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Torque TR2407

TORQUE TR2407 Airbag Suspension Kit for Toyota Tacoma (2005-2023)

Model: TR2407AS

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TORQUE Airbag Suspension Kit. This kit is designed to enhance your vehicle's load-carrying capacity, stability, and ride quality, particularly when towing or hauling heavy loads. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.



Image 1.1: Complete TORQUE Airbag Suspension Kit with packaging.

2. Vehicle Compatibility

This TORQUE Airbag Suspension Kit (Model TR2407AS) is a direct replacement for Firestone Ride Rite W21-760-2407 and is compatible with the following vehicles:

- **2005-2023 Toyota Tacoma 2WD and 4WD models**
- **2005-2023 Toyota Tacoma Prerunner 2WD models**

For 2WD Tacoma models, the leaf spring must be positioned over the axle for proper fitment. This kit is **not** compatible with in-bed hitch systems or lowered vehicles.



Image 2.1: Visual guide for compatible Toyota Tacoma models.

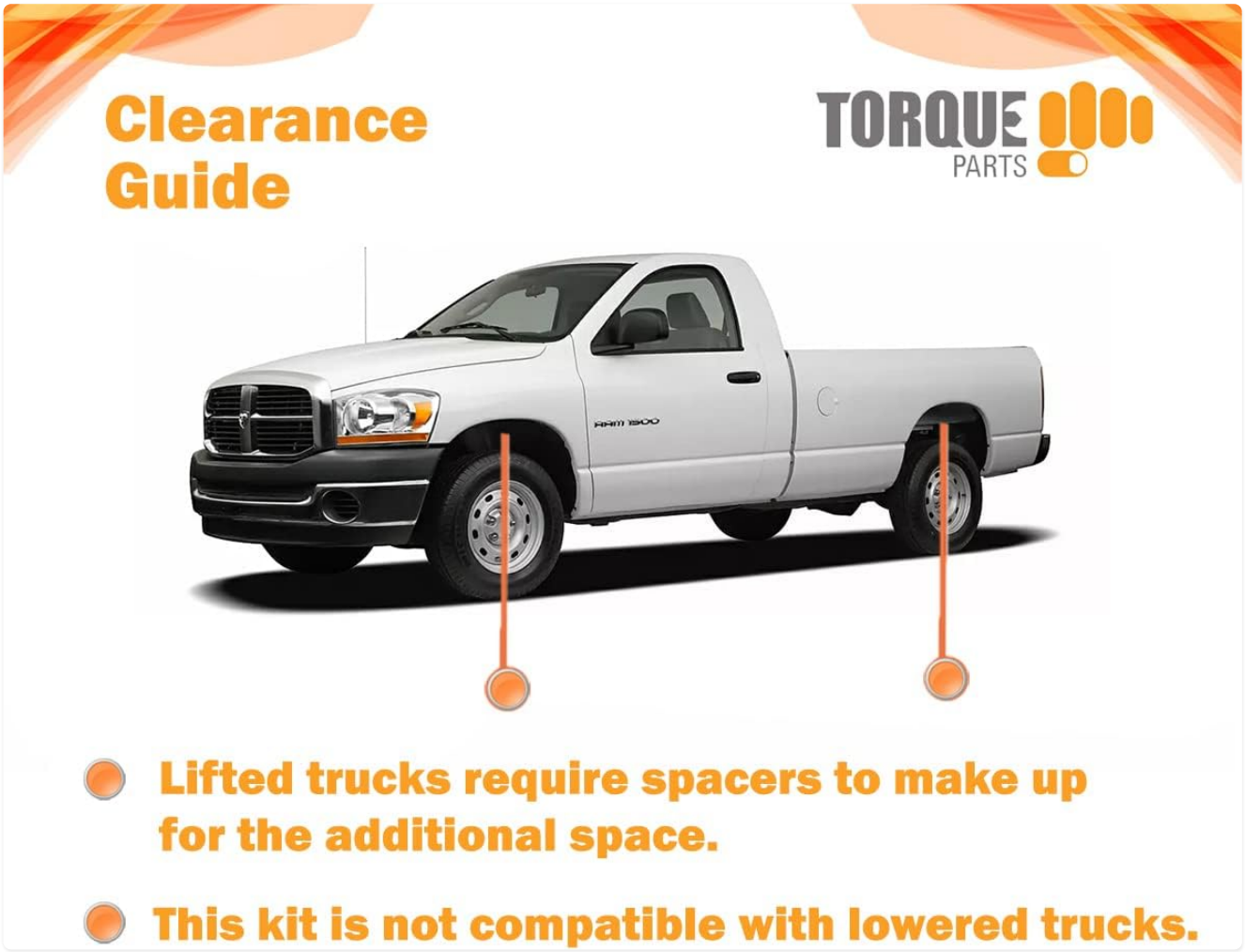


Image 2.2: Clearance guide indicating spacer requirements for lifted trucks and incompatibility with lowered trucks.

