



2005+ Ford F-250 & F-350 SD



Properly installing suspension components is essential to ensure the safety and performance of your vehicle. This comprehensive installation guide provides step-by-step instructions for both front and rear suspension components. To guarantee a successful installation, please carefully follow these instructions and gather the necessary tools and equipment beforehand.

Required Tools and Equipment:

- Vehicle Jack or Lift*
- Vehicle Jack Stands*
- M21 Socket/Wrench
- M10 Socket/Wrench
- T45 Torque Bit
- M8 Wrench/Wrench
- M18 Wrench/Wrench
- M15 Wrench/Wrench
- 5/16" Socket/Wrench
- ¼" Drill Bit
- RST Universal Reservoir Mounting Kit

Estimated Time Required:

- Front Suspension: Approximately 1-2 hours
- Rear Suspension: Approximately 1-2 hours

* Ensure Lift/Jack/Stands are rated for vehicle weight

Warnings and Advice

Prioritize Safety:

- Always prioritize safety by wearing appropriate personal protective equipment (PPE), including gloves and safety glasses.
- Perform all work on a stable and level surface and ensure the vehicle is securely supported on jack stands before any work beneath it.
- Never work under a vehicle supported solely by a jack.

Use Proper Tools and Equipment:

- Ensure you possess all the necessary tools and equipment before commencing the installation, as outlined in the introduction.
- Utilize high-quality, well-maintained tools, as damaged or worn tools can lead to accidents.

Torque Settings Matter:

- Make sure to torque all bolts and fasteners to the manufacturer's specified values, as over-tightening or under-tightening can result in component failure or safety hazards.
- Use a calibrated torque wrench to achieve accurate torque settings.

Brake Line Precautions:

- Exercise extreme caution when working near brake lines to prevent damage or stress during installation or removal.
- Post-reinstallation, meticulously inspect brake lines for correct routing and secure attachment.

Alignment:

- Ensure proper alignment, critical for vehicle handling and tire wear, by scheduling a professional alignment after suspension component installation.

Handle Threads with Care:

- Treat threads delicately, particularly when dealing with nuts and bolts during installation and removal. Cross-threading or over-tightening can harm threads, compromise safety, and dramatically increase install time.

Lubrication and Anti-Seize:

- Apply suitable lubrication to moving components and pivot points as specified by the manufacturer.
- Utilize anti-seize compound on bolts and threads to prevent corrosion and simplify future maintenance.

Double-Check Everything:

- Prior to concluding any installation step, verify alignment, torque settings, and the proper seating of components.
- Confirm that all components are correctly reassembled and no steps have been overlooked.

Seek Professional Assistance:

- If you encounter difficulties during the installation, do not hesitate to seek professional assistance.

Regular Maintenance and Inspections:

- After installation, routinely inspect suspension components for wear, loose fasteners, or damage.
- For on road driving, clean with soap and water every couple of months. Clean with soap and water after driving off road.
- Apply an automotive wax to the bodies to aid in protection and longevity.

Contact Technical Support:

- For questions, concerns, or further assistance during the installation, please contact our customer support for technical assistance.

Radflo Suspension Technology

10840 Talbert Ave, Fountain Valley, CA 92708

714 965 7828

Remember, the safety and performance of your vehicle depend on the installation and maintenance of suspension components. **Take your time, follow instructions meticulously, and make safety your utmost priority throughout the process.**

The coolest and most rewarding thing you can do for you and your truck is to prioritize safety; whether during maintenance work or a trail run. This includes protecting yourself and your vehicle, which in turn also ensures a reliable and enjoyable driving experience. Whether you're working on upgrades or hitting the road, safety should always be a top priority.

Properly installing suspension components is crucial for vehicle safety and optimal performance. Follow these detailed instructions meticulously, adhere to torque specifications, and always prioritize safety during the installation process. For additional information or assistance, contact our customer support team.

Front and Rear Suspension Removal/Installation Instructions

Front Removal

1. **Remove the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Ensure the vehicle is securely supported on jack stands during this step.
 - **Tip 2:** Loosen the lug nuts slightly before lifting the vehicle to make them easier to remove.
 - **Double-check:** Never work under a vehicle supported solely by a jack.
 - **Warning:** Always prioritize safety and use jack stands when lifting a vehicle.
2. **Loosen Top Post Nut (x3):**
 - **Tool:** M18 Wrench
 - **Tip 1:** Use a ratcheting-wrench for quicker removal
 - **Tip 2:** Do not completely remove the nut, leave several threads engaged to hold up shock when removing the lower bolt.
 - **Double-check:** Note Post Mount Hardware
3. **Remove Lower Nut and Bolt**
 - **Tool:** M18 Wrench
 - **Tip 1:** Use a ratcheting-wrench for quicker removal
 - **Tip 2:** Let the shock hang, suspended by the top post nut.
4. **Remove the Stock Damper:**
 - **Tip 1:** While holding the damper with one hand, use the other to remove the Top Post Nut and remove.
 - **Tip 2:** Carefully disengage the stock damper from its mounting points.
 - **Double-check:** Ensure that all necessary stock components have been removed.

