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Torque TR8008

TORQUE TR8008 Triple Convoluted Air Spring Bag Instruction Manual

Model: TR8008

1. Introduction

This manual provides essential information for the proper handling, installation, operation, and maintenance of your TORQUE TR8008 Triple Convoluted Air Spring Bag. Please read this manual thoroughly before attempting any installation or service to ensure safety and optimal performance.

The TORQUE TR8008 is a high-quality air spring bag designed for heavy-duty applications, offering superior ride comfort and load support. It is engineered to replace various OEM parts, including Firestone 8008, W01-358-8008, Hendrickson S-11637, and C-11637.

2. Safety Information

WARNING: Improper installation or use of air springs can lead to serious injury or vehicle damage. Always consult a qualified professional for installation and service.



Image Description: A warning sign with a phone icon and text advising users to contact their dealer with their VIN for the correct part number before purchase. Below it, an exclamation mark icon with text stating that using the wrong air bag might cause a blowout and serious vehicle damage. The Torque Parts logo is at the bottom.

Before purchasing this product, it is crucial to verify compatibility with your vehicle. Please contact your dealer and provide your Vehicle Identification Number (VIN) to obtain the correct part number. Installing an incorrect air bag can result in a blowout during operation, leading to severe damage to your vehicle and potential injury.
Always ensure the vehicle is properly supported and secured before working on the suspension system. Wear appropriate personal protective equipment (PPE) including safety glasses and gloves.

3. Product Overview

The TORQUE TR8008 is a triple convoluted air spring bag, designed for durability and performance in demanding conditions. It features robust construction to withstand high pressures and continuous cycling.



Image Description: A close-up view of the TORQUE TR8008 Triple Convoluted Air Spring Bag, showing its black rubber convolutions and the silver metal end plate with a product label. The label indicates 'TORQUE TR8008' and includes warning information and specifications.



Image Description: A view of the bottom metal plate of the TORQUE TR8008 Air Spring Bag, showing the air inlet valve and mounting points. A product label with 'TORQUE TR8008' and 'FINAL INSPECTION OK' sticker is visible.

4. Specifications

The following are key specifications for the TORQUE TR8008 Air Spring Bag:

- **Compressed Height:** 4.55 inches
- **Top Plate Width:** 9.00 inches
- **Piston Width:** 9.00 inches
- **Item Weight:** 17.71 pounds
- **Package Dimensions:** 13 x 12 x 5 inches
- **Special Features:** 100% leak test ratio after final assembly.

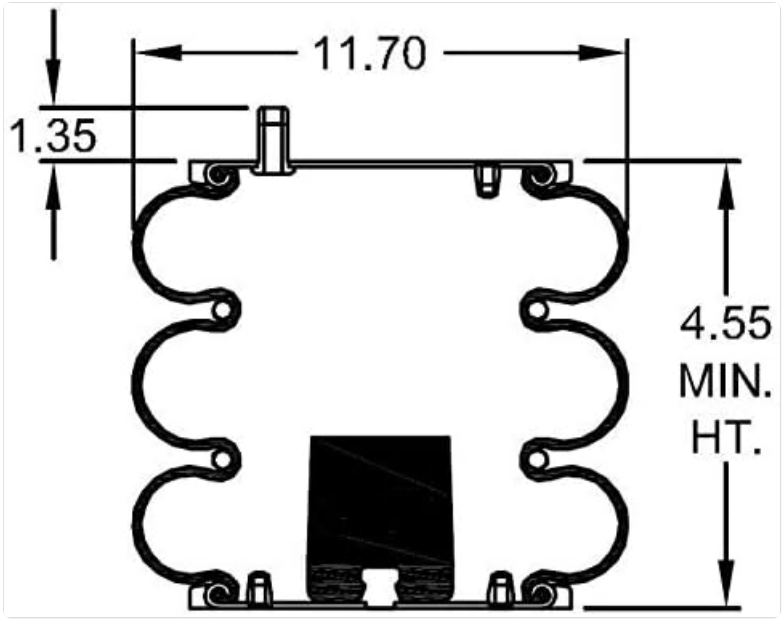


Image Description: A technical diagram illustrating the side profile of the air spring bag with key dimensions. It shows a total height of 11.70 units and a minimum height of 4.55 units, along with a top plate dimension of 1.35 units.

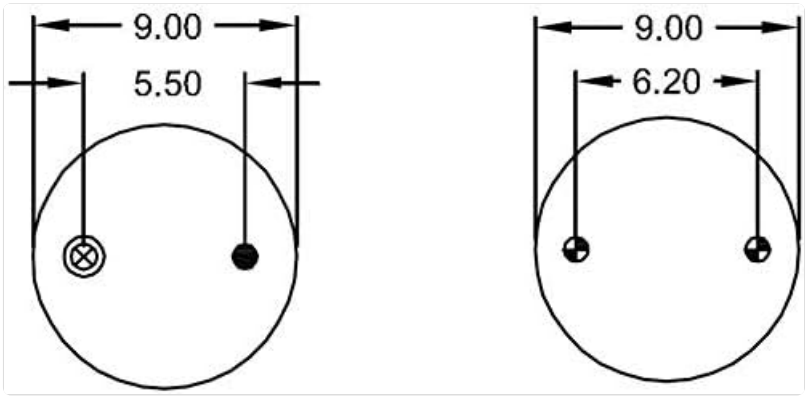


Image Description: Two circular diagrams representing the top view of the air spring bag's mounting plates. Both show a 9.00 unit width. The left diagram indicates a 5.50 unit spacing, and the right diagram indicates a 6.20 unit spacing for mounting points.

