


## 2005+ Ford F250/F350 2.5 &amp; 3.0 Coilover Conversion

King Shocks 12472 Edison Way Garden Grove, CA 92841  
714-530-8701 [www.kingshocks.com](http://www.kingshocks.com)

**Front Parts List:**

- 2 – 2.5 Coilover Shocks (25001-146) or
- 2 – 3.0 Coilover Shocks (33001-207) 
- 2 – Reservoir Brackets (25044-102 standard res. or 25044-020 finned res.)
- 2 – Lower Mounting Brackets (25029-001)
- 2 – Axle Bump Spacers (25038-002)
- 4 – Brake Line Support Brackets (25029-002, 003, 004)
- 4 – Reservoir Clamps (62032 hose clamp standard res. or 25042-020 aluminum clamp finned res.)
- 1 – 2.5 Hardware Kit **or** 1 – 3.0 Hardware Kit (KH02-158)

**Tools Required:**

- Floor Jack/Jack Stands
- Standard Wrench/Socket Set
- Metric Wrench/Socket Set
- 6mm, 1/8, 5/32, 3/16 Allen Wrench
- Drill and 7/16 Drill Bit
- Sawzall/Grinder

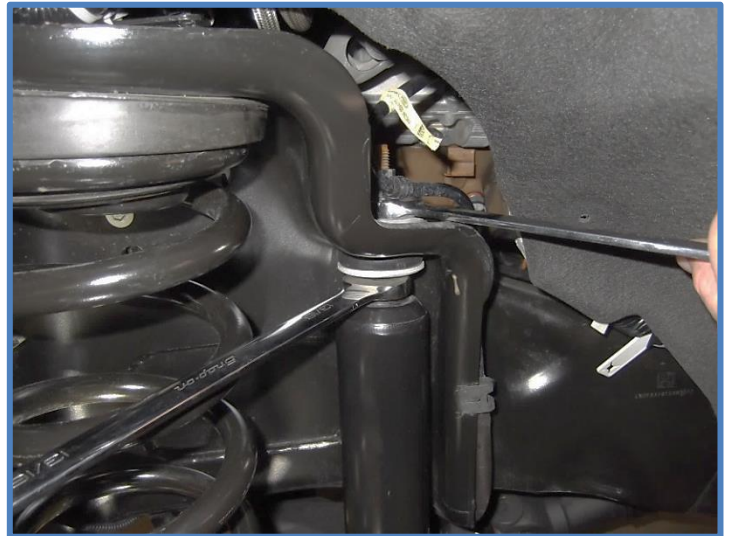
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DEM PERFORMANCE SERIES



**FRONT:** With the vehicle on level ground, set the emergency brake and block the rear tires. Using a floor jack, raise the front end and support the frame rails with jack stands for safety. Remove front tires. **NOTE: Never work under an unsupported vehicle.**

1. Remove existing shocks. Keep the axle supported with a floor jack during disassembly and installation. First remove the lower mounting bolt using an 18mm socket. Remove upper mounting nut using a 21mm socket. (you may need to hold shock with another wrench to keep it from spinning)



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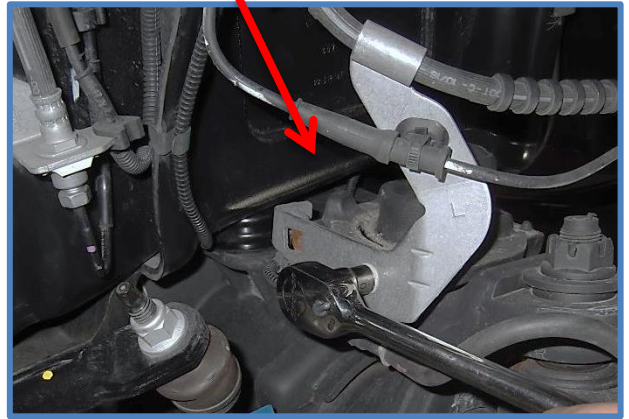
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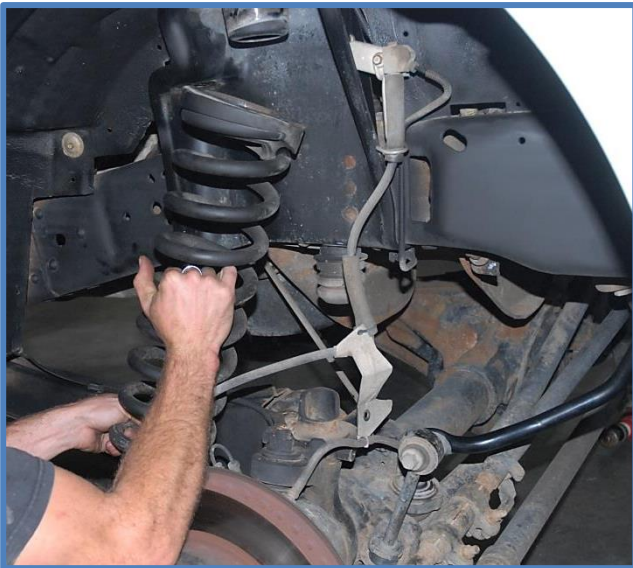
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2. Remove ABS/Brake line supports from both sides of the lower coil bracket using a 10mm wrench/socket.  
**There will be one bracket in front on newer vehicles.**