Front Installation

1. **Prepare Your Radflo Smooth-Body Shocks:**
 - **Tip 1:** Confirm DRVR/PASS to ensure correct reservoir positioning.
 - **Tip 2:** Remove Post Top Nut, Washer (x1) and Bushing (x1).
 - **Double-check:** Lower Mounting Hardware, Bearing Spacer (x2)
2. **Insert Post into Shock Mount and Install Hardware:**
 - **Tool:** M15 Wrench
 - **Tip 1:** Tighten Post Top Nut until Bushings (x2) begin to compress.
 - **Tip 2:** Hold the shock absorber while tightening to prevent rotation and damage.
 - **Double-check:** Ensure there is ½" of the Post above Post Top Nut.
 - **IMPORTANT: DO NOT OVER TIGHTEN POST TOP NUT.**
3. **Install Lower Mounting Bolt:**
 - **Tool:** M18 Socket
 - **Tip 1:** Ensure proper bearing spacer orientation.
 - **Tip 2:** Line Up Eyelet Hole with Mounting Holes, insert the bolt, and install the nut.
 - **Double-check:** Confirm the bolt is torqued to manufacturer specifications.
4. **Mount Reservoir Brackets:**
 - **Tools:** ¼" Drill Bit, M15 Socket/Wrench
 - **Tip 1:** Use a center punch to mark the drilling location accurately.
 - **Tip 2:** Lubricate the drill bit for smoother drilling.
 - **Tip 3:** Insert Self-Tapping Screws and Tighten
 - **Double-check:** Confirm proper bracket alignment before drilling.
5. **Place Reservoir on Bracket and Secure with Hose Clamp (x2):**
 - **Tool:** 5/16" Socket/Wrench
 - **Tip 1:** Line up Hose Clamps with ends of Reservoir Decal.
 - **Tip 2:** Don't undo the hose clamps all the way!
 - **Double-check:** Verify hose clamp tightness and reservoir stability.
6. **Reinstall the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Tighten lug nuts partially while on lift/jack.
 - **Tip 2:** Tighten lug nuts in a star pattern for even pressure.
 - **Double-check:** Torque the lug nuts to manufacturer specifications and recheck after driving.

Rear Removal:

1. **Remove the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Ensure the vehicle is securely supported on jack stands during this step.
 - **Tip 2:** Use a cordless impact wrench for faster lug nut removal.
 - **Double-check:** Always prioritize safety and use jack stands when lifting a vehicle.
 - **Warning:** Never work under a vehicle supported solely by a jack.
2. **Remove Top Shock Bolt and Nut (x1):**
 - **Tools:** M21 Wrench, M18 Wrench
 - **Tip 1:** Apply penetrating oil to stubborn bolt threads.
 - **Tip 2:** Use a breaker bar for extra leverage on tough nuts.
 - **Double-check:** Make sure to keep this hardware.
3. **Remove Lower Shock Bolt and Nut (x1):**
 - **Tools:** M18 Wrench, M14 Wrench
 - **Tip 1:** Apply a light coat of anti-seize to the bolt threads.
 - **Tip 2:** Use a breaker bar for extra leverage on tough nuts.
 - **Double-check:** Make sure to keep this hardware.
4. **Remove the Stock Shock:**
 - **Tip 1:** Carefully disengage the stock shock from its mounting points.
 - **Tip 2:** Support the shock with a floor jack during removal.
 - **Tip 3:** Keep any stock hardware and dampers until the end of the installation.
 - **Double-check:** Ensure all stock components are removed before proceeding.

Rear Installation:

1. **Prepare Your Radflo Smooth-Body Piggyback Shocks:**
 - **Tip 1:** Confirm DRVR/PASS to ensure correct reservoir positioning.
 - **Double-check:** Upper and Lower Mounting Hardware, Bearing Spacer (x4)
2. **Lower Floor Jack Until Springs are Loose**
 - **Tip 1:** Ensure both front shocks are removed.
3. **Insert Top Eyelet into Shock Mount and Install Hardware:**
 - **Tool:** M21 Socket/Wrench, M18 Wrench
 - **Tip 1:** Ensure proper bearing spacer orientation.
 - **Tip 2:** Line Up Eyelet Hole with Mounting Holes, insert the bolt, and install the nut.
 - **Double-check:** Confirm the bolt is torqued to manufacturer specifications.
4. **Install Lower Mounting Bolt:**
 - **Tool:** M21 Socket/Wrench
 - **Tip 1:** Ensure proper bearing spacer orientation.
 - **Tip 2:** Line Up Eyelet Hole with Mounting Holes, insert the bolt, and install the nut.
 - **Double-check:** Confirm the bolt is torqued to manufacturer specifications.
5. **Reinstall the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Tighten lug nuts partially while on lift/jack.
 - **Tip 2:** Tighten lug nuts in a star pattern for even pressure.
 - **Double-check:** Torque the lug nuts to manufacturer specifications and recheck after driving.

Appendix:

- Pictures referenced in the instructions:

