



2014+ Ram 2500 HD



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*
- Standard Socket/Wrench Kit
- Metric Socket/Wrench Kit
- ¼" Drill Bit
- RST Universal Reservoir Mounting Kit (x2)

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 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

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 Removal

- 1. Raise Vehicle with a Floor Jack or Lift Until Suspension is Fully Drooped:**
 - **Tool:** Floor Jack/Vehicle Lift
 - **Tip 1:** Loosen Wheel Lugs while the vehicle is on the ground.
 - **Tip 2:** Ensure Jack is on Level Ground
 - **Tip 3:** Ensure the vehicle is securely supported by the lift.
 - **Warning:** Never work under a vehicle supported solely by a jack.
- 2. Remove the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Ensure the vehicle is securely supported on a lift or jack stands during this step.
 - **Tip 2:** Loosen the lug nuts slightly before lifting the vehicle to make them easier to remove.
 - **Warning:** Always prioritize safety and use jack stands when lifting a vehicle.
- 3. 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
- 4. Remove Lower Nut and Bolt**
 - **Tool:** M21 Wrench
 - **Tip 1:** Use a socket or ratcheting wrench for quicker removal.
 - **Tip 2:** Let the shock hang, suspended by the top post nut.
- 5. Remove the Stock Damper:**
 - **Tip 1:** While holding the damper with one hand, use the other to remove the Top Post Nut and pull the damper out of the mount.
 - **Double-check:** Ensure that all necessary stock components have been removed.

Rear Removal:

- 1. Remove the Tire:**
 - **Tool:** M21 Socket
 - **Tip 1:** Ensure the vehicle is securely supported on a lift or jack stands during this step.
 - **Tip 2:** Loosen the lug nuts slightly before lifting the vehicle to make them easier to remove.
 - **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:** M21 Wrench
 - **Tip 1:** Use a socket or 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 pull the damper out of the mount.
 - **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:** M19 Wrench, M8 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 are **8 Complete Threads** visible above Post Top Nut.
 - **IMPORTANT: DO NOT OVER TIGHTEN POST TOP NUT.**
3. **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.
4. **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.
5. **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.
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.
 - **Tip 3:** Torque to manufacturer specifications when the vehicle is on the ground.
 - **Double-check:** Torque the lug nuts to manufacturer specifications and recheck after driving.

******DO NOT UNDER ANY CIRCUMSTANCES** use an air gun, drill, or impact to tighten the nut on the pin mount. Please use an 8mm wrench to retain the flat on the top of the pin and a 19mm wrench or socket to tighten the nylock nut. Torque the nylock nut until you see the bushings begin to compress. Do not over tighten as this can damage the bushings.

******THERE SHOULD BE EIGHT (8) COMPLETE THREADS VISIBLE**

Rear Installation:

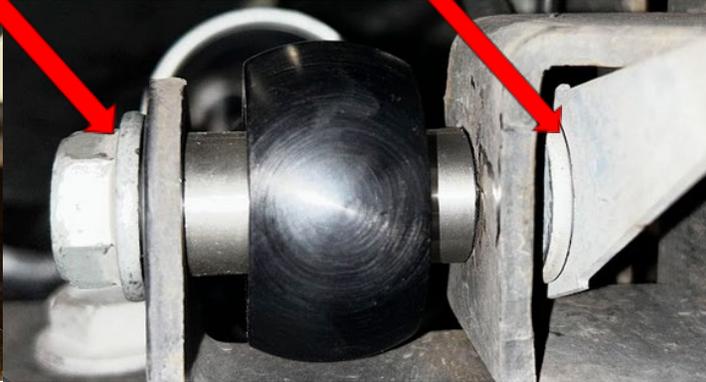
- 1. Prepare Your Radflo Smooth-Body Piggyback Shocks:**
 - **Tip 1:** Confirm DRV/R/PASS to ensure correct reservoir positioning.
 - **Tip 2:** Remove Post Top Nut, Washer (x1) and Bushing (x1).
 - **Double-check:** Lower Mounting Hardware, Bearing Spacer (x2)
- 2. Insert Post into Shock Mount and Install Hardware****:**
 - **Tool:** M19 Wrench, M8 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 are **8 Complete Threads** visible above Post Top Nut.
 - **IMPORTANT: DO NOT OVER TIGHTEN POST TOP NUT.**
- 3. 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.
- 4. 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.

******DO NOT UNDER ANY CIRCUMSTANCES** use an air gun, drill, or impact to tighten the nut on the pin mount. Please use an 8mm wrench to retain the flat on the top of the pin and a 19mm wrench or socket to tighten the nylock nut. Torque the nylock nut until you see the bushings begin to compress. Do not over tighten as this can damage the bushings.

******THERE SHOULD BE EIGHT (8) COMPLETE THREADS VISIBLE**

Appendix:

FRONT



For Front Shock Purchased Before 20 October 2023



Passenger's Side Shown. Driver's Side is Mirrored.

For Front Shock Purchased After 20 October 2023



Passenger's Side Shown. Driver's Side is Mirrored.

REAR