3. Package Contents

Your TORQUE Airbag Suspension Kit includes all necessary components for installation:

- 2 x Air Bags
- All necessary Brackets
- Installation Manual
- Bolts and Nuts for installation
- Inflation Valves
- Elbow Fittings
- Tubing



Image 3.1: Detailed view of all included kit components.

4. Installation Instructions

The TORQUE Airbag Suspension Kit features a bolt-on installation design, requiring no frame drilling. A detailed installation manual is included with your kit, providing step-by-step instructions.

General Installation Steps (Refer to included manual for full details):

1. Prepare the vehicle: Ensure the vehicle is on a level surface, wheels are chocked, and the frame is supported.
2. Remove existing components as necessary to access the installation area.
3. Assemble the air springs with the provided brackets.
4. Mount the assembled air springs to the vehicle frame using the supplied bolts and nuts.
5. Install the air lines and inflation valves. Ensure all connections are secure.
6. Test for leaks and adjust air pressure.

Important Installation Notes:

- Ensure all bolts and nuts are tightened to the manufacturer's specifications.
- When connecting air lines to brass fittings, apply Teflon tape to the threads to prevent air leaks.
- For critical connections, consider using a thread-locking compound (e.g., red Loctite) on the top locking nut and bottom bolt for the airbag to ensure long-term security, especially in demanding conditions.
- If your vehicle is lifted at the rear, spacers may be required to achieve proper alignment and function. Refer to the spacer table in the Troubleshooting section.

5. Operation and Adjustment

TORQUE air helper springs provide adjustable load support, allowing you to maintain optimal vehicle height and stability under varying load conditions. By adjusting the air pressure, you can:

- Maximize safe load-carrying capacity.
- Improve steering control and braking effectiveness.
- Enhance ride quality by reducing inter-leaf friction and preventing bottoming out.
- Maintain proper headlight aim and reduce tire wear.

Air Pressure Guidelines:

- **Minimum PSI:** 5 PSI (pounds per square inch)
- **Maximum PSI:** 100 PSI

Always adjust air pressure according to the load being carried. Do not exceed the maximum recommended PSI. The air springs are designed to withstand up to 500 PSI, but operating within the 5-100 PSI range is recommended for optimal performance and comfort.



Image 5.1: Illustration of load leveling support provided by air springs.

