

2015-2025 ROUSH F-150 PERFORMANCE SUSPENSION SYSTEM

INSTALLATION INSTRUCTIONS

P/N: 422341



ROUSH[®]
P E R F O R M A N C E

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2015-2025 Roush F-150 Performance Suspension System Installation Instructions

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Application: 2015-2025 Ford F-150 (4X4 ONLY / KIT NOT COMPATIBLE WITH LIGHTNING, TREMOR, POWER BOOST, ACTIVE SUSPENSION OR PAYLOAD MONITORING SUSPENSION)

Important Notes:

- Before installing your ROUSH Performance Product, please read the installation manual and verify that all items are present. If you are missing hardware or have any questions, please contact ROUSH Performance at 1-800-59-ROUSH.

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PACKING LIST

Description	Part Number	Quantity
COIL OVER - FRONT ASSY	FS00061177	2
NUT - M10 x 1.5 HEX FLANGE	FS00061222	6
DAMPER - REAR SUSPENSION	FS00061178	2
RETAIL DOCUMENT KIT	RETAILDOC	1

EQUIPMENT AND SUPPLIES REQUIRED

- Floor Jack and Jack Stands or Hydraulic Lift
- Impact Wrench
- Floor Jack
- Pry Bar
- Ball Joint Puller
- Air Hammer
- Loctite 242 (Blue Loctite)
- Torque Wrench
- 21 mm socket
- 19 mm socket
- 18 mm socket
- 10 mm socket
- 8 mm socket

If you are missing any items, please call us toll free at 1-800-59-ROUSH.

LIMIT OF LIABILITY STATEMENT

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. ROUSH Performance Products (RPP) reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

SAFETY PRECAUTIONS



CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS and WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION!

Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation manual carefully before starting the installation.

- Always wear safety glasses for eye protection.
- Place ignition switch in the OFF position.
- Always apply the parking brake when working on a vehicle.
- Block the front and rear tire surface to prevent unexpected vehicle movement.
- If working with a lift, always consult vehicle manual for correct lifting specifications.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around the fuel system.
- Use chemicals and cleaners in well-ventilated areas.
- Batteries produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or flammable substances to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can get caught in rotating parts or scratch surface finishes.
- Allow the engine, cooling system, brakes and exhaust to cool before working on a vehicle.

WORK SAFELY!

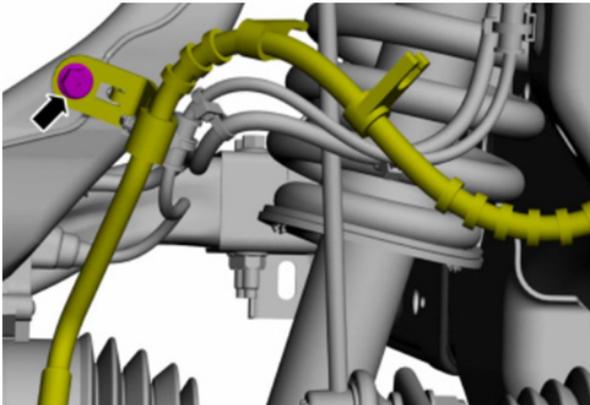
Perform this installation on a good clean level surface for maximum safety and with the engine turned off.

Front Coilovers - Removal and Install

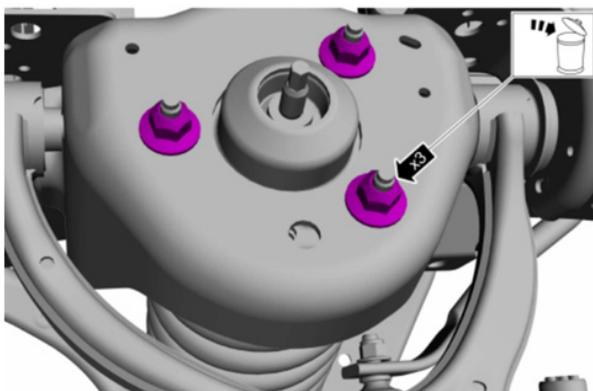
1. Begin by jacking up the vehicle using a Floor Jack and Jack Stands or Hydraulic Lift and removing the driver front side wheel using 21 mm deep socket and an impact wrench, save takeoff parts for re-install.



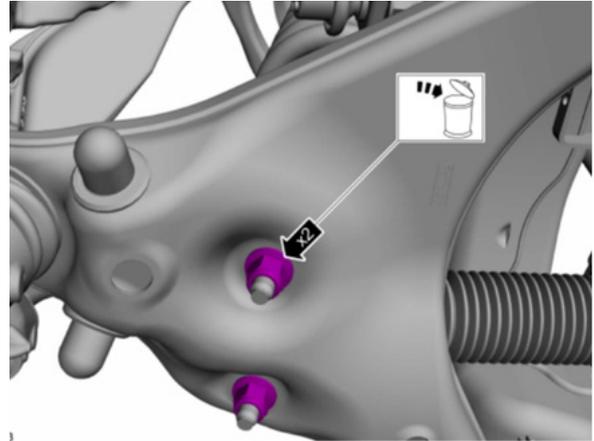
2. Remove x1 Nut securing the ABS bracket using a 10 mm socket wrench, keep for re-install.



3. Remove x3 nuts securing the shock and spring assembly using a 18mm socket wrench. Discard nuts.

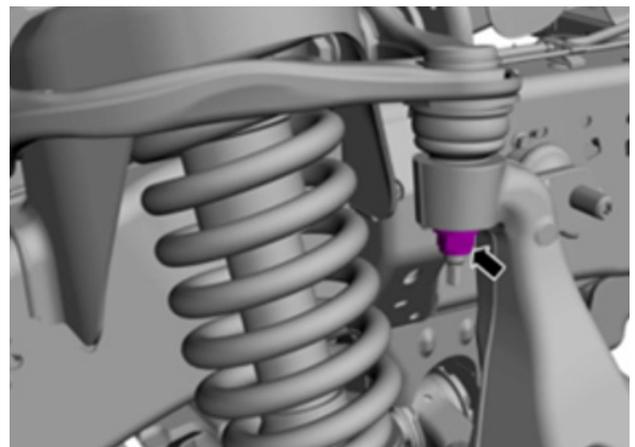
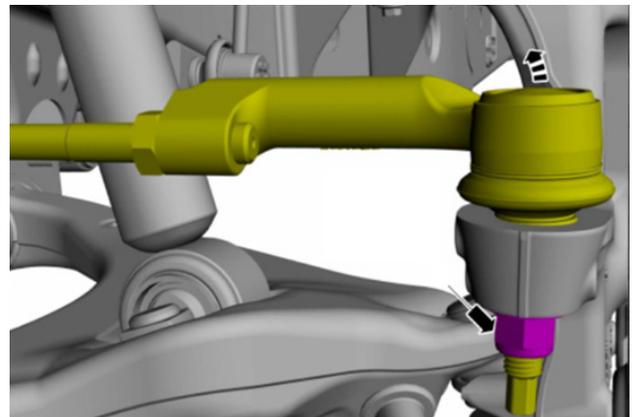


4. Remove x2 nuts from bottom of spring assembly and use air hammer w/ flat tipped bit to remove bolts using 18mm socket wrench. Discard nuts and bolts.



5. Remove x1 lower tie rod nut using 18 mm socket, then carefully remove x1 upper ball joint nut *(Keep parts for re-install). Lower the wheel knuckle slowly and remove OEM shock and spring assembly.

Note: wheel knuckle may drop if ball joint nut is loosened too quickly.

