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# Rough Country 10038 Installation Instructions

Air Spring Kit for Ford F-250 Super Duty 4WD (2023-2025)

Part number: 10038

trailfortress.com/rear-air-spring-kit-ford-f250-and-f350-4wd-rough-country-10038

Scan for fitment, price and install help

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ROUGH COUNTRY
SUSPENSION SYSTEMS®

# FORD 2017-22 F-250/F-350 Rear Air Spring Kit

**Thank you for choosing Rough Country for all your vehicle needs.**

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

## ⚠NOTICE Airbags will not increase the maximum load capacity.

**Kit Contents:**
Pass Side Upper Bracket x1
Dr Side Upper Bracket x1
Lower Bracket Tops x2
Lower Brackets x2
Inflation Valves x2
Lower Strap x2
90° Fittings x2
Air Bags x2
Air Line x20ft

**Tools Needed:**
14mm Socket/Wrench
15mm Socket/Wrench
9/16" Socket/Wrench
7/32" Allen Wrench

**Hardware Included:**
3/8" x 1-1/4" Flat Head Bolts x4
3/8" x 3/4" Flat Head Bolts x4
3/8" x 4" Carriage Bolts x4
3/8" x 1" Hex Bolts x12
3/8" Flat Washers x12
3/8" Lock Washers x4
3/8" Flange Nuts x16
3/8" Clip Nuts x4
Zip Ties x6



⚠NOTICE

**Min/Max psi for Airbags:**

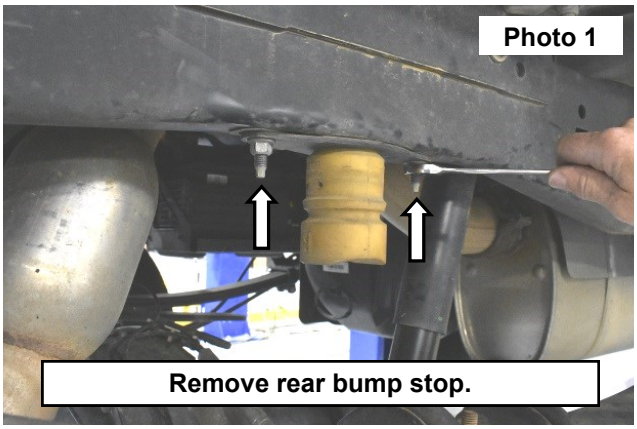
5-100 psi

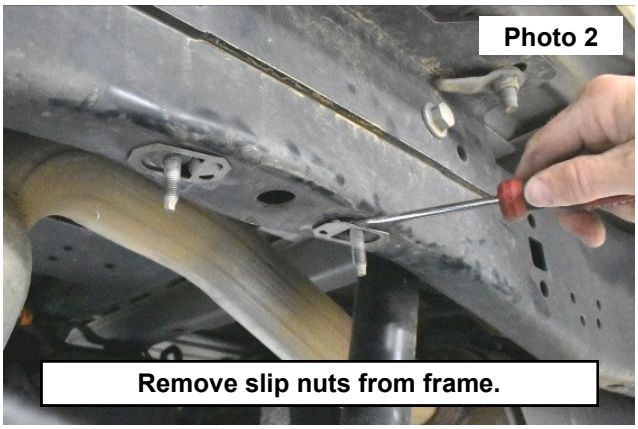
**Torque Specs:**

| Size | Grade 5 | Grade 8 | Size | Class 8.8 | Class 10.9 |
|---|---|---|---|---|---|
| 5/16" | 15 ft/lbs | 20ft/lbs | 6MM | 5ft/lbs | 9ft/lbs |
| 3/8" | 30 ft/lbs | 35ft/lbs | 8MM | 18ft/lbs | 23ft/lbs |
| 7/16" | 45 ft/lbs | 60ft/lbs | 10MM | 32ft/lbs | 45ft/lbs |
| 1/2" | 65 ft/lbs | 90ft/lbs | 12MM | 55ft/lbs | 75ft/lbs |
| 9/16" | 95 ft/lbs | 130ft/lbs | 14MM | 85ft/lbs | 120ft/lbs |
| 5/8" | 135ft/lbs | 175ft/lbs | 16MM | 130ft/lbs | 165ft/lbs |
| 3/4" | 185ft/lbs | 280ft/lbs | 18MM | 170ft/lbs | 240ft/lbs |

