

## Torque TR2400

# TORQUE Air Spring Bag Suspension Kit (TR2400)

Instruction Manual for 2005-2007 Ford F250 F350 4WD

Brand: Torque | Model: TR2400

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TORQUE Air Spring Bag Suspension Kit, model TR2400. This kit is designed to enhance the load-carrying capacity, stability, and ride quality of your vehicle by providing adjustable air support to the rear suspension. Proper installation and maintenance are crucial for optimal performance and safety.

## 2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury or damage to your vehicle.

- **Professional Installation Recommended:** While designed for bolt-on installation, professional assistance is recommended if you are unfamiliar with automotive suspension systems.
- **Vehicle Support:** Always use jack stands or a lift to securely support the vehicle when working underneath it. Never rely solely on a jack.
- **Eye Protection:** Wear appropriate eye protection during installation.
- **Air Pressure:** Never exceed the maximum recommended air pressure of 100 PSI. Maintain a minimum of 5 PSI at all times to prevent damage to the air springs.
- **Component Inspection:** Regularly inspect all components for wear, damage, or leaks.
- **Hot Components:** Allow exhaust components to cool before working near them.

## 3. PACKAGE CONTENTS

Verify that all components listed below are present in your kit before beginning installation. If any parts are missing or damaged, contact customer service.



Overview of the TORQUE Air Spring Bag Suspension Kit components.



Detailed view of all kit components.

### Included Components:

- 2 x Air Bags
- Upper Brackets
- Lower Brackets
- Left Jounce Stop Bracket
- Right Jounce Stop Bracket
- Long 4x4 Spacer
- Short 4x4 Spacer
- 1/2" Spacer
- Bail Clamp
- Air Line Tubing (Red)
- Heat Shield
- Fuel Line Bracket
- All necessary Bolts, Nuts, Fittings, and Washers
- Inflation Valves
- Installation Guide

## **PARTS LIST**

AIR SPRING  
UPPER BRACKET  
LOWER BRACKET  
LEFT JOUNCE STOP BRACKET  
RIGHT JOUNCE STOP BRACKET  
LONG 4X4 SPACER  
SHORT 4X4 SPACER  
1/2" SPACER  
BAIL CLAMP  
AIR LINE TUBING  
HEAT SHIELD  
FUEL LINE BRACKET  
ALL THE BOLTS, NUTS, FITTINGS REQUIRED

Detailed parts list as provided in the kit.

## **4. FITMENT INFORMATION**

This TORQUE Air Spring Bag Suspension Kit (TR2400) is specifically designed for the following vehicles:

- 2005-2007 Ford F250 4WD (Rear Only)
- 2005-2007 Ford F350 4WD (Rear Only)

**Important:** This kit is **NOT** compatible with vehicles equipped with an in-bed hitch. Please ensure your vehicle matches these specifications for proper fitment and operation.



Visual confirmation of vehicle fitment.

## **5. SETUP AND INSTALLATION**

The TORQUE Air Spring Bag Suspension Kit features a bolt-on installation process, requiring no frame drilling. All

necessary hardware is included. For detailed, step-by-step instructions, please refer to the dedicated installation manual provided within your kit.

### Key Installation Points:

- Ensure the vehicle is safely supported and the wheels are chocked.
- Follow the torque specifications for all fasteners as outlined in the installation manual.
- Route air lines carefully, avoiding sharp edges, moving parts, and heat sources. Secure them with zip ties.
- Install inflation valves in an easily accessible yet protected location.
- After installation, inflate the air springs to 5 PSI and check for leaks using a soapy water solution.

## 6. OPERATING INSTRUCTIONS

The air springs provide adjustable load support. Adjust the air pressure according to your load requirements to maintain a level ride and optimal handling.

### Air Pressure Guidelines:

- **Minimum Pressure:** Always maintain a minimum of **5 PSI** in the air springs, even when unloaded. This prevents damage to the air springs.
- **Maximum Pressure:** Do not exceed **100 PSI**.
- **Load Leveling:** Inflate the air springs to achieve a level vehicle stance when carrying a load or towing. This helps maintain steering control, braking effectiveness, and reduces bottoming out.
- **Ride Comfort:** Adjust pressure to find the optimal balance between load support and ride comfort. Higher pressure provides more support but can result in a firmer ride.