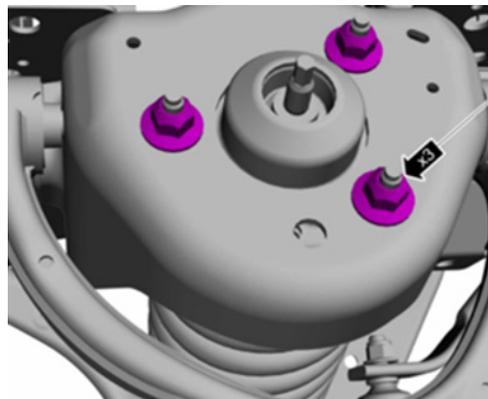
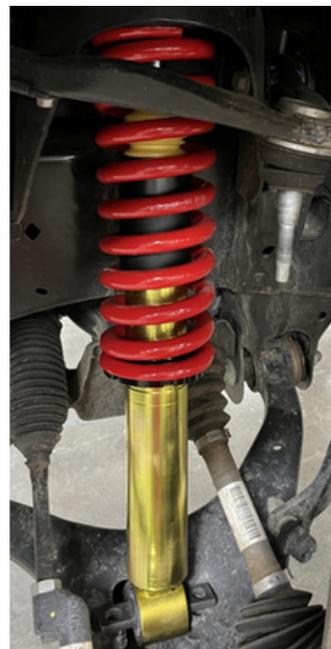


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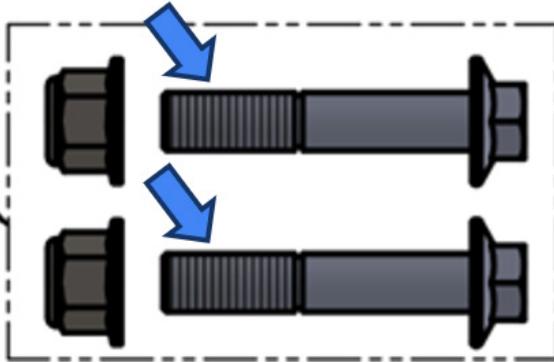


6. Unpack coilover assembly and included hardware. Locate 3x M10 hex nut (FS00061222) and 1x COIL OVER - FRONT SUSPENSION kit (FS00061177). Note: coilovers are bidirectional. Apply Loctite 242 (Blue Loctite) on the mounting studs as shown.

7. Position coilover (FS00061177) into place for install. Begin installing the 3 nuts (FS00061222) from step 6 onto the studs to hold coilover in place (DO NOT TIGHTEN NUTS).



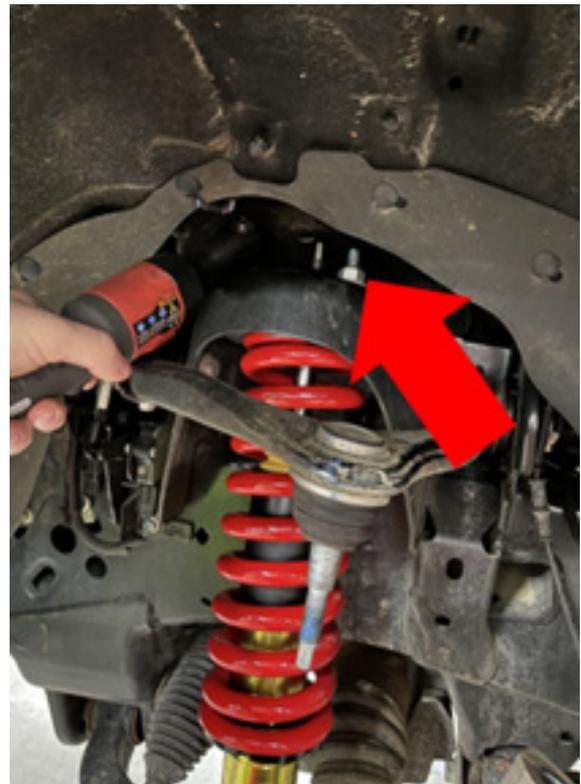
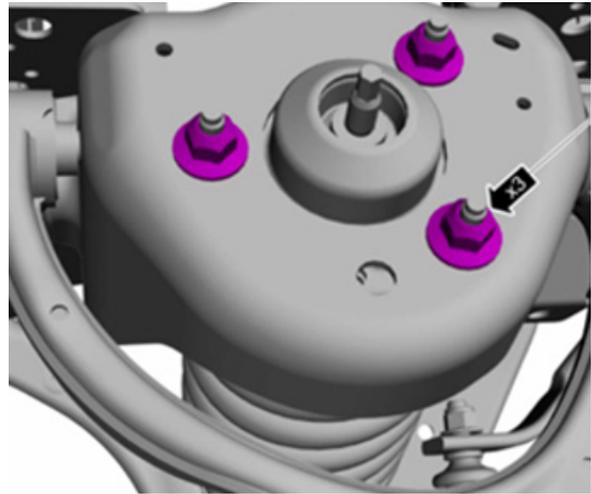
8. Apply Loctite 242 (Blue Loctite) on the threads of the bolts (included hardware) as shown below.



