



Installation Instructions (Page 1)

2019+ Ford Ranger Raptor 2.5 IBP Front Coilover

King Shocks 12472 Edison Way Garden Grove, CA 92841
714-530-8701 www.kingshocks.com

Front Parts List:

- 2 – 2.5 IBP Front Coilovers (25700-429)
- 2 – Reservoir Brackets (25049-023)
- 1 – Hardware Kit (KH02-235)

Tools Required:

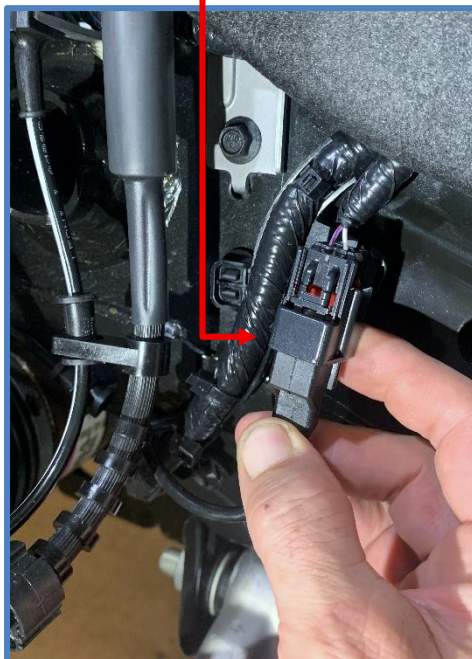
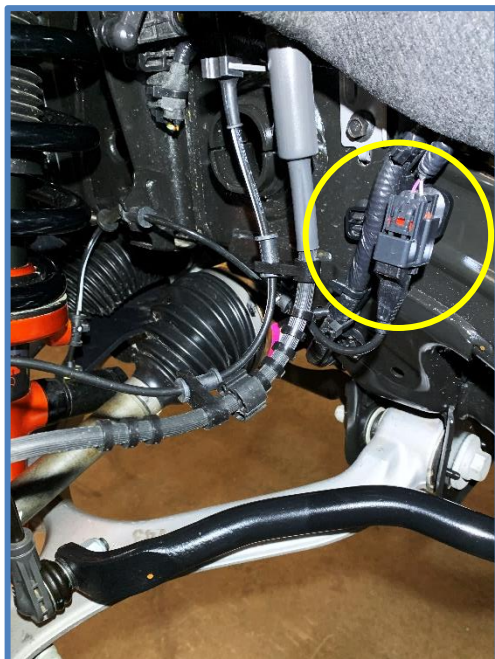
- Floor Jack/Jack Stands
- Metric Wrench/Socket Set
- Standard Wrench/Socket Set

2019 Ford Ranger Raptor
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. Disconnect the wire going to the shocks. Press the tab on the connector at the frame as shown below and unplug the shocks.



IMPORTANT: Read all instructions thoroughly from start to finish before beginning the install. Check parts list and make sure all parts are included in the kit. If the instructions are not properly followed severe frame, driveline and/or suspension damage may result. Check for frame and suspension damage prior to installation.