3. With the shocks removed and the ABS/brake lines disconnected, lower the axle and remove the coil springs.



4. Remove the foam bump stop from the mount on frame. Pull the bump stop to the side and down with a firm tug to remove bump stop.



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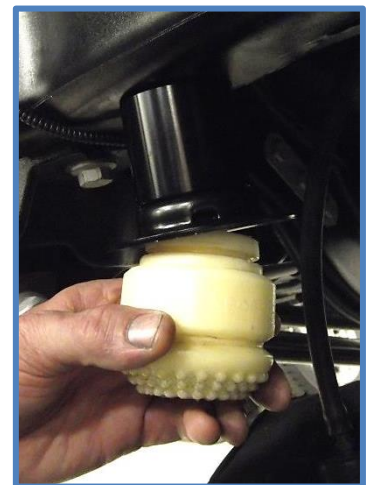
5. Remove the bump stop mount from the frame using a 10mm socket.



6. The bump stop mount has a tab sticking out that needs to be tapped flat with a hammer as shown.



7. Reinstall the bump stop mount with the supplied spacer and longer bolt w/washer. Tighten the bolt using a 6mm Allen wrench. Push the bump stop back into the mount making sure it's pushed in all the way.



8. Remove the lower coil mount using an 18mm Socket.



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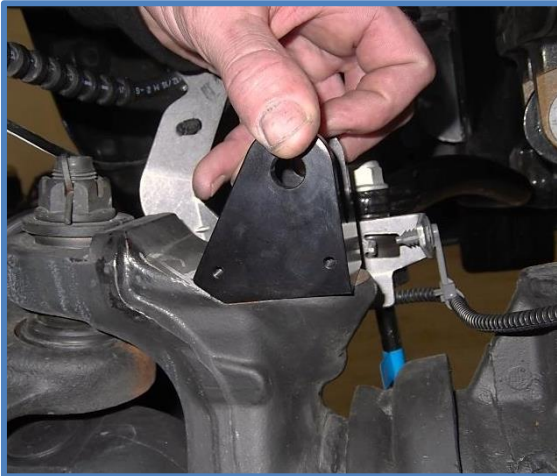
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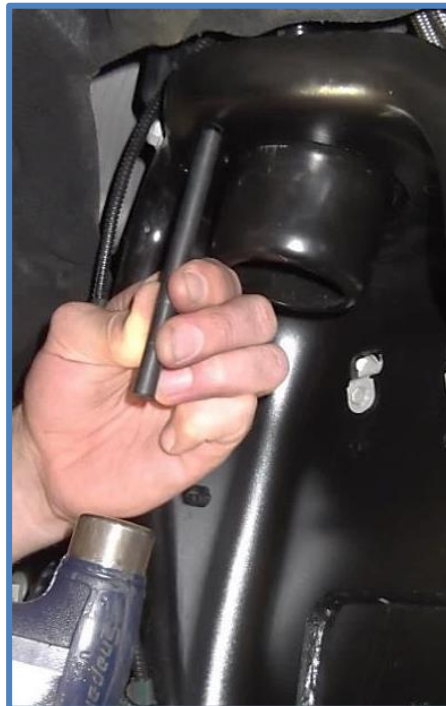
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9. Install the supplied lower mounting bracket to the axle where you just removed the factory coil mount. Use the provided 14mm bolt with washer and tighten using a 22mm socket.



