

# Roush Super Duty Suspension Installation Manual

## 422308 (R-1820-5B450)



Application:

2017-2024 Ford F-250 Duty

Important Notes:

Before installing your ROUSH Performance Product(s), read through the entire installation procedure and check to make sure all items are present. Contact ROUSH Customer Service at 1-800-59-ROUSH, weekdays from 9:00 AM to 5:00 PM EST, with any questions regarding fit, missing parts or instructions that are unclear to you. Please note that the graphics in this kit were shipped in a manner to prevent damage during handling.

Please open and lay the graphics out flat for storage if this vehicle ornamentation kit is not going to be installed within 1 week of purchase. Failure to follow this suggestion may result in the graphics taking a set in their shipping position which could lead to damage over extended periods of time. (Graphics could take a permanent crease or begin to separate from their carrier).

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## PACKING LIST FOR SUPER DUTY SUSPENSION KIT 422308

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

Part Number	Description	Qty
11552335	M8X1.25X55 HEX BOLT	2
11552365	M8 WASHER - 16MM OD	2
1820-JNCASM	SPACER ASSEMBLY	2
9285	FRONT SPRING LIFT KIT SET OF 2 - 1.5 IN	1
986-24-097	REAR SHOCK - FOX 2.0	2
986-24-098	FRONT SHOCK - FOX 2.0	2
986-24-099	FOX - STEERING STABILIZER	1

## EQUIPMENT AND SUPPLIES REQUIRED

- Red Loctite 262 and 271
- Metric and Standard Wrench Sets
- 1/4" 3/8", and 1/2" Drive Torque Wrenches
- Cordless Impact Wrench
- Cordless Ratchet
- 1/4" and 3/8" Drive Ratchets with Extension

## 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 Parts 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 the ignition switch in the OFF position.
- Always apply the parking brake when working on the vehicle.
- Block the front and rear tire surfaces to prevent unexpected vehicle movement.
- 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 only in well-ventilated areas.
- Batteries can produce explosive hydrogen gas which can cause personal injury. Do not allow flames, sparks, or flammable sources to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can be caught in rotating or moving parts.

## FRONT SHOCK ABSORBER AND TIRE REPLACEMENT

1. Loosen (8) lug nuts on all 4 wheels with 21mm socket wrench.



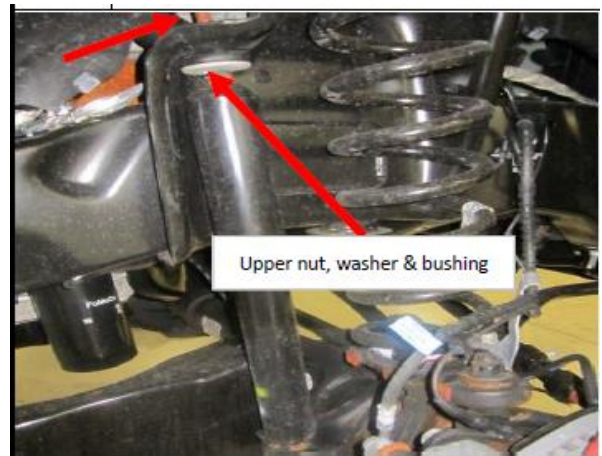
2. Raise vehicle.



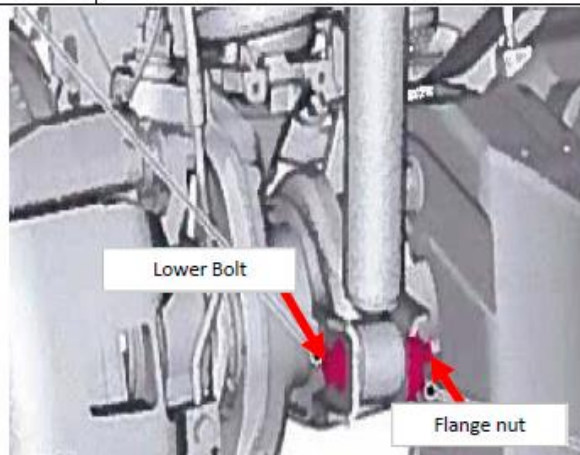
3. Remove front wheels.