9. Install x2 bolts (same bolts from the last step) and x2 nuts (included hardware) using a 18 mm socket and a 18 mm wrench. NOTE: Only tighten the nuts and bolts finger tight at this stage.



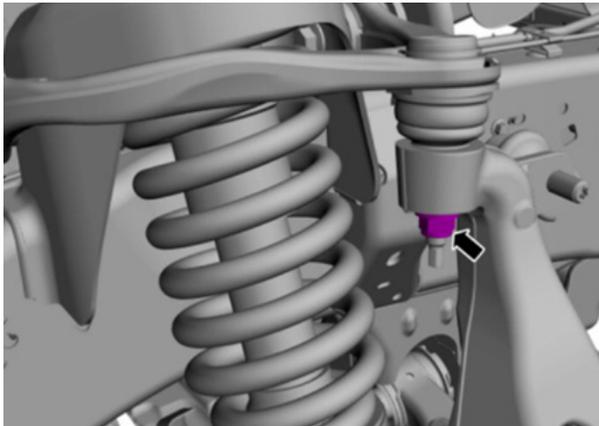
10. Install x3 upper coilover nuts (FS00061222) onto vehicle using 18 mm socket and Torque them to 70 Nm.



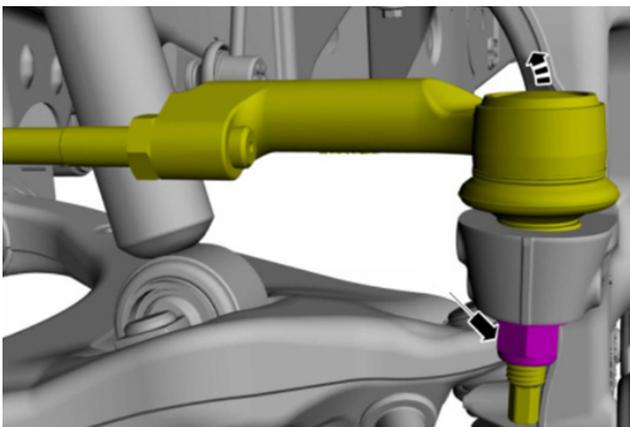
11. Apply blue loctite (Loctite 242) on the threads and re-install ABS bracket with nut (takeoff parts from step 2) using 10 mm socket, and Torque to 30 Nm.



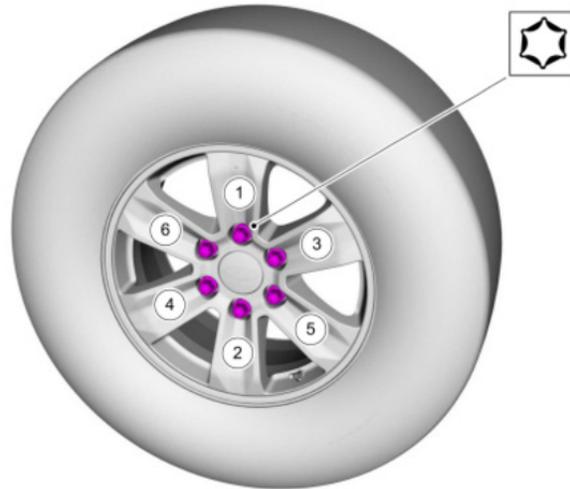
12. Apply blue loctite (Loctite 242) on the threads and re-install x1 upper ball joint OEM nut (takeoff part from step 5) using 18 mm socket. NOTE: Only tighten the nut finger tight at this stage.



13. Apply Blue Loctite (Loctite 242) on the threads and re-install x1 lower Tie Rod OEM nut (takeoff part from step 5) using 21 mm socket. NOTE: Only tighten the nut finger tight at this stage.