10. Using the reservoir bracket as a template carefully mark the holes in the upper coil spring mount. Mark holes, then center punch each hole and recheck the alignment of marked holes with reservoir bracket.



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11. Use the center punch mark to drill a pilot hole starting with a smaller drill bit - 1/8 or 3/16. Double check your pilot holes with your template to make sure the hole pattern is lining up. Now finish drilling out holes using a 7/16" drill bit.



12. Cut the coil spring locating boss flush with the upper mount. Grind any protruding or sharp edges so the surface is completely flat. Paint the bare metal prior to installing shocks to prevent rusting.



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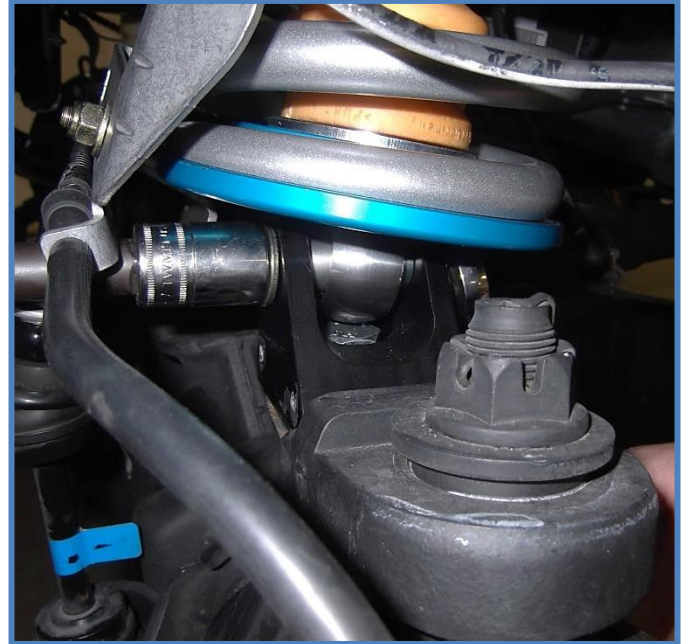
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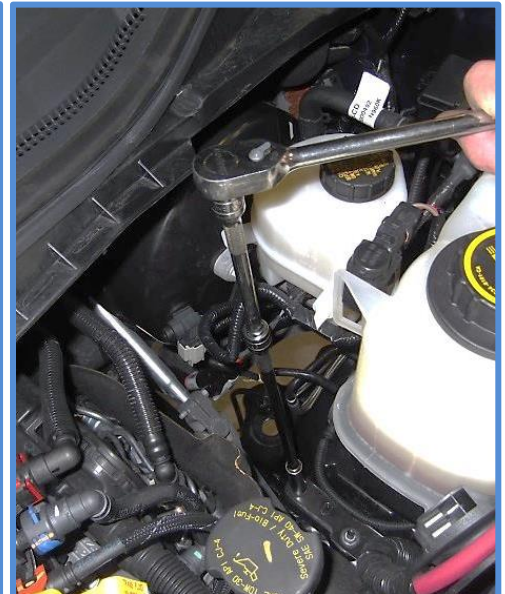
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13. Install King Coilover Shocks. Be aware the shocks are side specific, make sure you are installing the shocks on the proper side. Place lower rod end into the new lower mount, tilt shock forward to install the provided 1/2 x 3" bolt with washer and tilt shock back to install washer and nut and tighten.



14. On the left side of some vehicles you will need to move the brake proportioning unit to install the upper mounting bolts. First remove the bolt on the front side of the coil mount using a 13mm wrench/socket. Then find the two nuts located inside the engine compartment and just loosen those nuts to the end of the stud but do not remove. This should give you room to pry the brake unit up enough to install bolts.



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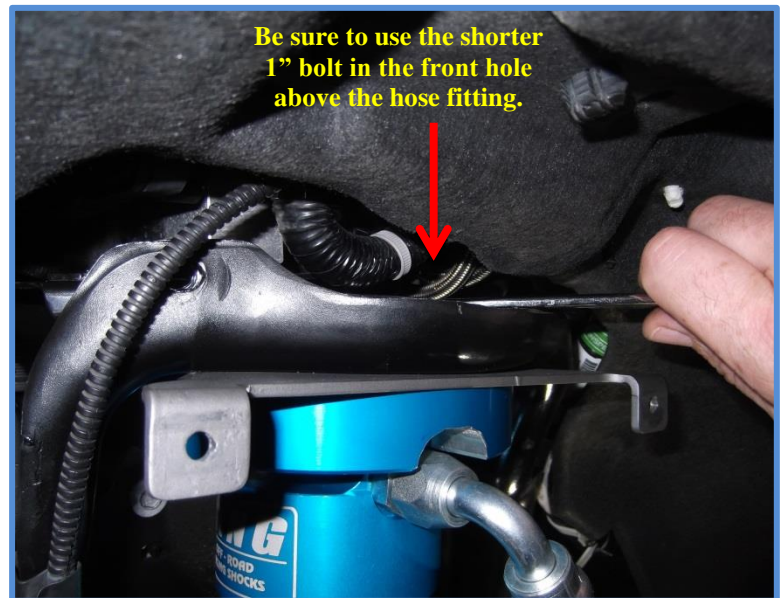
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15. Place the reservoir mount between the upper mounting plate of shock and upper mount on vehicle and slide the shock into position. Insert the provided 3/8 bolts (with heavy duty washers) through upper mount, reservoir bracket and thread into upper mounting plate on shock.



16. Install upper mounting bolts and tighten to 35 ft.lbs. using a 9/16 wrench/socket.



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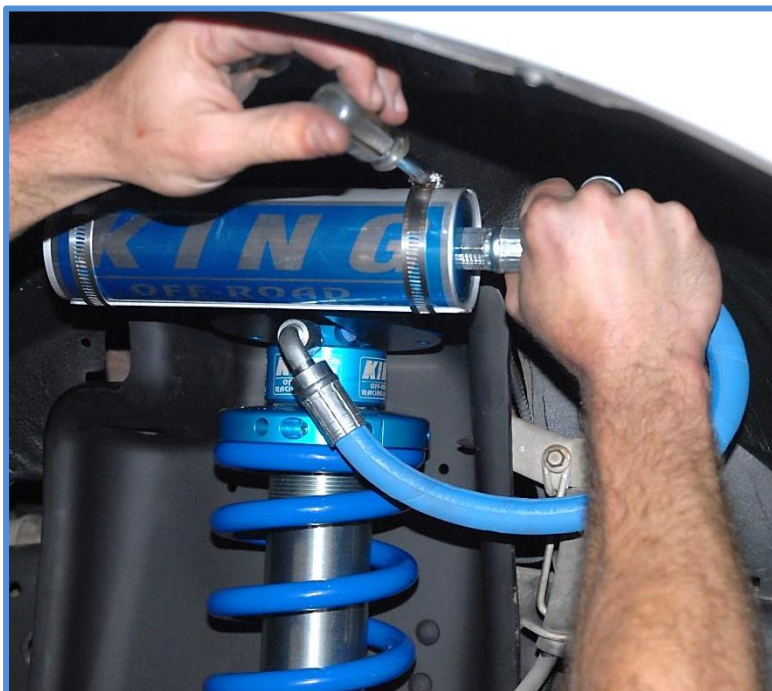
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17. Secure the brake unit. Replace the bolt on the front of coil mount and tighten the nuts in the engine compartment. (IF APPLICABLE)

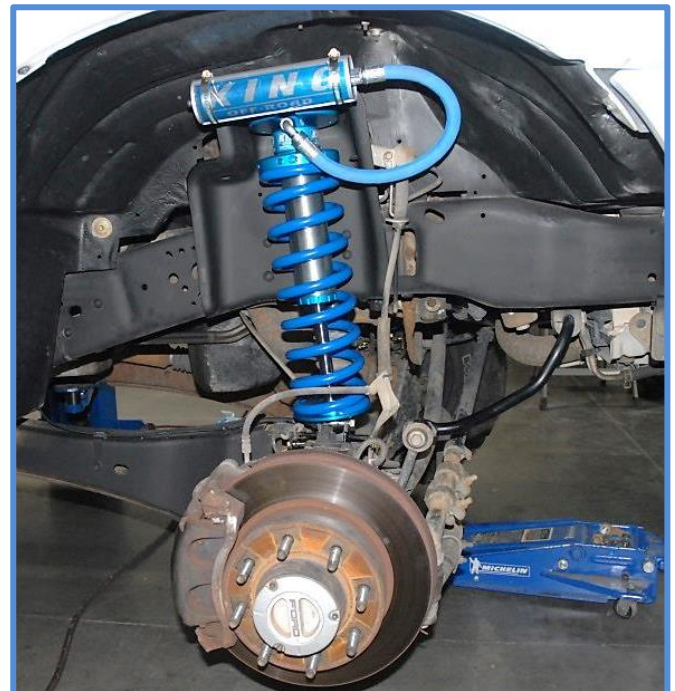


18. For 2.5 kits with standard reservoir, place the reservoir in the reservoir bracket and install the provided hose clamps. Center the reservoir in the cradle and twist the reservoir towards you to twist the hose in towards the wheel well and tighten the clamps.