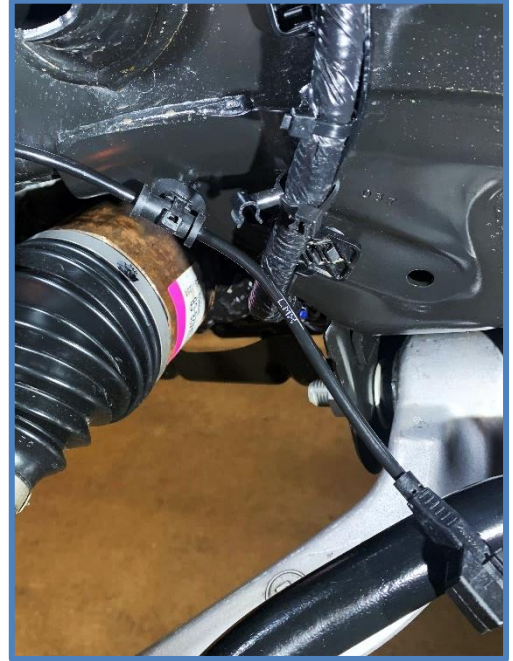
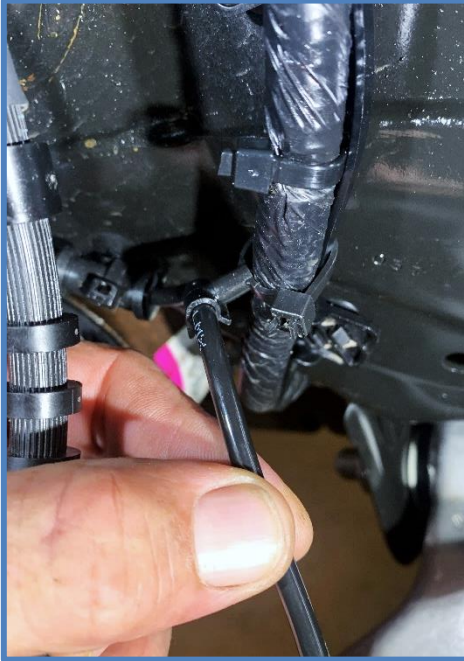
This kit does not require welding. Do not weld on any component. Welding may void the warranty and/or cause the product to fail. If any parts are missing, or for tech assistance; Contact King Off Road Racing Shocks: 714-530-8701 Most important after the install, Feel the difference and have fun.



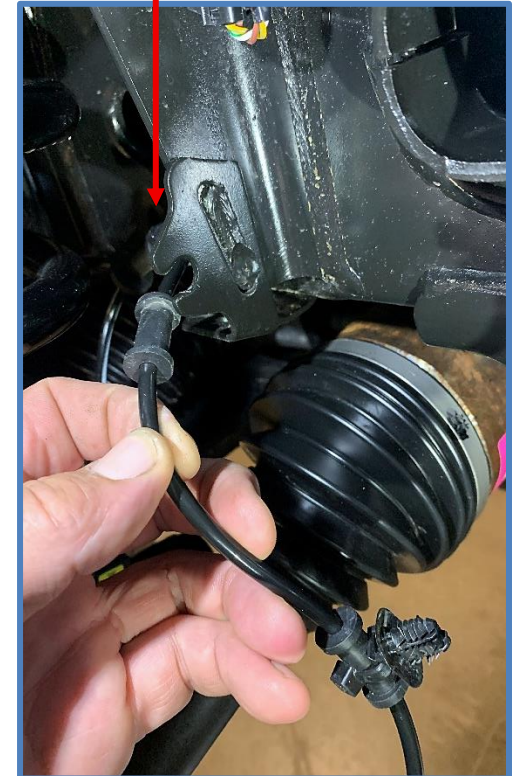
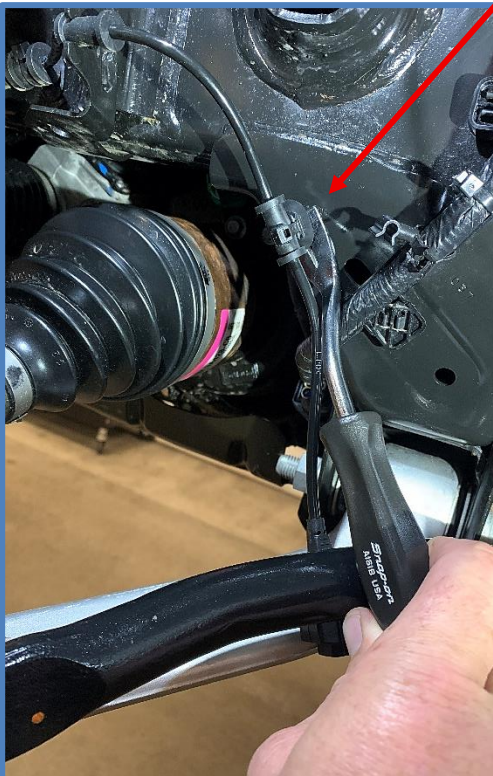
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2. Detach the wire from the harness and the frame – Unclip the wire from the wiring harness as shown below.



3. Use a pry tool to remove the cable clips from the frame. Unclip wire from frame.



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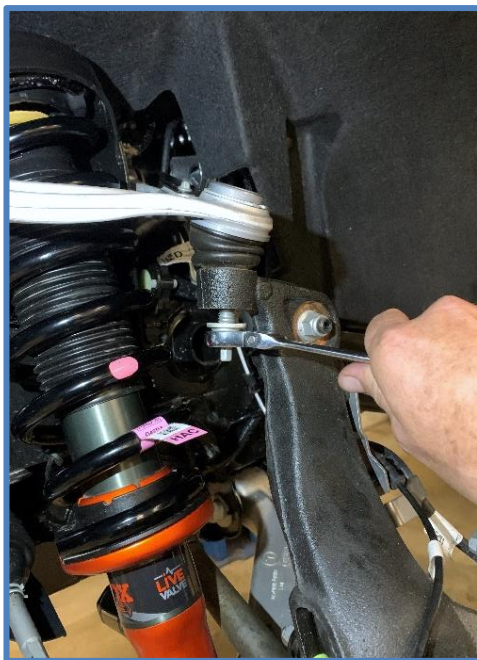
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4. Remove nut from the upper control arm ball joint using an 18mm wrench or socket. You may need to use an 8mm wrench to hold the stud. Separate ball joint from knuckle. Disconnect upper control arm.



5. Remove the lower mounting bolt using a 27mm socket, you may need a breaker bar to loosen the bolt.
(Note: You can leave bolt inserted enough to hold shock in place while removing upper nuts in next step.)



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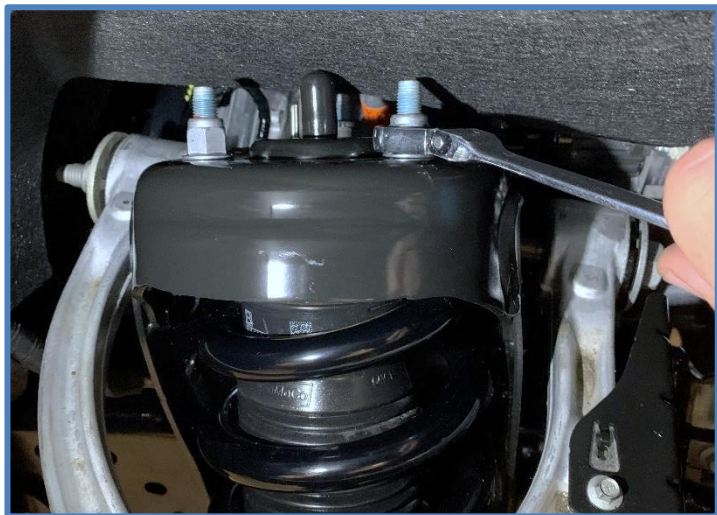
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6. Remove the three nuts from the upper mount using a 15mm wrench or socket. Make sure you are holding the shock or have the lower bolt installed when removing nuts.



7. **Remove shocks from vehicle** – Maneuver the bottom of the shock down through the lower control arm until you can tilt the top of the shock out of the upper mount, then pull the shock out of the lower mount and remove shock from vehicle.



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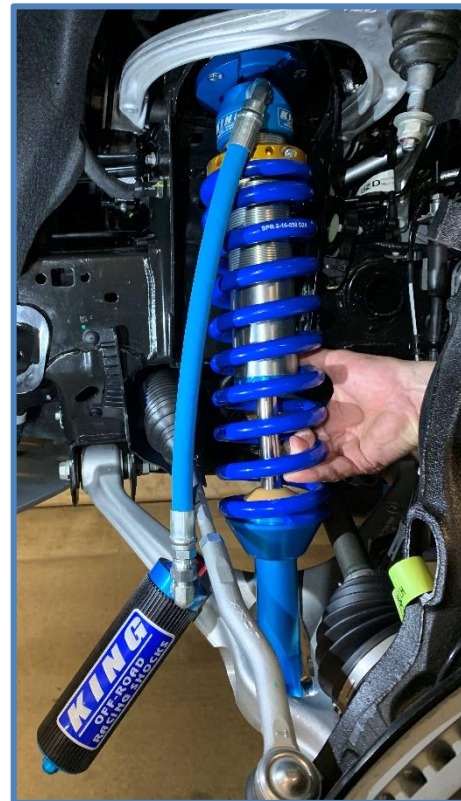
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8. **Install King Shocks** – Place the coilover in position on the vehicle by inserting the bottom of the shock into the lower control arm. Then, maneuver the top of the shock into the upper mount. Place the 3/8 Heavy Duty Washers (CW1701) and 3/8 Nuts (CN2711) on upper mounting studs and thread nuts onto studs by hand to hold shock in place but don't fully tighten yet. Be aware the shocks are side specific and can only be mounted on the designated side. Photos below show the left side. Place shocks in position on both sides of the vehicle before continuing to the following steps.