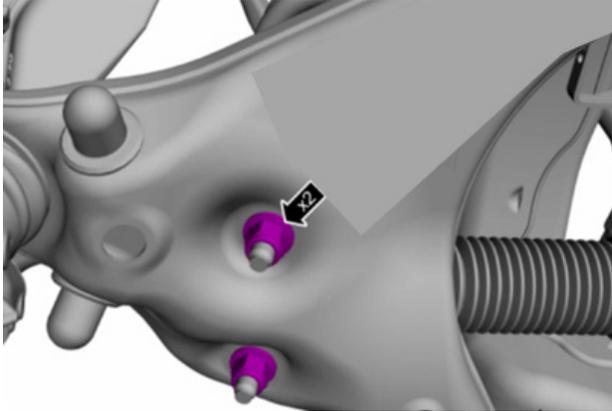
14. Install the driver front side wheel onto vehicle using the takeoff wheel lug nuts (Qty. 6 per wheel) with 21 mm deep socket and an impact wrench. When all wheel lug nuts are tighten, lower the vehicle to the ground. Once vehicle is on the ground, torque wheel nuts to 150 lb.ft (204 Nm) by following the star/cross patterns as shown below. (Reverse of step 1).



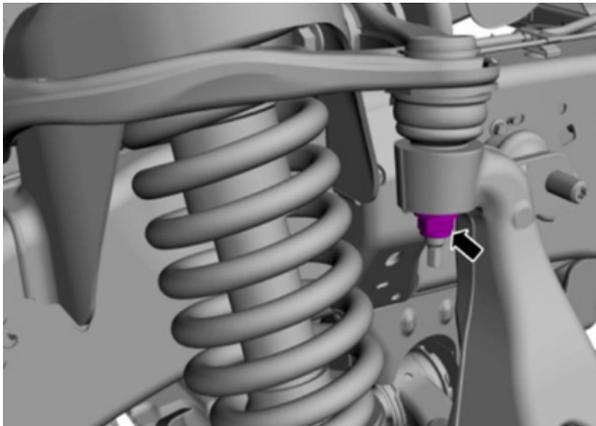
Vehicle Front Coilover Assembly

15. Once vehicle is on the ground, Torque the following nuts and bolts:

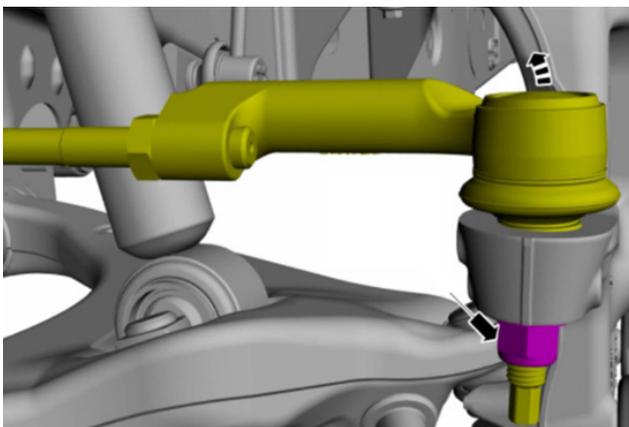
- Torque x2 nuts to 90 Nm from bottom of coilovers assembly using 18 mm socket torque wrench. (Refer to step 9).



- Torque x1 upper ball joint OEM nut to 63 Nm using 18 mm socket torque wrench. (Refer to step 12).



- Torque x1 lower Tie Rod OEM nut to 90 Nm using 21 mm socket torque wrench. (Refer to step 13).



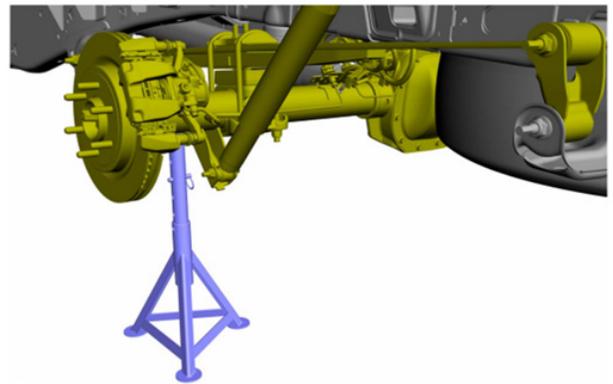
16. Repeat steps 1-15 for the passenger front side.