4. Remove upper shock nut, washer, and bushing on both sides of vehicle with 21 mm socket wrench. Discard hardware.



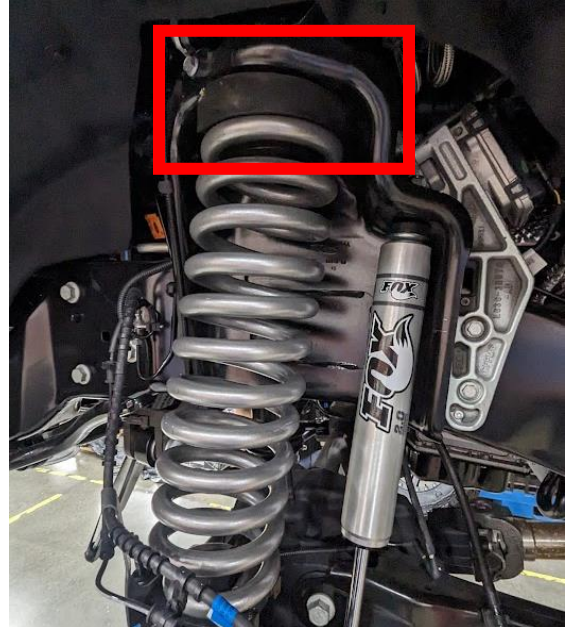
5. Remove lower bolt and flange nut on both sides of vehicle with 18mm socket wrench.



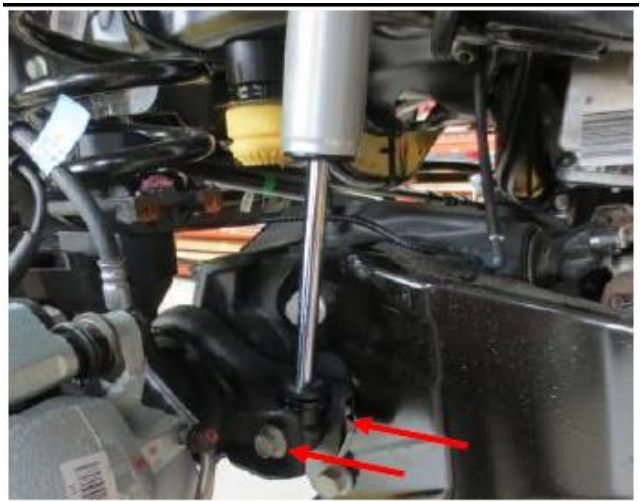
6. Remove shock absorbers and springs from vehicle.



7. Transfer over upper rubber isolator and install new springs (9285). Be sure to align the spring locators on upper and lower mounts.



8. Install new shocks (986-24-098) and fasten lower bolts and flange nuts with 18mm socket wrench. Torque to 150 Nm.



9. Install upper shock nuts with 21mm socket wrench and torque to 61 Nm.

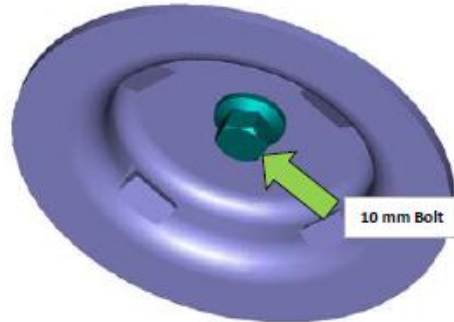


### JOUNCE BUMPER MODIFICATION AND INSTALLATION

10. Locate Hardware Kit R1822-JNCASM.  
11. Remove Front Jounce Bumper by pulling out from jounce bumper cup. Apply twisting motion to ease removal.



