



## Ford Transit 4x4



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 Set
- Metric Socket/Wrench Set
- Pry Tool
- Floor or Transmission Jack

**Estimated Time Required:**

- Front Suspension: Approximately 1-3 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, 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.

## 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 Suspension Removal**

### **1. Remove the Tire:**

- **Tool: M21 Socket**
- 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. Remove the ABS line from both sides of the vehicle**

- Push the tab on the ABS line holder to release the clip, then pull up and remove it from the shock.

### **3. Keep a jack under the lower control arm while removing and installing shocks.**

### **4. Remove the Tie Rod Nut: Picture 1A**

- **Tool: M18 Socket/Wrench, 6mm Allen**

### **5. Remove the Sway Bar Link: Picture 1B**

### **6. Remove the Brake Caliper Bolts: Picture 1C**

- **Tool: M21 Socket/Wrench**
- Remove the caliper and secure out of the way

### **7. Remove the Wheel Hub Nut: Picture 1D**

- **Tool: M36 Socket**
- Apply the brakes or chock the front wheel studs to keep from rotating

### **8. Remove the Lower Mounting Bolts: Picture 1E**

- **Tool: M18 Socket/Wrench**

### **9. Remove the Nut connecting the Lower Control Arm to Spindle: Picture 1F**

- **Tool: M30 Socket/Wrench**
- Support the spindle with another jack or stand

### **10. Use a Pry Bar/Tool to Pry down the Lower Control Arm**

- Pull the spindle out and away from the lower control arm.

### **11. Remove the CV from the Wheel Hub**

- Pull the spindle away from the frame, using a rubber mallet.
- In order to avoid overextension, use a ratchet strap to keep the axle up and out of the way

### **12. Remove the Spindle from the Lower Shock Mount and set aside**

### **13. Remove Driver Side Upper Mounting Bolts:**

- **Tool: M15 Socket/Wrench,**
- Pull the floor mat back and using a 15mm socket, remove the upper mounting bolts for the driver side.

### **14. Remove Passenger Side Upper Mounting Bolts:**

- **Tool: M15 Socket/Wrench**
- Open the glove box and press tabs at the top to allow it to unlock and fully open
- Pull the floor mat back and using a 15mm socket, remove the upper mounting bolts for the passenger side.

### **15. Remove the shock.**

## ***Front Suspension Installation***

- 1. Install Upper Mounting Bolts: Picture 2A**
  - Tool: M15 Socket/Wrench
- 2. Reconnect the Spindle to the Lower Shock Mount and Install Bolts: Picture 2B**
  - Tool: M18 Socket/Wrench
  - Support the Spindle with a transmission or floor jack
- 3. Install the CV onto the Wheel Hub and Torque Nut to Factory Specifications: Picture 2C**
  - Tool: M36 Socket
  - Push the CV spline all the way onto the Wheel Hub and install the nut securely.
- 4. Install Lower Control Arm Nut: Picture 2D**
  - Tool: M30 Socket/Wrench
  - Use the pry tool to help align control arm and spindle
- 5. Install the Brake Caliper: Picture 2E**
  - Tool: M21 Socket/Wrench
- 6. Install the Sway Bar Link: Picture 2F**
  - Tool: M18 Socket/Wrench, 6mm Allen
- 7. Install the Tie Rod Nut: Picture 2G**
  - Tool: M18 Socket/Wrench, 6mm Allen
- 8. Install the ABS Line on both sides of the vehicle: Picture 2H**
  - Push the tab on the ABS line holder to release the clip, then insert it back into the shock.
- 9. Install the Tire:**
  - Tool: M21 Socket
  - Tighten the lug nuts slightly before lowering the vehicle.

### ***Rear Suspension Removal:***

1. **Remove Top Shock Bolt: Picture 3A**
  - **Tools:** M21 Wrench/Socket
  - **Double-check:** Make sure to keep this hardware.
2. **Remove Lower Shock Bolt and Nut: Picture 3B**
  - **Tools:** M18 Wrench/Socket, M15 Wrench/Socket
  - **Double-check:** Make sure to keep this hardware.
3. **Remove the Stock Shock:**