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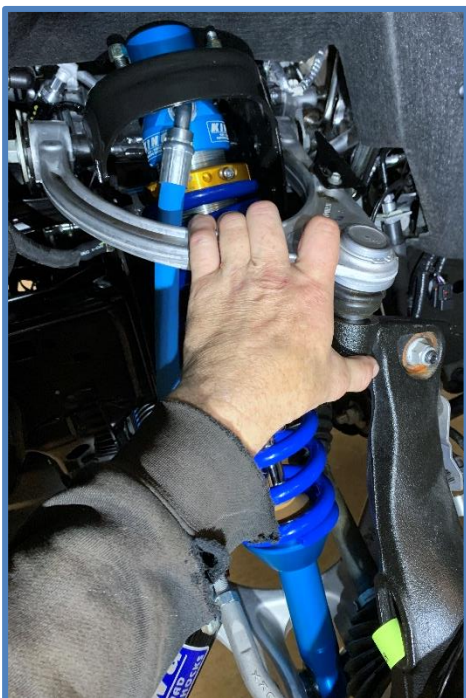
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9. Install factory bolt in lower mount. Place flag nut on bolt and thread bolt into nut to hold in place for now.



10. Reconnect upper control arm, tighten nut and torque to factory specs. (You may need an 8mm wrench to hold the stud)



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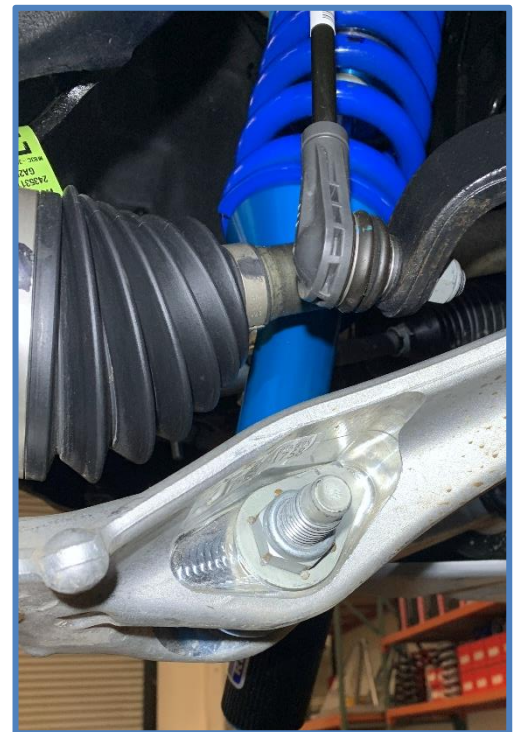
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11. Tighten the upper mounting nuts using a 9/16 wrench or socket and torque to 35 ft/lbs. Do not overtighten.



12. Tighten lower mounting bolts and torque to factory specs.



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13. **Install Reservoir Brackets** – First attach the reservoir clamps to the reservoir brackets as shown below. Install the 1/4 X 1/2" BHCS (CB2420) with red locktite and tighten using a 5/32 Hex Key. Be aware that the brackets will be side specific, clamps will attach to opposite sides of the bracket to create left and right.



