion.

Reconnect the battery.

FRONT CLEARANCE CHECK...

16. With the vehicle on the ground, cycle the steering lock-to-lock and check all components for proper operation and clearances. Pay special attention to the clearance between the tires / wheels and knuckles, brake hoses, wiring, etc.

Raise the vehicle back onto jack stands and secure as per **Step 1**. With the suspension 'hanging' at full extension travel, cycle the steering lock-to-lock and check all components for proper operation and clearances. Pay special attention to the clearance between the tires / wheels and knuckles, brake hoses, wiring, etc. Lower the vehicle to the floor.

OVERALL TIGHTEN & TORQUE SEQUENCE...

17. Tightening sequence... Bounce the front end to settle the suspension.

[Illustration 14] Factory sway bar links at LCA. [18mm] (63)

[Illustration 15] Strut lower bolt. [21mm & 24mm] (80)

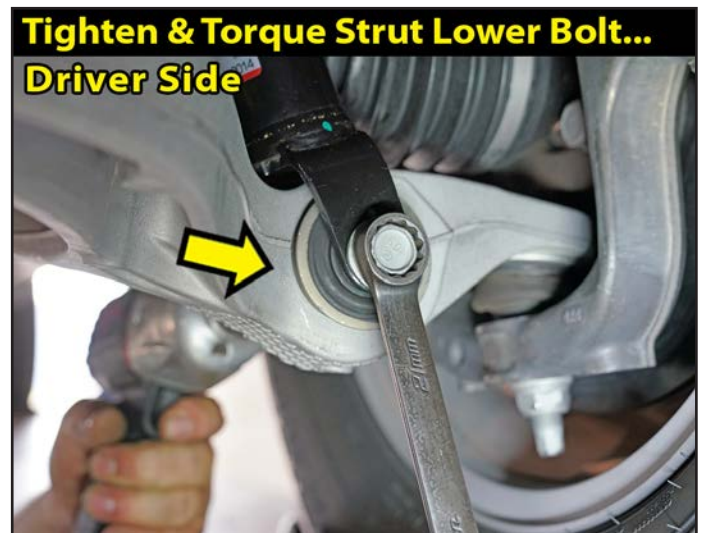
Tighten UCA bolts. [21mm]

Torque lug nuts on all four (4) wheels [22mm] (140)

[Illustration 14]



[Illustration 15]



FINAL CHECKS

CLEARANCE CHECK...

18. Check all hardware for proper torque specifications.

With the vehicle on the ground, check all components for proper operation and clearances. Pay special attention to the clearance between the tires / wheels, brake hoses, wiring, etc. Check tire/wheel clearance with the fenders/bumper as well as with the steering knuckle. **⚠ NOTE:** Depending on your choice of tire size and wheel width, it is not uncommon to trim the lower plastic valance of the bumper and inner fender shroud slightly to add proper tire clearance while turning.

WHEEL ALIGNMENT...

19. Realign vehicle to factory OEM specifications. It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. It is recommended that your vehicle alignment be checked after any off-road driving.

HEADLIGHTS...

20. Re-adjust headlights to proper setting. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle head lamps for proper aim and alignment.

FOUR WHEEL DRIVE...

21. Activate the four wheel drive system and check for proper engagement.

SUPERLIFT WARNING DECAL...

22. Install the **WARNING TO DRIVER** decal on the inside of the windshield, sun visor or on the dash, within Driver's view.

IMPORTANT MAINTENANCE INFORMATION

⚠ WARNING: It is the ultimate buyer's responsibility to have all bolts / nuts checked for tightness after the first 100 miles and then every 1000 miles. The steering, suspension and driveline systems, plus wheel alignment should be inspected by a qualified professional mechanic at least every 3000 miles.