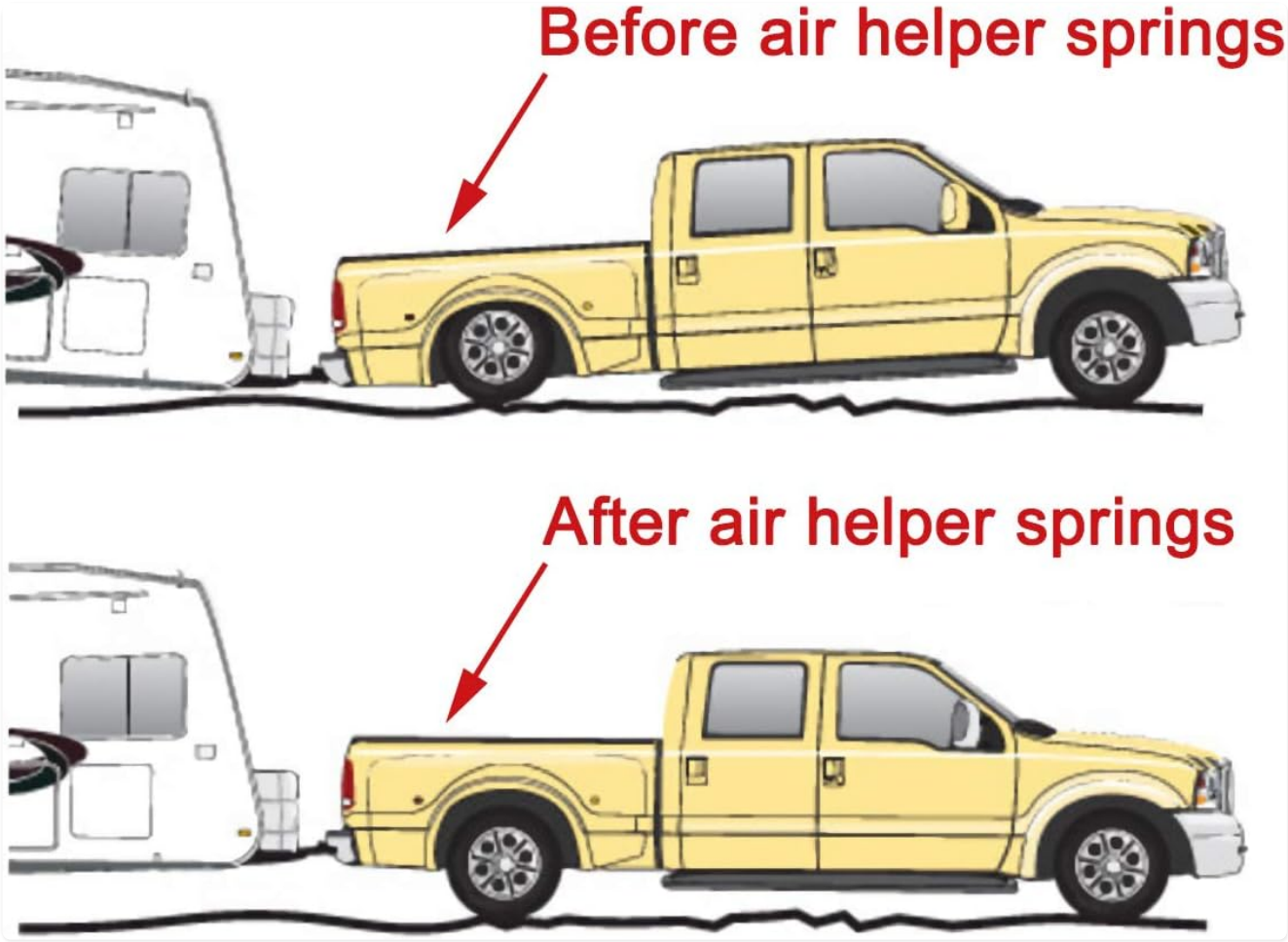


Image 5.2: Visual comparison of vehicle stance with and without air helper springs under load.

6. Maintenance

Regular inspection and basic maintenance will ensure the longevity and optimal performance of your TORQUE Airbag Suspension Kit:

- **Periodic Inspection:** Visually inspect the air bags, brackets, and air lines for any signs of wear, damage, or leaks at least once every three months or before long trips.
- **Cleanliness:** Keep the air bags and surrounding components free from dirt, debris, and corrosive materials.
- **Air Pressure Check:** Regularly check and maintain the recommended air pressure, especially before and after carrying heavy loads.
- **Connection Integrity:** Ensure all air line connections remain tight and free of leaks.

7. Troubleshooting

Common Issues and Solutions:

- **Air Leaks:** If air bags are losing pressure, check all air line connections for tightness. Re-tighten fittings or re-apply Teflon tape if necessary. Inspect air bags for punctures or damage.
- **Uneven Ride Height:** Ensure air pressure is balanced between both air bags. Check for obstructions or uneven loading.
- **Kit Does Not Fit:** Verify vehicle compatibility (model year, 2WD/4WD, Prerunner status). Ensure the leaf spring is over the axle for 2WD models. Confirm the vehicle is not lowered.

Frequently Asked Questions:

Q: Will the kit fit if my vehicle is lifted at the rear?
A: If the rear of the truck is lifted, you may need a spacer to ensure proper fitment and function. Refer to the table below for spacer height recommendations based on the distance between your brackets.

Spacer Recommendation Table

Distance Between Brackets	Spacer Height	Part Number
6.5" - 7.5"	1.25"	TR200012AS
7.5" - 8.5"	2"	TR200020AS
8.5" - 9.5"	3"	TR200030AS
9.5" - 10.5"	4"	TR200040AS
10.5" - 11.5"	5"	TR200050AS
11.5" - 12.5"	6"	TR200060AS

Q: Can I use a cradle with this kit?
A: Yes, this kit is compatible with cradles. The recommended cradle part number is TR3004.

