



FORD F-150 RAPTOR SVT 2010-2014

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Step 1 — Installing the new Elka front shocks



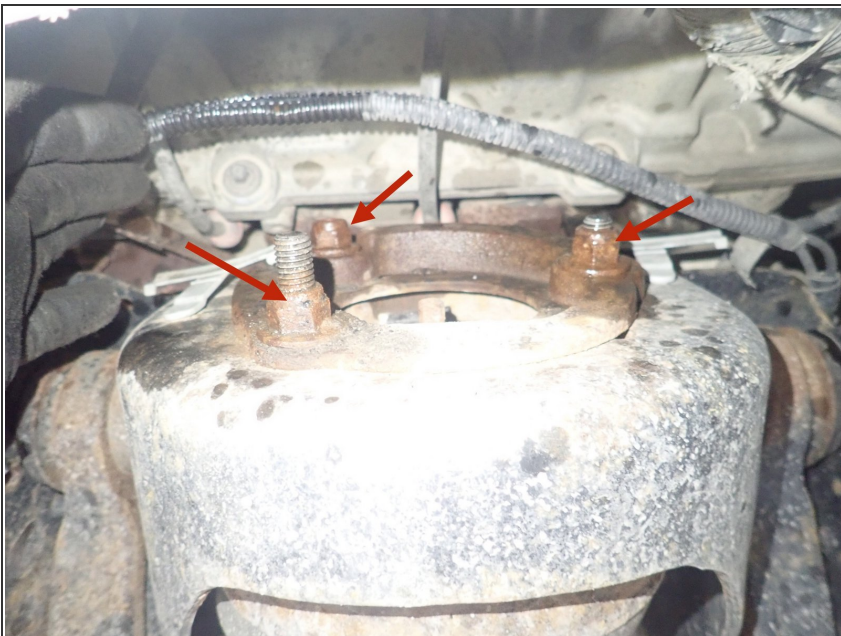
- Lift the vehicle off the ground, then remove the front wheels.
- Remove the bolt that holds the brake line on each side to ensure that it will not be damaged and stretched during installation.
- Remove the sway-bar link on both sides to allow the lower arms to temporarily move separately.

Step 2 — Installing the front shocks (continued)



- Separate the upper control arms from the steering knuckle.
- Separate the tie rod end from the steering knuckle.
- Remove the lower shock nuts.

Step 3 — Installing the front shocks (continued)



- Remove the 3 upper shock nuts, except for the central nut.
- Remove the stock shocks.

Step 4 — Installing the front shocks (continued)



- To install the Elka shocks, you have to use oem lower bolts and the provided upper bolts. Hoses must face the front of vehicle as shown by yellow arrow, and longer lower spacer must face the rear of vehicle as shown by red arrow. (right side shown).
- Reservoir bracket should be installed on top of upper shock mount as shown using 2 out of the three upper bolts.

Step 5 — Installing the front shocks (continued)



- Apply thread locker, then torque the 3 upper bolts to 35 Ft-Lb, and the lower bolts to 210 Ft-Lb.
- Sit the reservoir centered into the bracket clamps, then place the reservoir in such a way as to place the hose properly. BE CAREFUL TO NOT OVERBEND THE HOSE OR CREATE RUBBING ON FRAME OR UCA.
- When the reservoir is placed properly, apply thread locker on the clamp bolts and torque them at 10 Ft-Lb.

Step 6 — Installing the front shocks (continued)



- Reassemble the knuckle with the upper control arm. Torque the upper control arm nut to 70 Ft-Lb.
- Reassemble the tie rod end, then torque the nut to 70 Ft-Lb.
- Reassemble the sway bar link, then torque the nut to 40 Ft-Lb.
- Reinstall the brake line bolts.
- **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.**

Step 7 — Installing the new Elka rear shocks



- Lift the vehicle off the ground, then remove the oem shocks.
- Both rear Elka shocks are the same, they must be installed with the piggyback reservoir facing up and reservoir facing REAR of vehicle as shown. (right side shown)
- **IMPORTANT NOTE:** It's normal that the shocks must be compressed to be installed in place.
- Sit the vehicle on the ground, then torque all shock bolts at 80 Ft-Lb.
- Installation complete.