The air springs provide up to 5,000 lbs of load leveling capacity.

Visual representation of load leveling benefits with Torque suspension.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your air spring suspension system.

- **Monthly Inspection:** Check air pressure monthly. Inspect air lines, fittings, and air springs for any signs of wear, cracks, or leaks.
- **Cleanliness:** Keep the air springs and surrounding components free from dirt, debris, and corrosive materials.
- **Air Line Integrity:** Ensure air lines are securely fastened and not rubbing against any vehicle components.
- **Minimum Pressure:** Always maintain at least 5 PSI in the air springs to prevent damage.

## 8. TROUBLESHOOTING AND FREQUENTLY ASKED QUESTIONS

This section addresses common questions and issues you might encounter.

### FREQUENTLY ASKED QUESTIONS

**Will it fit if my vehicle is lifted front and rear?**  
 If the **front** of the truck is lifted, it will fit. It does not affect the rear.  
 If the **rear** of the truck is lifted, you may need a **spacer**.  
 Please refer to the spacer table below.

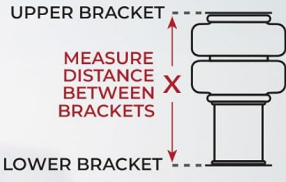
Distance Between Brackets	Spacer Height	Part Number
6.5" - 7.5"	1.25"	TR200012AS
7.5" - 8.5"	2"	TR200020AS
8.5" - 9.5"	3"	TR200030AS
9.5" - 10.5"	4"	TR200040AS
10.5" - 11.5"	5"	TR200050AS
11.5" - 12.5"	6"	TR200060AS

\*\*\*You can search spacers by part number.

**Will it fit if my vehicle is lowered?**  
 No, it will **NOT** fit if your vehicle is lowered.

**What should be the minimum and maximum PSI?**  
 Minimum is **5 PSI**. Maximum is **100 PSI**.

**Can I use cradle?**  
 Yes, you can use cradle with this kit. Our cradle part number is **TR3004**.  
 You can search the cradle by part number.



Common questions and answers regarding the air spring kit.

### Common Questions:

- **Will it fit if my vehicle is lifted front and rear?**  
 If the front of the truck is lifted, it will fit. It does not affect the rear. If the rear of the truck is lifted, you may need a spacer. Refer to the spacer table below for guidance.
- **Will it fit if my vehicle is lowered?**  
 No, this kit will **NOT** fit if your vehicle is lowered.
- **What should be the minimum and maximum PSI?**  
 Minimum is **5 PSI**. Maximum is **100 PSI**.
- **Can I use a cradle?**  
 Yes, you can use a cradle with this kit. The compatible cradle part number is TR3004. You can search for the cradle by part number.

### Spacer Selection 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

You can search for spacers by part number.

## 9. SPECIFICATIONS

- **Model Number:** TR2400AS + TR3004 (Kit includes TR2400AS, cradle TR3004 sold separately or as part of a kit)
- **Replaces OEM Part Numbers:** 2400, W21-760-2400, W217602400
- **Load Leveling Capacity:** Up to 5,000 lbs
- **Minimum Air Pressure:** 5 PSI
- **Maximum Air Pressure:** 100 PSI
- **Installation:** Bolt-on, No Drilling Required
- **Position:** Rear Axle
- **Air Inlet Material:** 4140 Grade Steel (compared to OEM 1040 grade)
- **Air Spring Durability:** Designed to withstand up to 500 PSI (not recommended for operation above 100 PSI)
- **Kit Weight:** Approximately 30 pounds
- **Package Dimensions:** 14 x 12 x 10 inches





# 25% MORE DURABLE



4140 grade of steel is used in the air inlets while OEM use 1040 grade.

Although it is not recommended to exceed 100 psi for a safer and more comfortable ride, our air springs are designed to withstand **500 psi** considering the drive conditions.

Information on the durability and material quality of the air springs.

## 10. WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the official documentation included with your product or visit the Torque website. Warranty coverage typically addresses manufacturing defects and material flaws under normal use.

## 11. SUPPORT

Should you require technical assistance, have questions regarding installation, or need to report a missing/damaged part, please contact Torque customer service through their official channels. Contact information can typically be found on the product packaging or the manufacturer's website.

### Online Resources:

- Visit the [Torque Store on Amazon](#) for additional product information and support.