12. Use 10mm socket to remove factory mount from the frame. NOTE: Set aside Jounce Cup for Re-work.



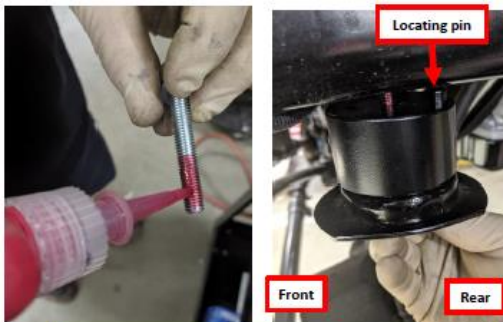
13. Trim Jounce Bumper as shown.



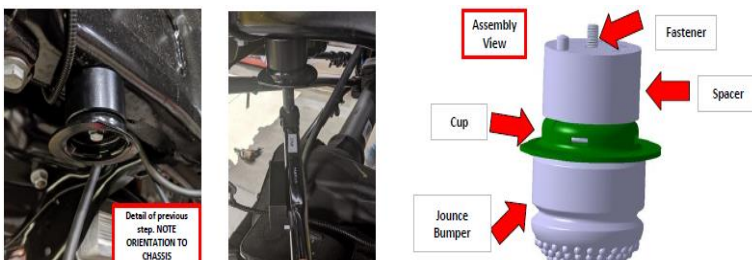
- Assemble jounce bumper with modified jounce cup and spacer. (NOTE: 1818 will be etched into the part to identify it as the one to use)



- Apply Loctite 271 to M8 bolt before install. Install assembly on frame so cut flange faces outside of vehicle (pin on spacer will locate to rear).



- Tighten fastener to secure Front Jounce bumper assembly with Roush-modified cup. Torque fastener to 37 Nm and apply UV Mark. Reinstall rubber jounce bumper by pushing onto cup. Assembly will look as shown below.



## STEERING STABILIZER

17. Remove original manufacturers stabilizer. Use 18mm socket to loosen drivers side nut and 15mm socket for passenger side nut (Store 15mm fasteners for later use).



18. Sub assemble fastener set provided in the steering stabilizer kit 986-24-099. Long end of the bolt goes through stabilizer. Tighten rear nut using 19mm socket.



19. Apply Loctite 262 on both the bolts and loosely install the steering stabilizer on linkage on the driver side. Adjust the axle and install on the passenger side.



20. Torque bolts to 90 Nm for 19mm bolt and 80 Nm for 15mm bolt.





21. Cut the cord for stabilizer to expand.



## REAR SHOCK ABSORBER AND TIRE REPLACEMENT

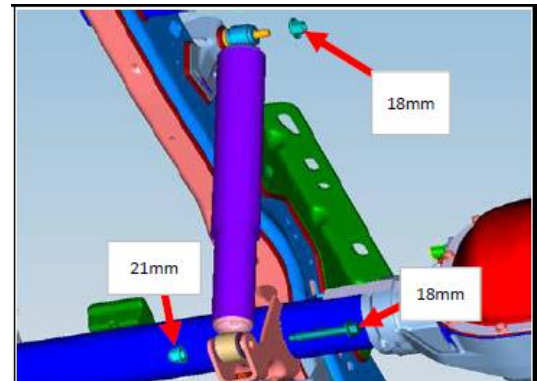
22. If not already done, loosen (8) lug nuts on each rear wheel with 21mm impact socket.



23. If vehicle is on the ground, raise vehicle and remove rear wheels.



24. Remove the upper nut with 18mm socket wrench. Remove lower nut and bolt with 18mm and 21mm socket wrenches. Remove rear shocks from vehicle.



25. Install new shocks (986-24-097) and fasten nut at upper location with 18mm socket wrench. Torque to 70 Nm.



26. Fasten shocks at lower location with nut and bolt and 18mm and 21mm socket wrenches. Torque to 150 Nm.



27. Install new wheel (1820-6EN325 X4) and fasten with (8) lug nuts. Torque to 224 Nm.