2.5 Kit



2.5 Kit



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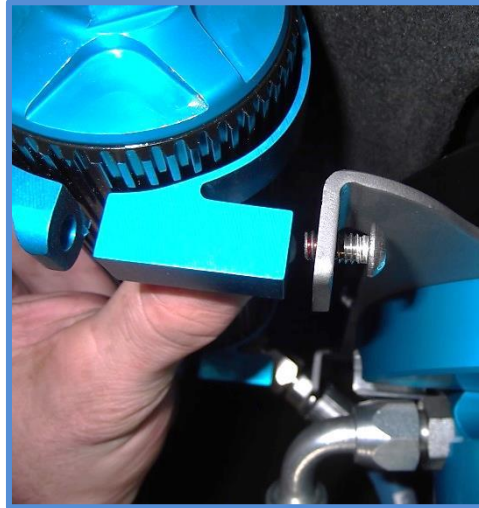




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19. For 3.0 kits or kits with finned reservoir, place the reservoir clamps on the reservoir. Mount the clamps to the bracket using the  $\frac{1}{4}$  x  $\frac{1}{2}$  button head cap screws included in the kit. Use red locktite and tighten with a  $\frac{5}{32}$  allen wrench.



20. Center reservoir in the bracket and insert the provided 1" socket head cap screws in the clamps and tighten with a  $\frac{3}{16}$  allen wrench to secure reservoir. Hose should be pointing back as shown below.

### 3.0 KIT WITH FINNED RESERVOIR



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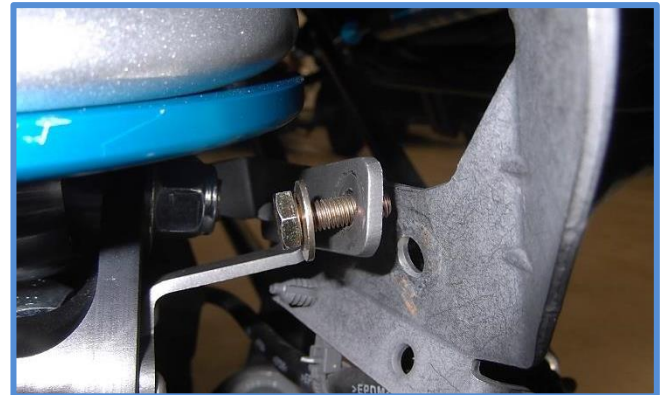
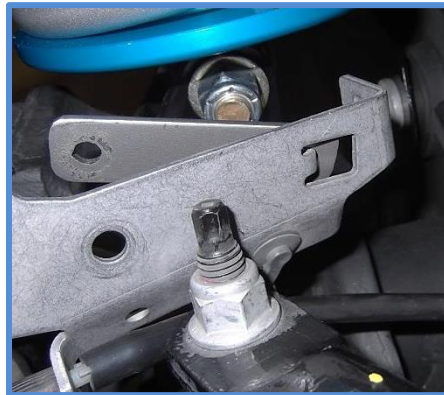
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21. Bolt the ABS/Brake line bracket to the lower mount. For newer trucks you will use one bracket in the front of the lower mount. For older vehicles you will use a bracket on each side of the lower mount. First mount the angled brackets to the front of the lower mount with the raised end facing out towards the tire. Use the 10-32 x 1/2" button head cap screws to attach the brackets to the lower mount and tighten with an 1/8 Allen wrench. For older vehicles that have lines running on both sides of the lower mount you will attach the remaining two brackets to the back side of lower mount using the provided 10-32 screws.



22. Attach the brake line to the previously installed brake line support by placing the tab in the inward hole and install the 1/4 x 3/4 bolt with washer in the outward hole making sure the head of bolt is on the same side as shock. Install washer and nut and tighten with 7/16 wrench and socket.