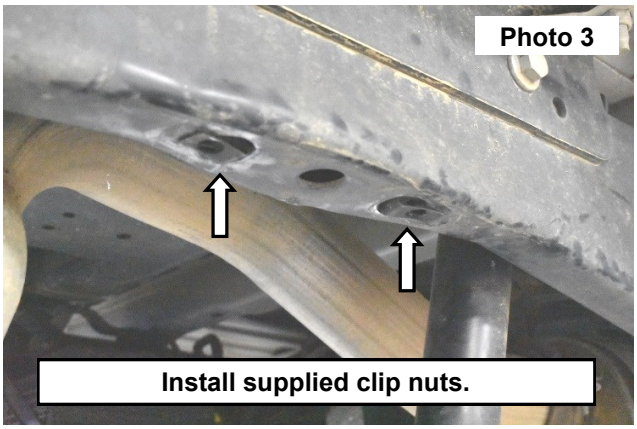
## INSTALLATION INSTRUCTIONS

1. Jack up the rear of the vehicle and place on jack stands. Remove the rear wheels.
2. Remove the rear bump stop using a 15mm socket/wrench. **See Photo 1**.
3. Remove the clip nuts from the frame. **See Photo 2**.




4. Install the supplied clip nuts in the stock location. **NOTE: Be sure to fully seat the clip nuts**. **See Photo 3**.
5. Install the 90° fitting in the top of the air bag using a 14mm wrench. **See Photo 4**.

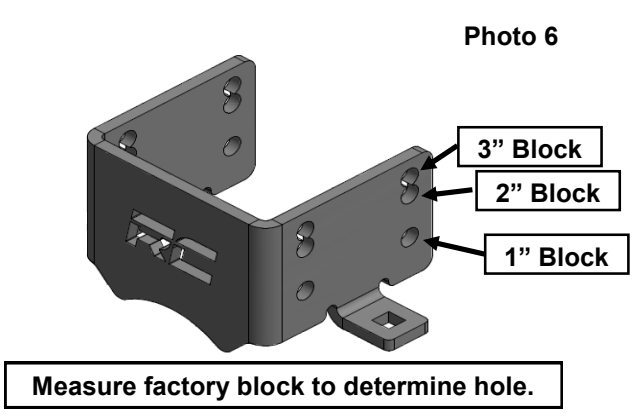




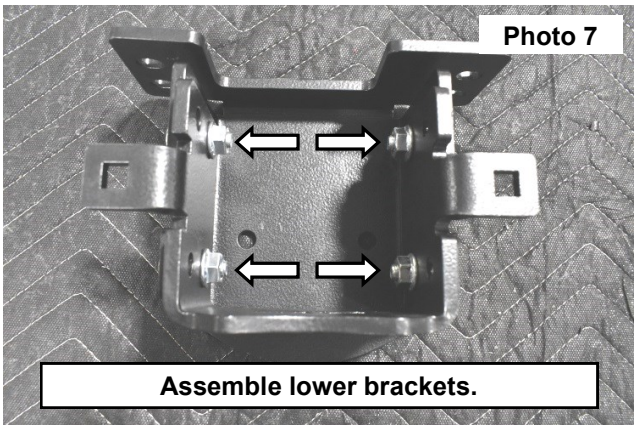


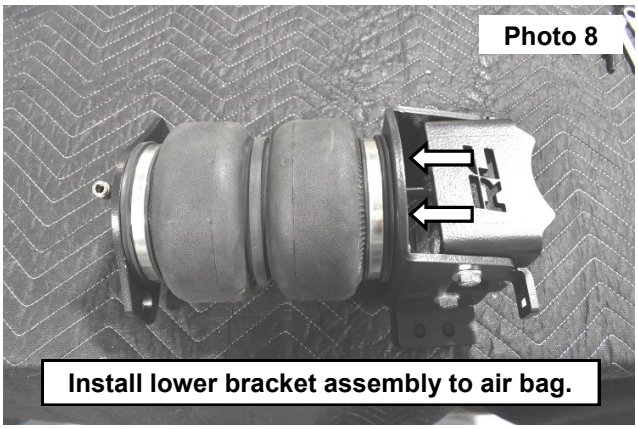
6. Place the top bracket on the air bag and install the supplied 3/8” x 3/4” flat head bolts using a 7/32” Allen wrench. **See Photo 5**. **NOTE: The Bracket will have a “D” or “P” marked for driver and passenger side**.
7. Measure the factory block height. 1” block, uses the bottom hole of the lower bracket. 2” block, uses the middle hole. 3” block, uses the top hole. **See Photo 6.**