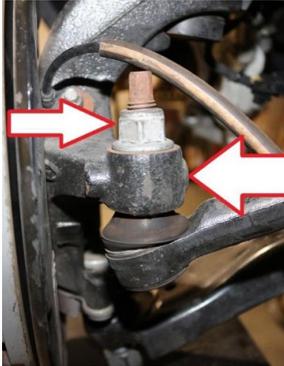
### ***Rear Suspension Installation:***

1. **Install Radflo Piggyback: Picture 4A**
  - **Double-check:** Confirm correct mounting hardware orientation.
    - Long offset bearing spacer towards the frame.
2. **Install Top Shock Bolt: Picture 4B**
  - **Tools:** M21 Wrench/Socket
  - **Double-check:** Torque to manufacturer specifications.
3. **Install Lower Shock Bolt and Nut: Picture 4C**
  - **Tools:** M18 Wrench/Socket, M15 Wrench/Socket
  - **Double-check:** Torque to manufacturer specifications.
4. **Reinstall the Tire:**
  - **Tool:** M21 Socket
  - **Tip:** 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:

- Picture 1A



- 
- Picture 1B

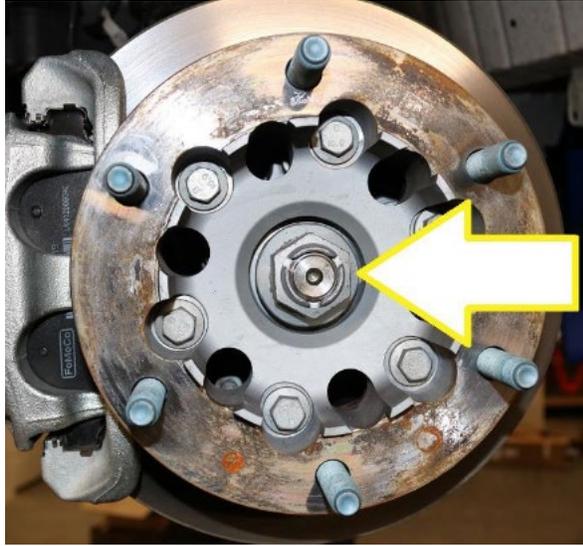


- 
- Picture 1C



-

○ Picture 1D



○  
○ Picture 1E



○  
○ Picture 1F

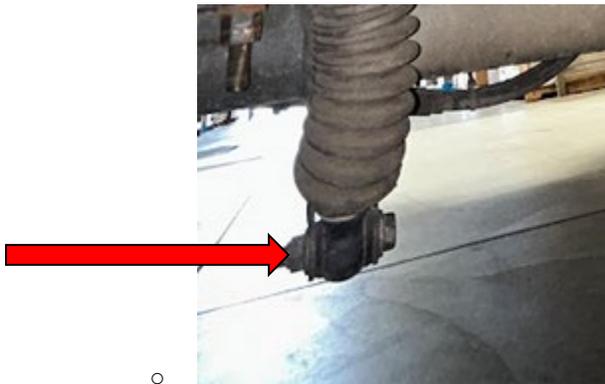


○

Picture 3A



- 
- Picture 3B

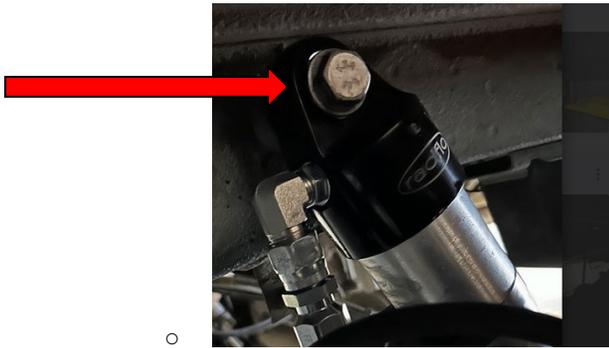


-

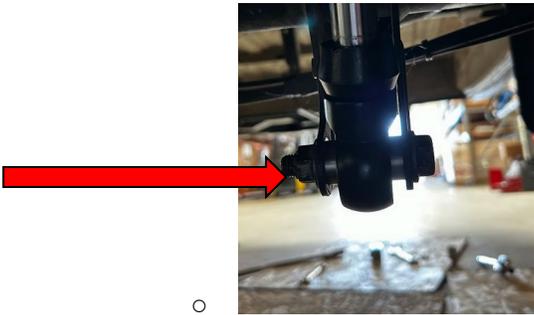
- Picture 4A (Hose Fitting towards front of vehicle)



- 
- Picture 4B



- 
- Picture 4C



-