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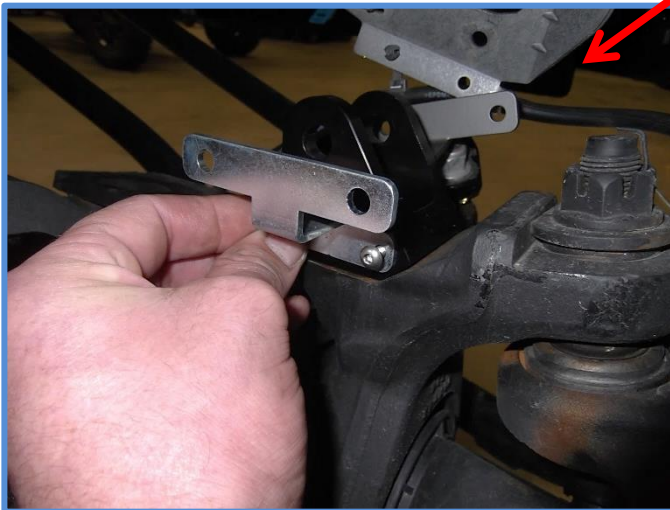


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23. For older vehicles with lines running on both sides of lower mount, use the remaining two brackets on the rear of the lower mount. Attach brackets with provided hardware and attach ABS line to the new support bracket using the provided  $\frac{1}{4}$  x  $\frac{3}{4}$  bolts.

**Photos are for reference only. Brackets must be attached after shock is installed.**



**DOUBLE CHECK ALL HARDWARE:**

Make sure everything is installed correctly and all hardware is tight before reinstalling tires. Install tires, remove jack stands and lower vehicle to the ground. Recheck all hardware and lug nuts after 100 miles and periodically after that as part of routine maintenance.

**Alignment is critical:**

A professional alignment must be performed before driving this vehicle at highway speeds. Do not attempt to drive your vehicle after this install without having the alignment readjusted to factory specs!

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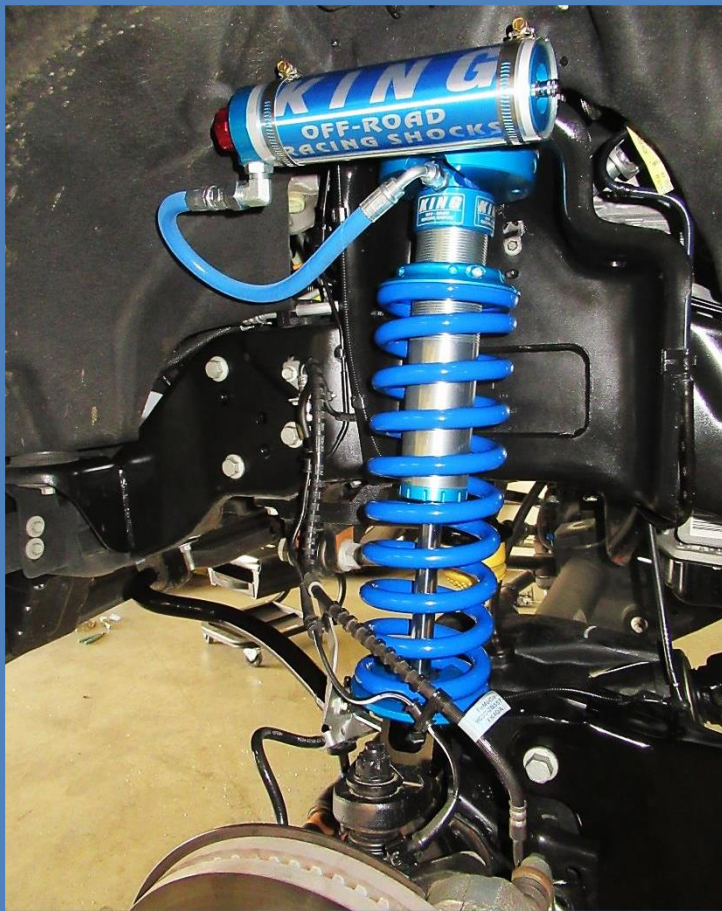


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2.5 Kit finished install. Hose faces towards front of vehicle.

3.0 Kit finished install. Hose faces towards rear of vehicle.



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