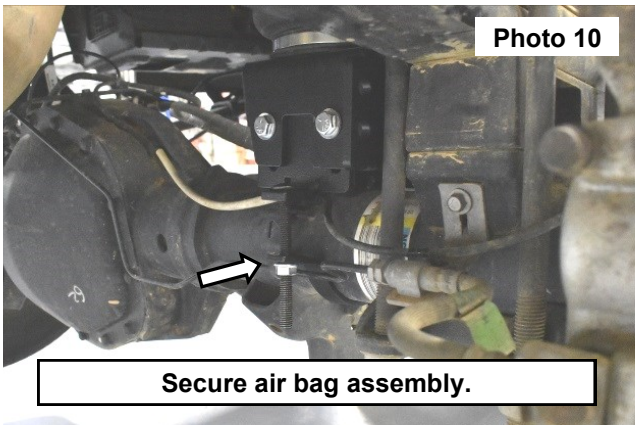
8. Assemble the two lower brackets, using holes determined in previous step, with the supplied 3/8” x 1” bolts, nuts, and flat washers using a 9/16” socket/wrench. **See Photo 7**.
9. Install the lower bracket assembly to the bottom of the air bag with the supplied 3/8” x 1” bolts, lock washers, and flat washers using a 9/16” socket/wrench. **See Photo 8**.



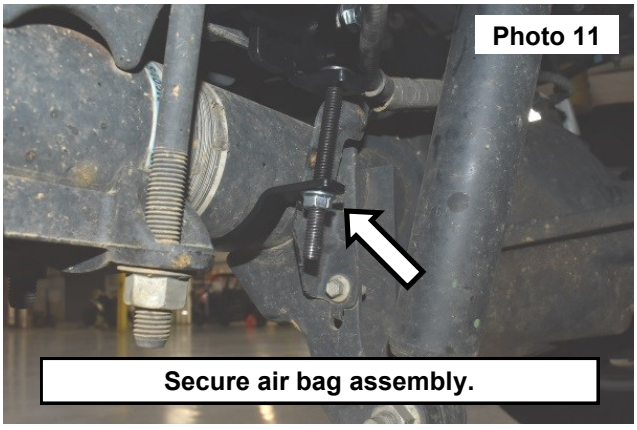

10. Place the air bag assembly on the rear axle inside of the leaf springs. **See Photo 9**.
11. Secure the air bag assembly to the axle using the lower strap and supplied 3/8” x 4” carriage bolts and 3/8” flange nuts using a 9/16” wrench. **See Photo 10** and **Photo 11**.

