



2019+ Ford Ranger (USA) 2.5 Front Coilover

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

Front Parts List:

- 2 – 2.5 Front Coilover Shocks (25001-386)
- 2 – Reservoir Brackets (25048-041/042)
- 1 – Hardware Kit (KH02-164)

Tools Required:

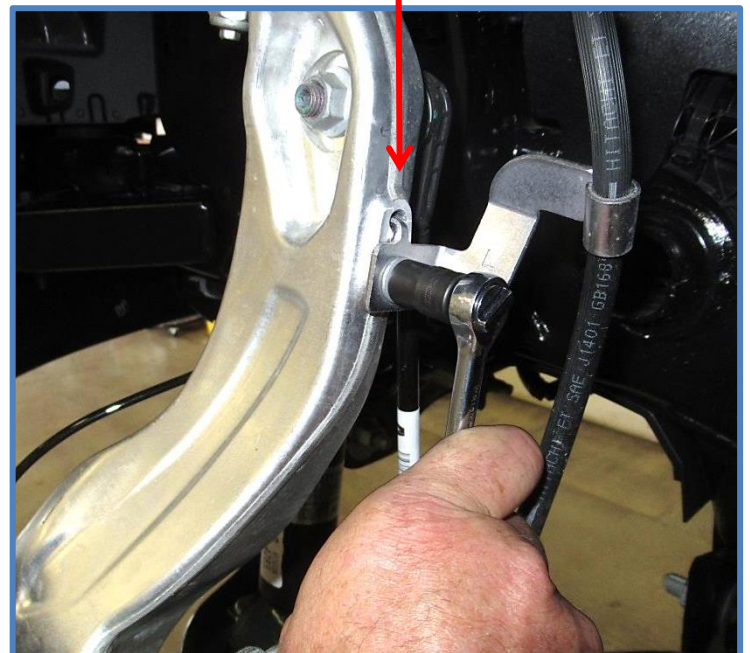
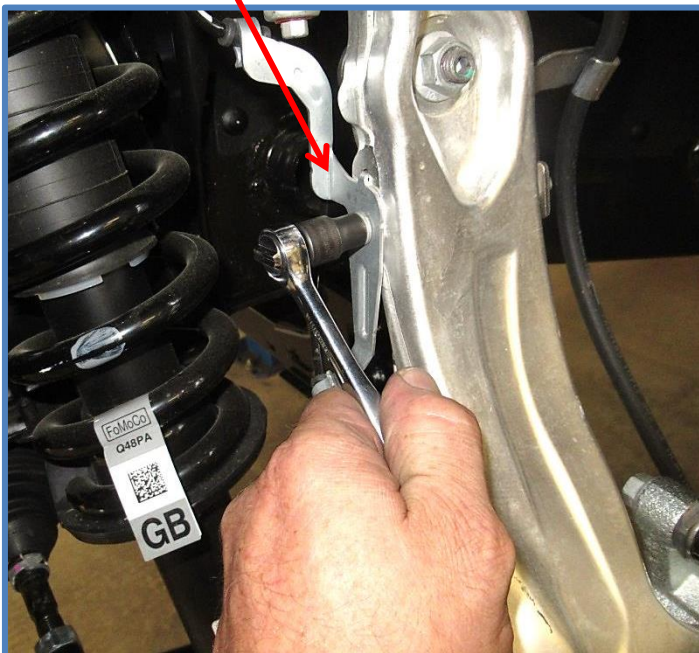
- Floor Jack/Jack Stands
- Metric Wrench/Socket Set
- Standard Wrench/Socket Set

2019 Ford Ranger (USA)
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. Unbolt the ABS and brake line brackets from the knuckle. Use an 8mm wrench or socket to remove the bolt for the ABS bracket and a 10mm wrench or socket to remove the bolt for the brake line bracket.



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.