Rear Dampers - Removal and Install

1. Begin by jacking up the vehicle using a Floor Jack and Jack Stands or Hydraulic Lift and removing the rear wheels (Qty. 2) using 21 mm deep socket and an impact wrench, save takeoff parts for re-install.



2. Starting with the driver rear side, Support Rear Axle with jack stand to attach rear dampers as shown below.



3. Remove the upper and lower damper bolts using 18 mm socket wrench (from the rear damper). Save fasteners for reuse and remove and discard damper. NOTE: A J-nut is used on the upper LH side only.



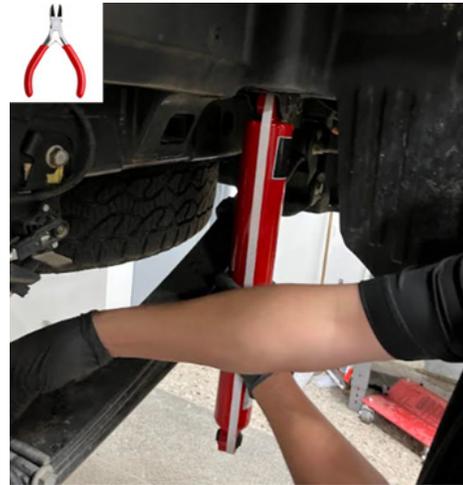
Continue with the previous step



4. Position damper x1 (FS00061178) into damper location for install (same damper location as the last step). Remove white cord strapping. Note: Make sure the Roush logo is facing out as shown below.



Continue with the previous step



5. Fully seat shock into upper shock mount shown with the roush logo facing outwards. Apply blue loctite (Loctite 242) to the bolt. Install takeoff bolt and shock retainer nut using 18 mm socket and Torque to 90 Nm. NOTE: A J-nut is used on the upper LH side only.

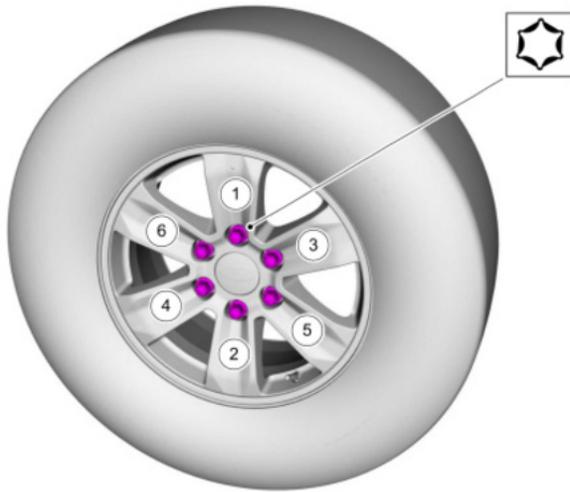


6. Fully seat shock in to lower shock mount shown. Apply blue loctite (Loctite 242) and install takeoff bolt and nut using 18 mm socket through shock lower mount, Torque to 90 Nm.



7. Repeat steps 1-6 for the passenger rear side.

8. Install the rear wheels (Qty. 2) using the takeoff wheel lug nuts (Qty. 6 per wheel) with 21 mm deep socket and an impact wrench. Once vehicle is on the ground, torque wheel nuts to 150 lb.ft (204 Nm) by following the star/cross patterns as shown below.



Vehicle Rear Damper Assembly

Final Checks

1. Start the vehicle and take a test drive, make sure nothing is rattling, and no warning lights appear on the instrument cluster. Note: If there is warning lights, use Ford's diagnostic software FDRS to scan vehicle and follow Ford procedures to investigate and clear the code.



2. Align vehicle after kit installation using a certified vehicle alignment machine.

Note: It is highly recommended to go to a local tire/wheel shop for this process, failure to do so will expedite vehicle components wear and tear.



Congratulations! You have completed installation of the 2015-2025 Roush F-150 Performance Suspension System.

To register your Roush product, go to: <https://support.roushperformance.com/s/article/ROUSH-Performance-Warranty-Information>