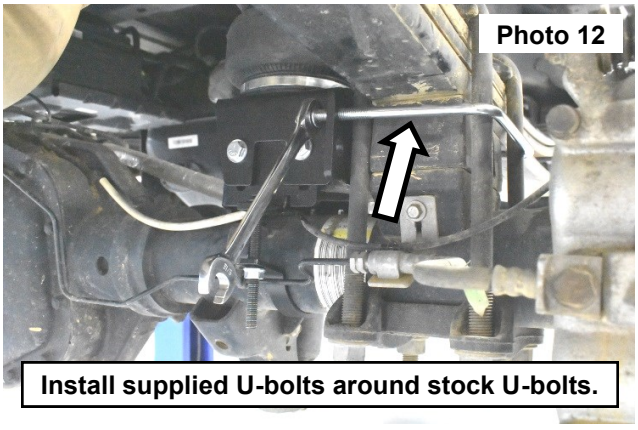


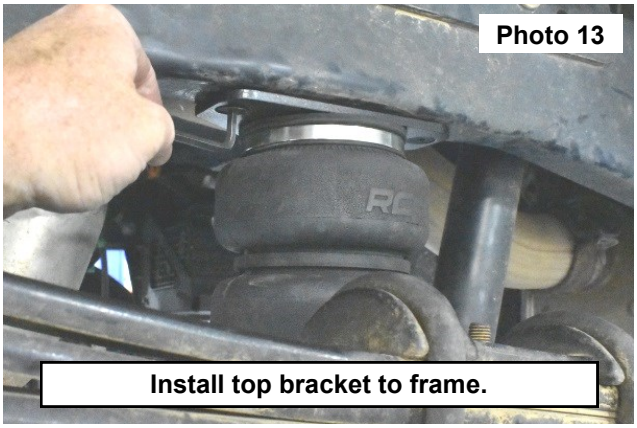

**NOTE: Do not overtighten or strap may bend.**

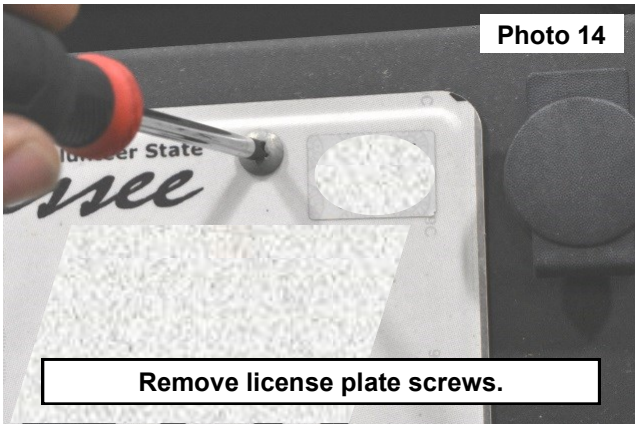
12. Install the supplied 3/8” U-bolts around the stock U-bolts with the supplied 3/8” flange nuts using a 9/16” socket/wrench. **See Photo 12**. **NOTE: Do not overtighten or stock U-bolts may bend.**



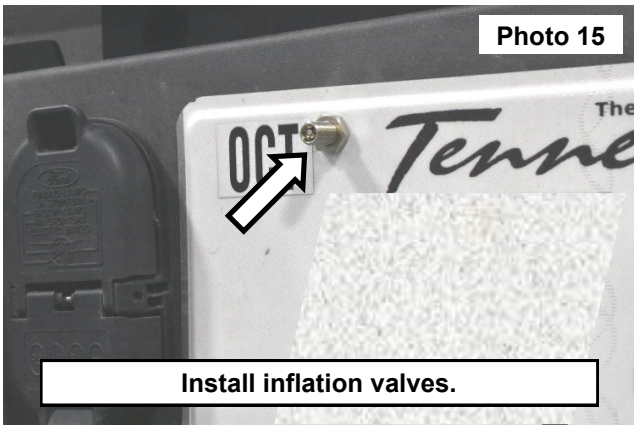



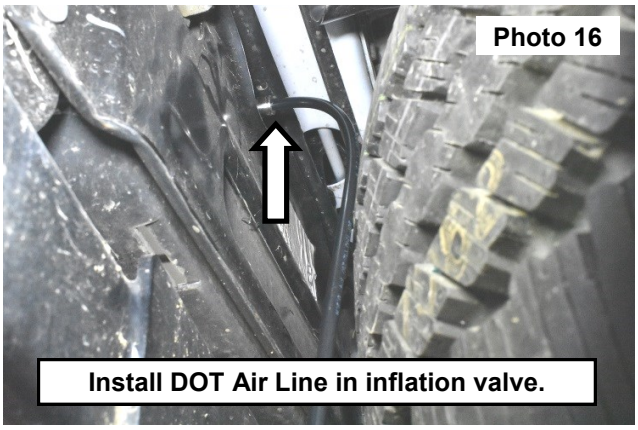
13. Install the top bracket to the frame with the supplied 3/8” x 1-1/4” flat head bolts using a 7/32” Allen wrench.
    **NOTE: Be sure the clip nuts are fully seated in the frame for the bolts to align**. **See Photo 13**.
14. Remove the license plate screws. **See Photo 14**.

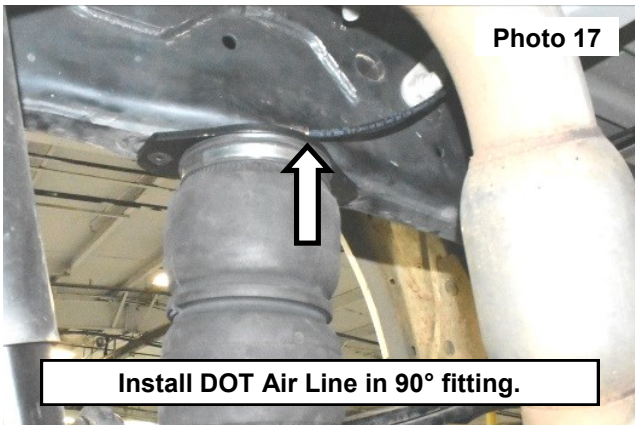



15. Install inflation valves in the stock screw locations. **See Photo 15**.
16. Install the supplied 1/4” DOT air line in the inflation valve and 90° fitting. **See Photo 16** and **Photo 17**.
    **NOTE: Max/Min for Airbags is 5-100 psi.**
17. Put on wheels and lower.




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