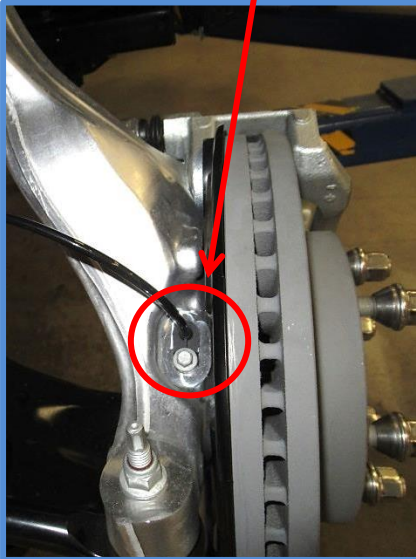
This kit does not require welding. Do not weld on any component. Welding may void the warranty and/or cause the product to fail. If any parts are missing, or for tech assistance; Contact King Off Road Racing Shocks: 714-530-8701 Most important after the install, Feel the difference and have fun.



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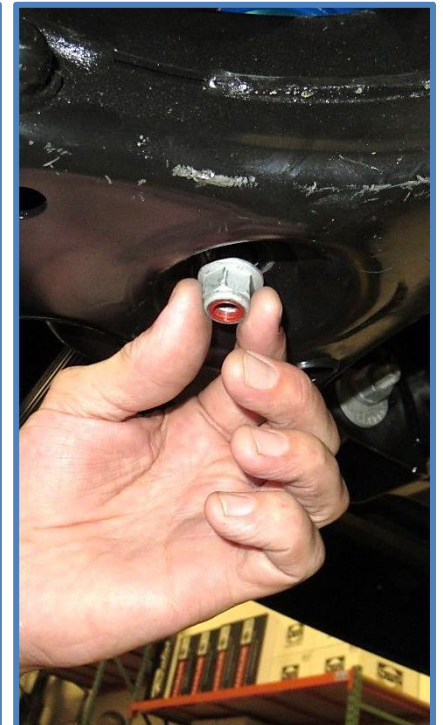
2. Remove the ABS sensor from the knuckle. Using an 8mm socket, remove the bolt and pull the sensor out of the knuckle.



3. Remove the upper mounting nuts using a 15mm wrench or socket.



4. Remove the lower mounting nuts using an 18mm wrench or socket.



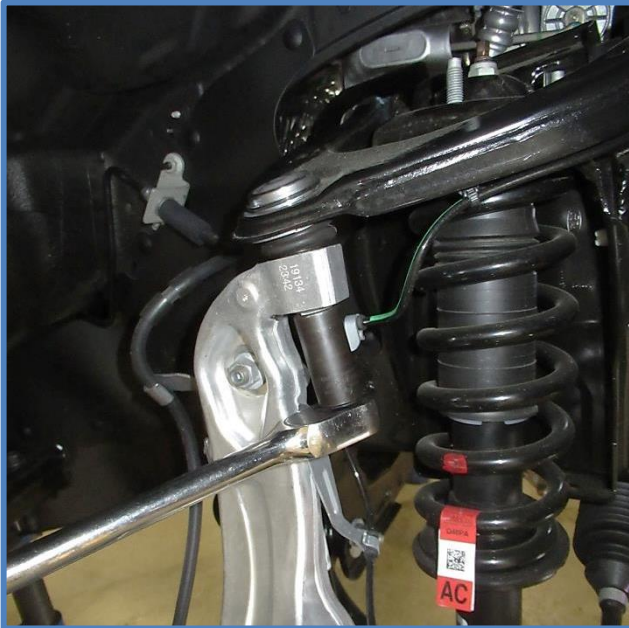
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5. Separate the upper control arm from the knuckle. Using an 18mm socket remove the nut for the control arm ball joint, then disconnect upper arm from knuckle.



6. Complete steps 1-5 on both sides of the vehicle, then remove shocks. Remove shocks by pushing down on the lower control arm while pulling the top of shock out of the upper mount then lift the shock out of lower control arm and remove from vehicle.