5. Compatibility and Fitment

The TORQUE TR8008 is designed as a replacement for several OEM and aftermarket air springs. It replaces the following part numbers:

- Hendrickson S-11637, C-11637
- Ridewell 1003588008C
- Watson & Chalin AS-0019
- Triangle AS-4431
- Firestone W01-358-8008
- Goodyear 3B12-300
- Contitech FT 330-29 431
- AS8008, HDV8008, HD8008
- Sampa SP558008

Important: Do not purchase this air bag solely based on vehicle make and model. This is a common mistake. Always verify the part number with your dealer or compare the detailed specifications and diagrams provided in this manual with your existing air bag to ensure a precise match.

6. Setup and Installation

Installation of air spring bags requires specialized tools and knowledge. It is highly recommended that installation be performed by a certified mechanic or a qualified service technician.
General Installation Guidelines (Consult Service Manual for Specific Vehicle):

1. **Safety First:** Ensure the vehicle is on a level surface, properly chocked, and supported by jack stands. Release air pressure from the existing air suspension system.
2. **Remove Old Air Spring:** Disconnect air lines and remove mounting hardware. Carefully remove the old air spring.
3. **Inspect Mounting Surfaces:** Clean and inspect all mounting surfaces for damage, corrosion, or debris. Ensure they are smooth and free of obstructions.
4. **Install New Air Spring:** Position the new TORQUE TR8008 air spring bag. Secure it using appropriate mounting hardware, ensuring all bolts are torqued to manufacturer specifications.
5. **Connect Air Lines:** Reconnect the air lines, ensuring a secure and leak-free connection.
6. **Inflate and Test:** Slowly inflate the air spring to the recommended pressure. Check for any air leaks using a soapy water solution. Lower the vehicle and perform a functional test.

Refer to your vehicle's specific service manual for detailed, step-by-step installation instructions and torque specifications.

7. Operating Principles

Air spring bags operate by utilizing compressed air to support the vehicle's load and provide a cushioned ride. As air pressure increases, the air spring expands, raising the vehicle and increasing its load-carrying capacity. Conversely, decreasing air pressure lowers the vehicle and reduces stiffness.
Proper air pressure is crucial for optimal performance, ride comfort, and longevity of the air spring. Always operate the air spring within the manufacturer's recommended pressure range for your specific vehicle application.

8. Maintenance

Regular maintenance is essential to extend the life of your TORQUE TR8008 Air Spring Bag:

- **Regular Inspection:** Periodically inspect the air spring for signs of wear, cracks, abrasions, or punctures. Check for any signs of air leaks, especially around the air line connections and mounting points.
- **Cleanliness:** Keep the air spring and surrounding area clean from dirt, debris, and corrosive materials.
- **Air System Check:** Ensure your vehicle's air compressor and air lines are functioning correctly and free of leaks. A faulty air system can lead to premature air spring failure.
- **Pressure Monitoring:** Maintain correct air pressure as specified by your vehicle manufacturer. Over-inflation or under-inflation can damage the air spring.

9. Troubleshooting

If you experience issues with your air spring bag, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Air Leak / Loss of Pressure	Damaged air line, loose fitting, punctured air bag, faulty valve.	Inspect air lines and fittings for damage or looseness. Use soapy water to locate leaks. Replace damaged components or tighten fittings. If the air bag is punctured, it must be replaced.

Problem	Possible Cause	Solution
Uneven Vehicle Height	Unequal air pressure in air springs, faulty height sensor, air line blockage.	Check and adjust air pressure in each air spring. Inspect height sensors and air lines for obstructions or damage. Consult a professional if the issue persists.
Excessive Vibration or Harsh Ride	Incorrect air pressure, worn shock absorbers, damaged mounting components.	Verify and adjust air pressure. Inspect shock absorbers and mounting hardware for wear or damage.

For complex issues or if you are unsure about a repair, always seek assistance from a qualified technician.

10. Warranty

TORQUE Parts offers an industry-first **3-year unlimited mile warranty** on its convoluted air springs. This warranty reflects our commitment to superior quality and customer satisfaction.
To activate your warranty, please register your air spring product through the official Torque Parts website after purchase. Keep your proof of purchase for warranty claims.

11. Support

For further assistance, technical support, or warranty claims, please visit the official Torque Parts website or contact your authorized dealer.
You may also find helpful resources and product information on the AftermarketUS official channels, as AftermarketUS is the official distributor of Torque Parts LLC.

Your browser does not support the video tag.

Video Description: An official video from AftermarketUS, the distributor of Torque Parts, showcasing various heavy-duty aftermarket parts, including air springs. The video highlights the quality and testing processes, such as the 10 million cycle lifespan test for air springs, and emphasizes the 3-year warranty. It also features different product categories like truck body parts, air filters, ABS cables, and pick-up air helper suspension kits.

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