



2024+ Toyota Land Cruiser



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 have all the necessary tools and equipment before beginning the installation.
- Utilize high-quality, well-maintained tools, as damaged or worn tools can lead to accidents or strips/crossthreads.

Torque Settings Matter:

- Make sure to torque all bolts and fasteners to the manufacturer's specs, 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

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FRONT SUSPENSION:

OFFSET WHEELS OR SPACERS MAY BE NEEDED DEPENDING ON THE WHEEL/TIRE COMBINATION.

REAR SUSPENSION:

OFFSET WHEELS OR SPACERS MAY BE NEEDED DEPENDING ON THE WHEEL/TIRE COMBINATION.

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: M20 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. Disconnect the ABS and Brake Line tabs:

- **Tool: M12 Socket/Wrench**
- Ensure the brake lines have some slack. This will allow the wheel to fully droop out.

3. Disconnect the Wheel Speed Sensor:

- **Tool: M10 Socket/Wrench**
- Ensure the brake lines have some slack. This will allow the wheel to fully droop out.

4. Remove the Tie Rod and Upper Control Arm Cotter Pins

- **Tool: Pliers/Screwdriver**

5. Remove the Tie Rod Nut: Picture 1A

- **Tool: M24 Socket/Wrench**

6. Disconnect the Sway Bar Link: Picture 1B

- **Tool: M19 Socket/Wrench**

Keep a jack stand under the lower control arm while removing and installing shocks.

7. Disconnect Upper Control Arm

- **Tool: M19 Socket/Wrench and Hammer**
- Tap the Spindle at the Joint to separate it from the control arm.

8. Remove the Lower Shock Mount Bolt: Picture 1D

- **Tool: M19 Socket/Wrench**

9. Remove the Lower Mounting Bolts: Picture 1E

- **Tool: M18 Socket/Wrench**

10. Remove the Top Hat Nuts: Picture 1F

- **Tool: M12 Socket/Wrench**
- Hold the shock with one hand while loosening the nuts with the other to avoid damaging the shock.

11. Remove the Stock Coil-Over:

- Push the spindle down and remove the coil-over

Front Suspension Installation

- 1. Install Top Hat Nuts: Picture 2A**
 - Tool: M15 Socket/Wrench
- 2. Install Lower Shock Mount Bolt: Picture 2B**
 - Tool: M19 Socket/Wrench
 - Support the Lower Control Arm with a transmission/ floor jack
- 3. Reconnect Upper Control Arm: Picture 2C**
 - Tool: M19 Socket
 - Push the CV spline all the way onto the Wheel Hub and install the nut securely.
- 4. Reconnect Tie Rod: Picture 2D**
 - Tool: M24 Socket/Wrench
- 5. Reconnect Sway Bar Link: Picture 2F**
 - Tool: M19 Socket/Wrench
- 6. Insert Tie Rod and Upper Control Arm Cotter Pins**
 - Tool: Pliers/Screwdriver
- 7. Install the ABS and Brake Line Tabs: Picture 2H**
 - Tool: M12 Socket/Wrench
- 8. Install the Wheel Speed Sensor: Picture 2H**
 - Tool: M10 Socket/Wrench
- 9. Install Reservoir Mount**
 - Tool: M8 Socket/Wrench
- 10. Install the Tire:**
 - Tool: M21 Socket
 - Tighten the lug nuts slightly before lowering the vehicle.

Rear Suspension Removal:

1. Remove the Tire:

- **Tool: M20 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.

Keep a jack stand under the lower control arm while removing and installing shocks.

2. Remove Lower Shock Bolt and Nut: Picture 3B

- o **Tools:** M17 Wrench/Socket

3. Remove Top Shock Bolt: Picture 3A

- o **Tools:** M19 Wrench + 8mm Wrench

4. Remove the Stock Shock:

Rear Suspension Installation:

1. Install Radflo Piggyback: Picture 4A

- o **Double-check:** Confirm correct mounting hardware and hose orientation.

2. Install Top Shock Bolt: Picture 4B

- o **Tools:** M19 Wrench + 8mm Wrench

3. Install Lower Shock Bolt and Nut: Picture 4C

- o **Tools:** M17 Wrench/Socket

4. Install Reservoir Mount

- **Tool: M8 Socket/Wrench**

5. Reinstall the Tire:

- o **Tool:** M20 Socket
- o **Tip:** Tighten lug nuts in a star pattern for even pressure.
- o **Double-check:** Torque the lug nuts to manufacturer specifications and recheck after driving.

Appendix:

- Pictures referenced in the instructions:
 - Picture 1A
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 - Picture 1B
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 - Picture 1C
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 - Picture 1D
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 - Picture 1E
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 - Picture 1F
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 - Picture 2A
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 - Picture 2B
 -
 - Picture 2C
 -
 - Picture 2D
 -
 - Picture 2E
 -
 - Picture 2F
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- Picture 3A
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- Picture 3B
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- Picture 4A (Hose Fitting towards Rear of vehicle)
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- Picture 4B
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- Picture 4C
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