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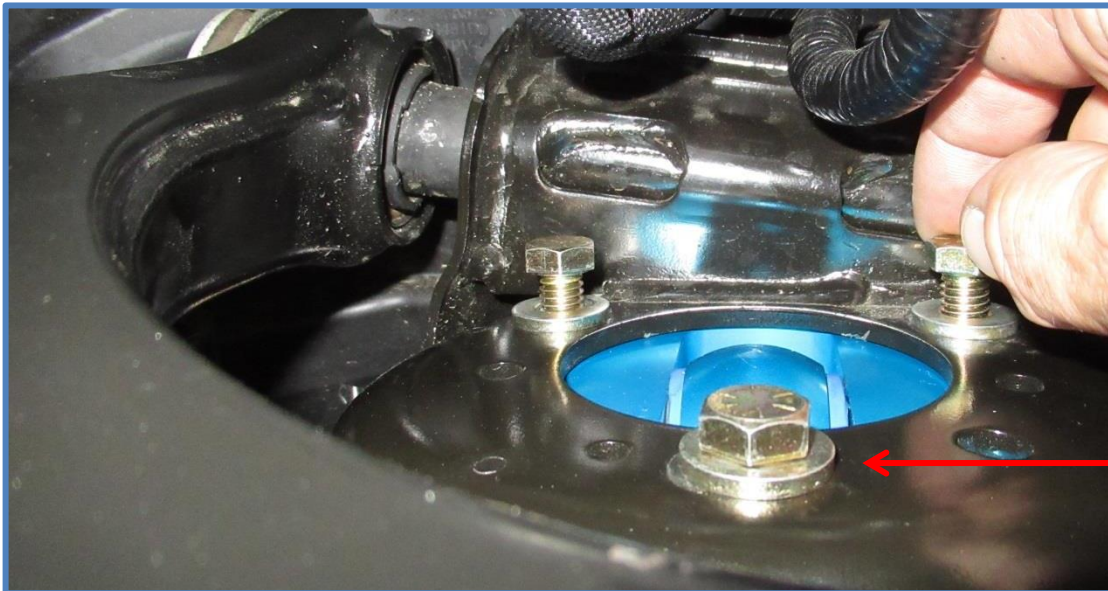
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7. Installing King Shocks – Shocks are side specific, make sure you are installing the shocks on the correct side. Hose and reservoir will be towards the front of the vehicle. Place the shock on the lower control arm then maneuver the top of the shock into the upper mount.



8. Install the provided 3/8" upper mounting bolts with HD washers (CW1701). Use the longer 3/8 X 1" bolts (CB4701) in the two holes on the back side of the upper mount. Use the shorter 3/8 X 3/4" bolt (CB4702) in the front hole above the hose fitting. Thread the bolts in to hold shock in place but do not tighten yet.



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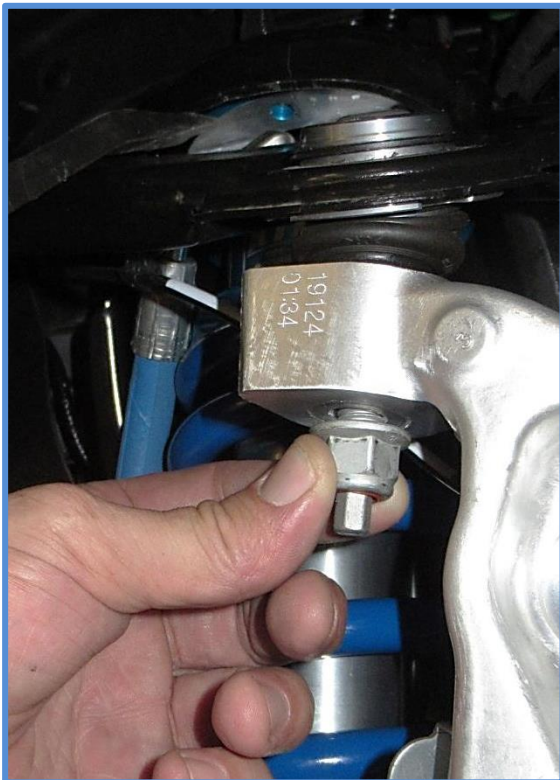
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9. Install the provided 12mm X 80mm bolt (CB3829) with washer (CW1001) through the lower mounting lug and lower control arm. Place the reducer sleeve over the bolt and then install the factory nut. Thread the nut onto the bolt but do not tighten yet.



10. Reconnect the upper control arm and tighten nut to factory specs. You may need to hold the stud with an 8mm wrench as shown below to keep the ball joint from spinning while tightening nut.



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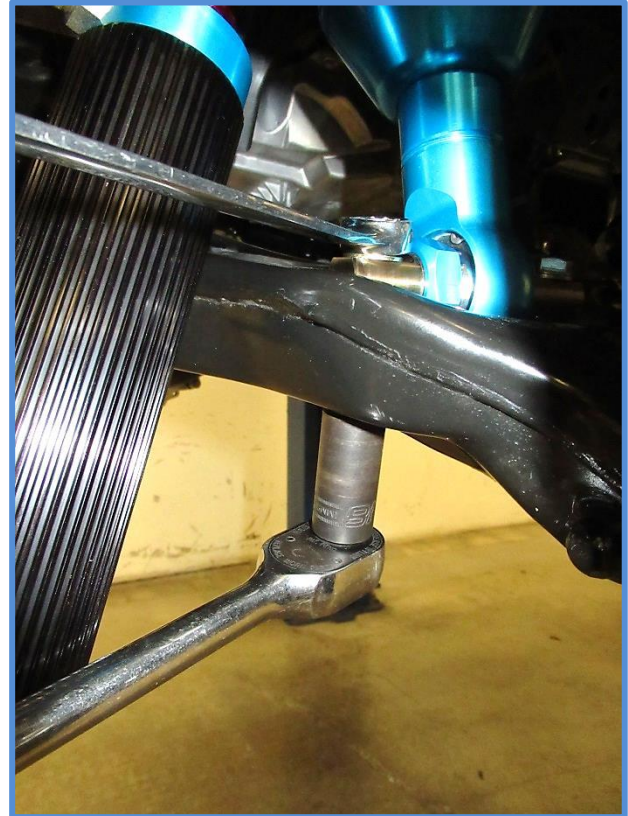
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11. Now you can torque the upper and lower mounting bolts. Torque the upper bolts to 35 ft/lbs. using a 9/16 socket. Torque lower bolts to 90 ft/lbs. with an 18mm socket on the nut & 19mm wrench on the bolt head.



12. Install the ABS sensor, ABS bracket and brake line bracket.



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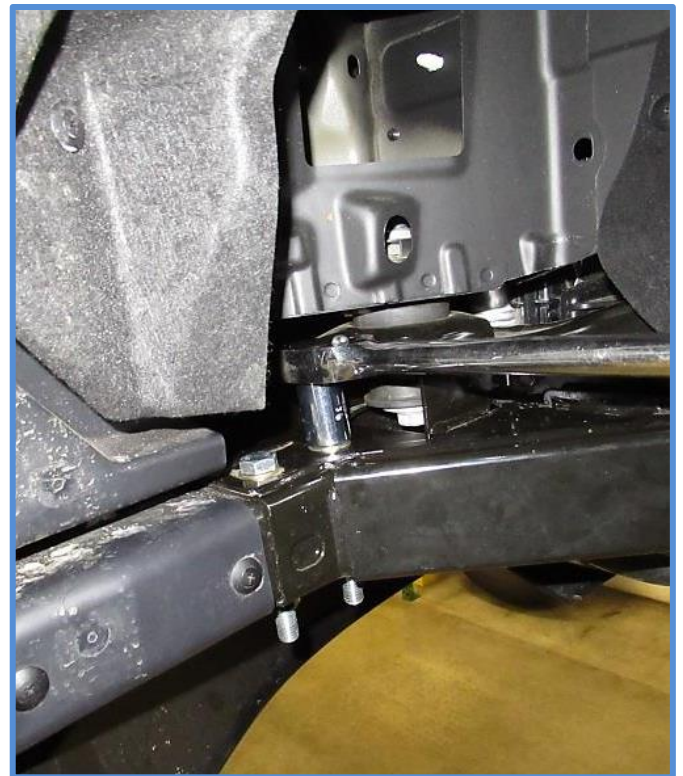
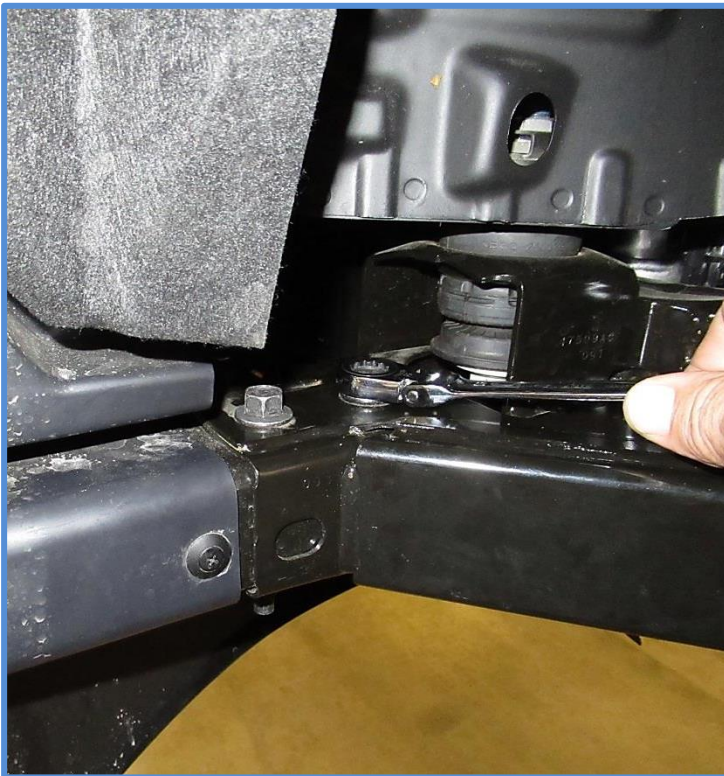
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13. Mounting reservoirs – First attach the reservoir clamps to the reservoir brackets. Use the 1/4 X 1/2” BHCS (CB2420) to attach the reservoir clamps.



14. Remove the factory bolts from the front cross member. Install the provided longer 12mm X 100mm bolts (CB3832) with washers (CW1001) as shown below.



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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 washers (CW1001) and 12mm Nylock nuts (CN3005) to secure bracket.



16. Install the 1/4 X 1" bolts (CB1501) in the reservoir clamps and tighten using a 3/16 Allen wrench.



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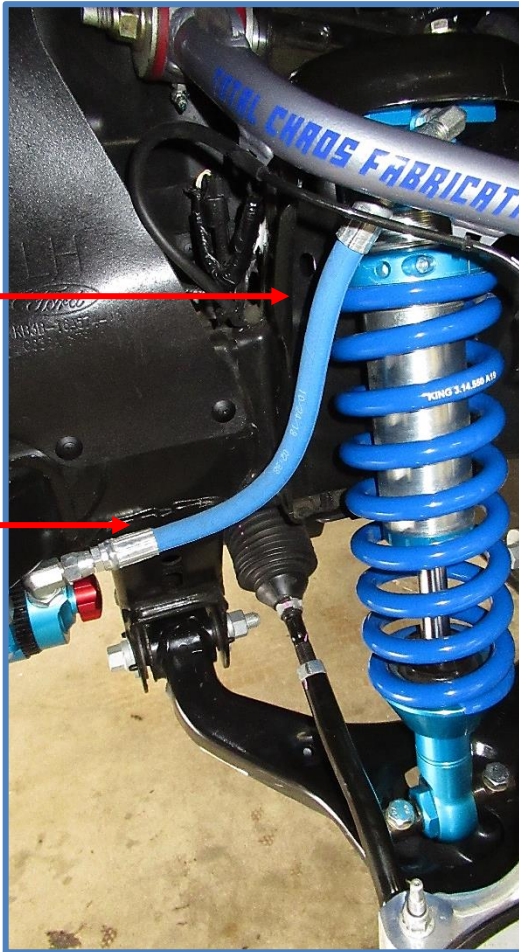


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Final install should look similar to photos below. Make sure fitting and hose are tight to frame and hose loops in towards frame as shown. Make sure hose is not interfering with any moving parts. Check tire clearance before driving vehicle. Adjust hose/reservoir if necessary:

DO NOT ATTEMPT TO ADJUST HOSE/FITTINGS IF UNFAMILIAR WITH WORKING ON SHOCKS!



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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