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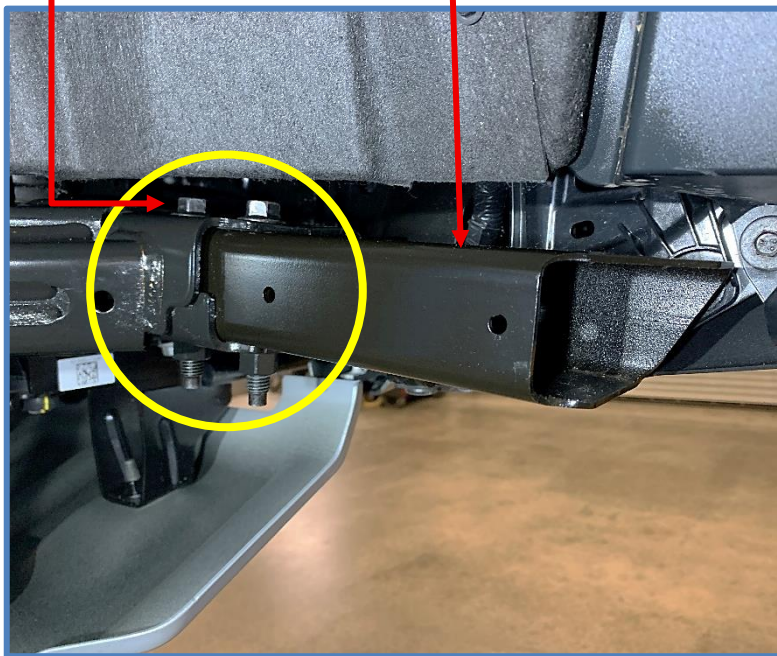
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14. Remove the factory bolts from the front crossmember using a 15mm wrench or socket. *(If you would like to remove the factory crossmember extensions, do so now).* Install the provided 12mm X 100mm bolts (CB3832) with washers (CW1001).



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15. Slide the reservoir into the reservoir clamps then place the bracket on the bolts you just installed as shown below. Use provided washers (CW1001) and 12mm Nylock nuts (CN3005) to secure bracket.



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16. Install the 1/4 X 1" bolts (CB1501) in the reservoir clamp, adjust reservoir position and tighten clamp using a 3/16 Hex Key.



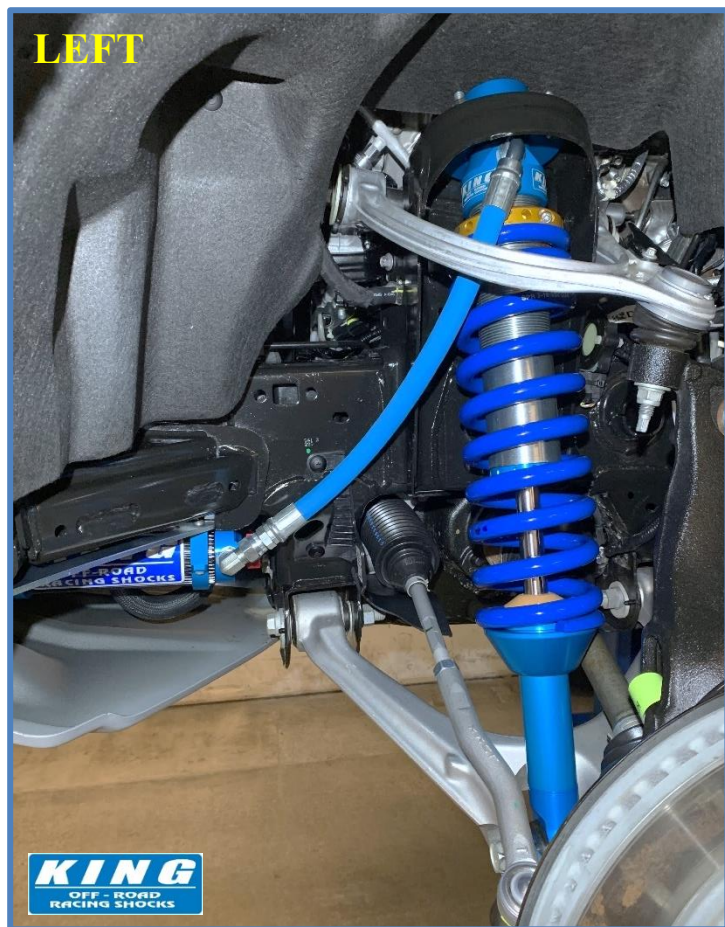
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DOUBLE CHECK ALL HARDWARE:

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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