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2006 - 2016 Ram 1500  
4WD / EcoDiesel  
2" Front Metal Spacer Kit  
Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Wrenches & Sockets
- Floor Jack / Jack Stands
- Measuring Tape
- Torque Wrench
- Strut Spring Compressor



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. Affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to the disassembly of the vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed, which makes the difference more visible. Using a measuring tape, measure the front (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: \_\_\_\_\_ Passenger Side Front: \_\_\_\_\_

Important Notes:

- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Ram dealer or an authorized dealer for details.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

## Component Box Breakdown:

### Part #: R620MS

Item #	Description	Qty	Item #	Description	Qty
R620MS-1	06-16 RAM 1500 UPR SPACER	2	I-R620MS	INST SHEET: R620MS	1
R620MS-2	06-16 RAM 1500 LWR SPACER	2			

## Front Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Place a floor jack under the front OEM lower control arm's front cross member & raise the front of the vehicle. Place jack stands under the frame rails, behind the front wheel wells & lower the frame of the vehicle onto the jack stands.
3. Remove the front tires / wheels using a 7/8" socket.
4. Remove each OEM tie rod end from the OEM steering knuckles using a 21mm socket / wrench & a tie rod remover or other suitable tool. (See Photo # 1)
5. Remove each OEM brake caliper using a 13mm socket / wrench.  
**Note:** Simply wire the OEM brake calipers out of the way. It will not be necessary to disconnect the OEM brake lines from the OEM brake calipers.
6. Remove each OEM sway bar end link from the OEM sway bar using a 15mm wrench & a 16mm socket / wrench. (See Photo # 2)
7. Remove each OEM upper ball joint from the OEM steering knuckles using a 21mm socket / wrench & a ball joint remover or other suitable tool. (See Photo # 3)
8. Remove the OEM upper strut retaining nuts from each OEM strut assembly using a 15mm socket / wrench. (See Photo # 4)
9. Remove the OEM lower strut mount bolt from each OEM lower A-arm using a 21mm socket / wrench & a 24mm socket / wrench. Once removed, remove each OEM strut assembly. (See Photo # 5)

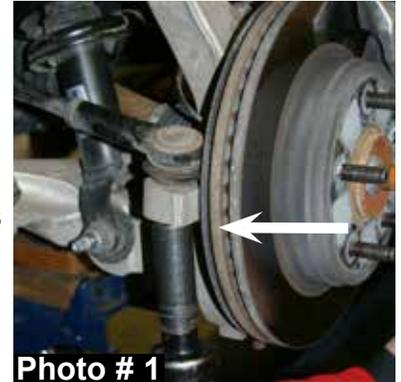


Photo # 1

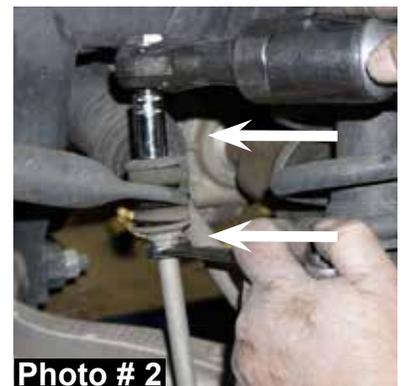


Photo # 2



Photo # 3



Photo # 4



Photo # 5

10. For upper strut mount alignment purposes, mark the location of each OEM upper strut mount & OEM coil spring prior to disassembly. Using a strut spring compressor, compress the coil spring of each OEM strut assembly. Remove each upper strut retaining nut & upper strut mount using a 18mm socket. (See Photo # 6)
11. Install a new Skyjacker lower leveling spacer (Part # R620MS-2) on top of each OEM coil spring isolator pad with the upper cut outs of the new Skyjacker lower leveling spacer facing up & aligned with the OEM upper strut mount studs. (See Photo # 7)
12. Install each OEM upper strut mount, aligning the marks made in Step # 10. Tighten the OEM retaining nut of each OEM strut assembly using a 18mm socket & uncompress the OEM coil spring of each OEM strut assembly. (See Photo # 8)
13. Install a new Skyjacker upper leveling spacer (Part # R620MS-1) on top of each OEM strut assembly aligned with the OEM upper strut mount studs. (See Photo # 9)
14. Install each OEM strut assembly by aligning the OEM upper strut mount studs with the OEM upper mounting locations using the OEM hardware & a 15mm socket / wrench. (See Photo # 4)
15. Install the lower strut mount of each OEM strut assembly to the OEM lower A-arms using the OEM hardware, a 21mm socket / wrench, & a 24mm socket / wrench. (See Photo # 5)
16. Install each OEM upper ball joint to the OEM steering knuckles using the OEM hardware & a 21mm socket / wrench. (See Photo # 3)  
**Note:** It may be necessary to use a jack to raise the OEM lower A-arm in order to install the OEM upper ball joint.
17. Install each OEM sway bar end link to the OEM sway bar using a 15mm wrench & a 16mm socket / wrench. (See Photo # 2)
18. Install each OEM tie rod end to the OEM steering knuckles using a 21mm socket / wrench. (See Photo # 1)
19. Install each OEM brake caliper using a 13mm socket / wrench.
20. Install the front tires / wheels using a 7/8" socket & lower the front of the vehicle to the ground.



Photo # 6



Photo # 7



Photo # 8



Photo # 9

**Final Notes:**

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

<b><u>TORQUE SPECIFICATIONS</u></b>					
<b><u>INCH SYSTEM</u></b>			<b><u>METRIC SYSTEM</u></b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- **The above specifications are not to be used when the bolt is being installed with a bushing.**

**Seat Belts Save Lives, Please Wear Your Seat Belt.**