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Torque TR2400AS

TORQUE Airbag Air Bag Suspension Kit User Manual

Model: TR2400AS | Brand: Torque

PRODUCT OVERVIEW

The TORQUE Airbag Air Bag Suspension Kit (Model TR2400AS) is designed to enhance the load-carrying capacity, stability, ride quality, and braking effectiveness of your vehicle. This kit provides adjustable air support to maintain optimal vehicle height and performance, especially when towing or carrying heavy loads. It serves as a direct OEM replacement for Firestone Ride Rite W21-760-2400 systems.



Image: Complete TORQUE Airbag Air Bag Suspension Kit, including air bags, brackets, and hardware, alongside its retail packaging.

FITMENT INFORMATION

This air helper spring kit is specifically designed for the following vehicle models and years:

- 2005-2007 Ford F250 (4WD only)
- 2005-2007 Ford F350 (4WD only)

Note: This kit is NOT compatible with vehicles equipped with an in-bed hitch.

FITMENT (For Rear Only)

2005-2007 Ford F250 (4WD only)

2005-2007 Ford F350 (4WD only)

(NOT In-bed Hitch Compatible)



Image: Visual representation of compatible Ford F-Series trucks and specific fitment years (2005-2007 F250/F350 4WD only).

KEY FEATURES AND BENEFITS

- **Load Leveling Support:** Provides up to 5,000 lbs of load leveling capacity, ensuring your vehicle remains level even with heavy loads.
- **Improved Ride Quality:** Reduces inter-leaf friction and softens contact between the axle and frame, minimizing bottoming out.
- **Enhanced Stability:** Maximizes the vehicle's safe load-carrying capacity and improves overall stability.
- **Better Braking Effectiveness:** Contributes to more effective braking performance under load.
- **Durable Construction:** Air inlets are made from 4140 grade steel, offering 25% more durability compared to OEM 1040 grade steel. Air springs are designed to withstand up to 500 PSI, though 100 PSI is the recommended maximum for safer and more comfortable rides.
- **Direct OEM Replacement:** Directly replaces Firestone Ride Rite W21-760-2400.

LOAD LEVELING SUPPORT

UP TO
5000
LBS



TORQUE 
PARTS

Image: Illustration demonstrating the 5,000 lbs load leveling capacity provided by the air suspension system.

TORQUE Air Bags Suspension Kit



Image: Visual comparison showing a truck towing a trailer without and with Torque Parts Suspension, highlighting improved load leveling and reduced sag.

WHAT'S INCLUDED IN THE KIT

The TORQUE Airbag Air Bag Suspension Kit includes all necessary components for a complete installation:

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



Image: A detailed layout of all components included in the kit: two air bags, various brackets, bolts, nuts, air lines, and inflation valves.

Your browser does not support the video tag.

Video: An overview of the TORQUE Air Bag Suspension Kits, showcasing the components and highlighting their benefits for various vehicle uses like towing and off-roading.

INSTALLATION INSTRUCTIONS

The TORQUE Airbag Air Bag Suspension Kit is designed for a straightforward, bolt-on installation without requiring any frame drilling. Please refer to the included detailed installation manual for step-by-step instructions specific to your vehicle model.

General Installation Steps:

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Lift the rear of the vehicle and support it with jack stands.
2. **Remove Existing Components (if applicable):** Follow the manual to remove any existing components that may interfere with the installation of the air springs.
3. **Install Brackets:** Position and secure the upper and lower brackets to the vehicle's frame and axle, respectively. The brackets are designed for a no-drill installation.

- 4. Install Air Springs:** Mount the air bags between the upper and lower brackets. Ensure proper alignment and secure attachment using the provided bolts and nuts.
- 5. Connect Air Lines:** Attach the elbow fittings to the air bags and connect the tubing. Route the tubing away from hot or moving parts to the inflation valves.
- 6. Install Inflation Valves:** Choose a convenient and protected location (e.g., bumper, wheel well) to install the inflation valves. Connect the air lines from the air bags to these valves.
- 7. Check for Leaks:** Inflate the air springs to a low pressure (e.g., 20 PSI) and check all connections for air leaks using a soapy water solution. Tighten connections as needed.
- 8. Lower Vehicle:** Carefully lower the vehicle off the jack stands.
- 9. Final Adjustment:** Inflate the air springs to the desired pressure based on your load requirements.

Always consult the comprehensive installation manual provided with your kit for detailed, model-specific instructions and safety precautions.

OPERATING INSTRUCTIONS

The TORQUE Airbag Suspension Kit allows you to adjust the air pressure to suit varying load conditions, optimizing ride height and comfort.

Air Pressure Adjustment:

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

Use an air compressor to inflate the air springs via the installed inflation valves. Monitor the pressure with a gauge. Adjust pressure as follows:

- Light Load/Unloaded:** Maintain minimum pressure (5 PSI) for optimal ride comfort.
- Heavy Load/Towing:** Increase air pressure gradually until the vehicle achieves a level stance. Do not exceed 100 PSI.
- Off-Roading:** Adjust pressure as needed for terrain, ensuring not to exceed maximum or fall below minimum.

Proper air pressure ensures even tire wear, improved handling, and prevents bottoming out of the suspension.

MAINTENANCE

Regular maintenance of your TORQUE Airbag Suspension Kit will ensure its longevity and optimal performance.