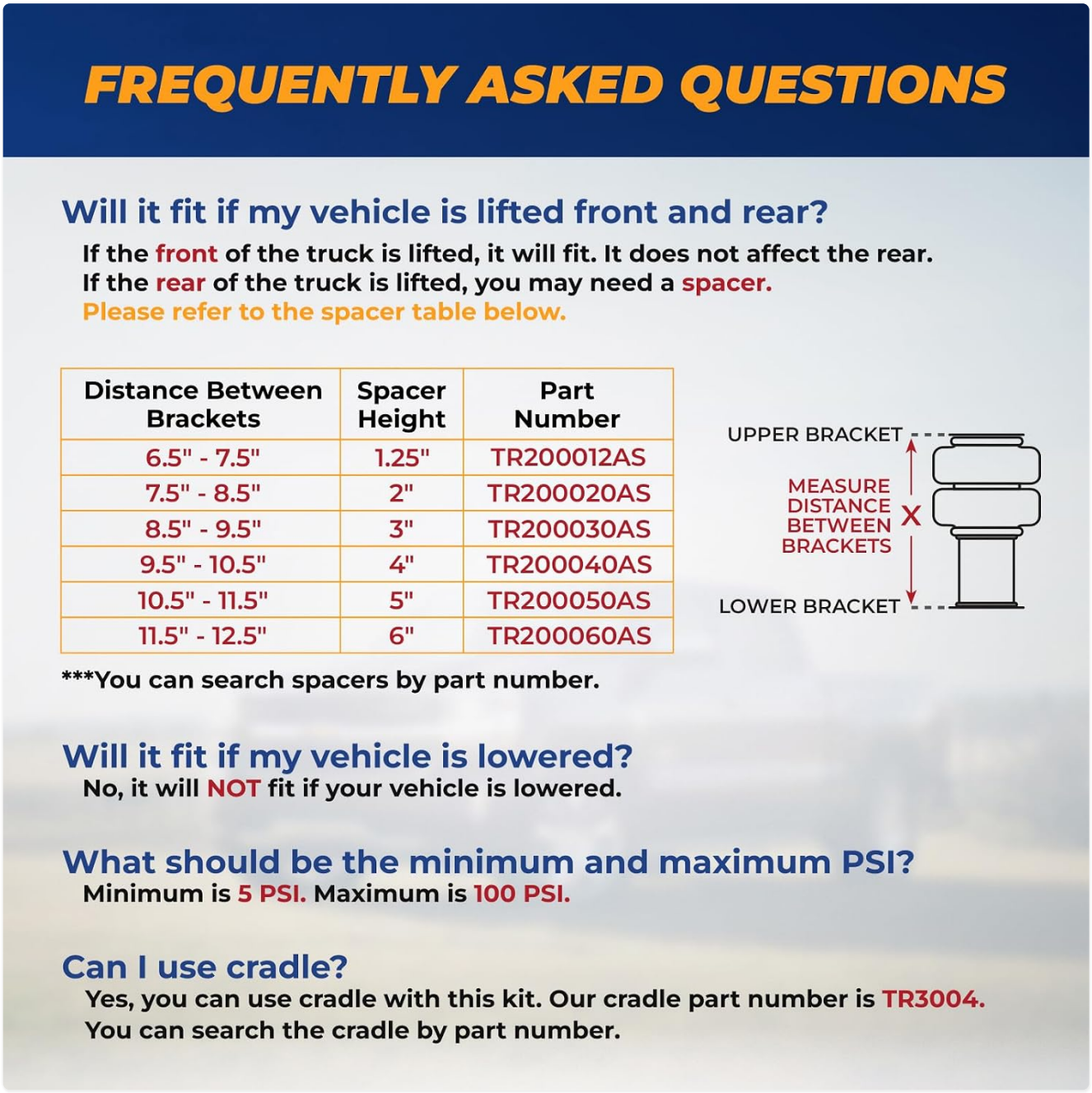


Image 7.1: Frequently Asked Questions regarding fitment and air pressure.

8. Product Specifications

Feature	Detail
Brand	Torque
Model Number	TR2407AS
Auto Part Position	Rear
Material	Alloy Steel (4140 grade for air inlets)
Included Components	Installation Guide, Installation Hardware (air bags, brackets, bolts, nuts, inflation valves, elbow fittings, tubing)
Load Capacity	5,000 lbs

Feature	Detail
Drilling Required	No
Item Weight	26 pounds
Package Dimensions	14 x 13 x 12 inches
OEM Part Number Equivalent	2407, W21-760-2407, W217602407
UPC	827156570016



Image 8.1: Durability features of TORQUE air springs.

9. Warranty and Support

TORQUE products are manufactured to high-quality standards. For specific warranty details, please refer to the documentation included with your purchase or contact the seller directly. In the event of any questions, concerns, or

technical assistance needs, please reach out to the seller, AftermarketUS, or visit the official Torque store for support resources.

Contact Information:
Seller: AftermarketUS
Online Store: Visit the Torque Store

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