- Regular Inspection:** Periodically inspect the air bags, air lines, and fittings for any signs of wear, damage, or leaks.
- Check Air Pressure:** Check air pressure regularly, especially before and after towing or hauling heavy loads. Adjust as necessary.
- Clean Components:** Keep the air bags and surrounding components clean from dirt, debris, and corrosive materials.
- Avoid Over-Inflation/Under-Inflation:** Always adhere to the minimum (5 PSI) and maximum (100 PSI) pressure limits to prevent damage to the air springs.
- Torque Fasteners:** Periodically check and re-torque all fasteners to ensure they remain secure.

TROUBLESHOOTING

Here are solutions to common issues you might encounter with your air suspension kit:

Problem	Possible Cause	Solution
Air bag not holding pressure / Leaking	Loose fitting, damaged air line, punctured air bag	Check all fittings for tightness. Inspect air lines for kinks or cuts. Use soapy water to locate leaks on air bags and fittings. Replace damaged components.
Vehicle not leveling properly	Incorrect air pressure, uneven load distribution	Adjust air pressure to recommended levels. Redistribute load evenly in the vehicle.
Rough ride / Too stiff	Over-inflated air bags	Reduce air pressure to the minimum required for your load, ensuring it's above 5 PSI.
Bottoming out / Too soft	Under-inflated air bags, excessive load	Increase air pressure to level the vehicle, ensuring it does not exceed 100 PSI. Reduce load if it exceeds the kit's capacity.

Frequently Asked Questions:

Q: Will it fit if my vehicle is lifted front and rear?

A: If the front of the truck is lifted, it will fit. 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 for spacers by part number.

Q: Will it fit if my vehicle is lowered?

A: No, it will NOT fit if your vehicle is lowered.

Q: What should be the minimum and maximum PSI?

A: Minimum is 5 PSI. Maximum is 100 PSI.

Q: Can I use a cradle?

A: Yes, you can use a cradle with this kit. Our cradle part number is TR3004. You can search the cradle by part number.

FREQUENTLY ASKED QUESTIONS

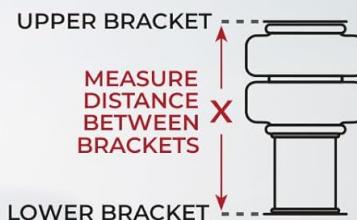
Will it fit if my vehicle is lifted front and rear?

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.

Image: A graphic detailing frequently asked questions regarding vehicle lift, lowering, PSI limits, and cradle compatibility, including a spacer selection table.

SPECIFICATIONS

Attribute	Detail
Manufacturer	TORQUE
Brand	Torque
Model Number	TR2400AS
OEM Part Number (Replaces)	2400, W21-760-2400, W217602400
Position	Rear
Load Capacity	5,000 lbs
Drilling Required	No
Item Weight	32.7 pounds

Attribute	Detail
Package Dimensions	14.15 x 12 x 9.4 inches
Date First Available	August 10, 2022

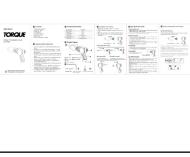
WARRANTY AND SUPPORT

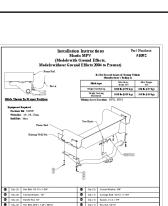
For warranty information and technical support, please refer to the documentation included with your product or visit the official Torque website. You can also contact customer service through the retailer where you purchased the product.

For additional resources and product information, visit the [Torque Store on Amazon](#).

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Related Documents - TR2400AS

	<p>TORQUE PRO WIRELESS VACUUM User Manual - Specifications, Operation, and Safety</p> <p>Comprehensive user manual for the TORQUE PRO WIRELESS VACUUM (SKU: TPRO-1, Model: ST-6645Pro). Includes detailed instructions on installation, operation, cleaning, and important safety guidelines for this handheld vacuum cleaner.</p>
	<p>TORQUE 5G KYG01</p> <p>TORQUE 5G KYG01</p>
	<p>Pro Comp 52413B/52413BMX Stage 1 Lift Kit Installation Instructions for 2005-2006 Ford Super Duty F250-F350</p> <p>Comprehensive installation guide for the Pro Comp 52413B/52413BMX Stage 1 Lift Kit with Add-A-Leaf, designed for 2005-2006 Ford Super Duty F250-F350 4WD vehicles. Includes detailed parts list, step-by-step assembly procedures for front and rear suspension, critical torque specifications, and essential warranty information.</p>
	<p>Pro Comp Stage 2 Lift Kit Installation Guide for Ford Super Duty (2011-2013)</p> <p>Detailed installation instructions and parts list for Pro Comp Stage 2 Lift Kits with Add-A-Leaf for 2011-2013 Ford Super Duty F-250 and F-350 4WD vehicles, including front and rear suspension components, hardware, and torque specifications.</p>

<p>Installation & CARE</p> <p>W063</p>  <p>Notes: Read the instructions carefully before beginning installation. If any parts are damaged, missing, or do not match the description, contact the manufacturer.</p> <p>- 1 -</p>	<p>PZ W063 Running Boards Installation Guide for Ford F-150/F-250/F-350</p> <p>Comprehensive installation and care guide for PZ W063 running boards. Includes tools required, step-by-step instructions, and a detailed parts list for Ford F-150, F-250, and F-350 models.</p>
	<p>Mazda MPV Trailer Hitch Installation Instructions (2004-Present) Cequent 51092</p> <p>Detailed installation guide for the Cequent 51092 trailer hitch on Mazda MPV models (2004-Present). Includes vehicle compatibility, equipment required, parts list, step-by-step instructions, torque specifications, and safety notes.</p>