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› [TORQUE Air Bag Spring TR9781 User Manual for Freightliner Trucks](#)

Torque TR9781

TORQUE Air Bag Spring TR9781 User Manual

Model: TR9781 | Brand: Torque

INTRODUCTION

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your TORQUE Air Bag Spring TR9781. Please read this manual thoroughly before attempting any procedures to ensure safety and optimal performance.

Product Features

- **Quality Construction:** Features 4.5 - 5.00 mm thick rubber exceeding OEM requirements, with part number permanently engraved for easy identification.
- **Enhanced Durability:** Equipped with 25% stronger 4140 grade steel studs and stronger composite pistons.
- **Leak Tested:** Undergoes the highest leak test ratio after final assembly to ensure reliability.
- **Broad Compatibility:** Designed as a replacement for various OEM part numbers including Freightliner 681-320-0017, Firestone W01-358-9781, and Goodyear 1R12-603.

Important Safety Information



WARNING



Before Purchasing This Product
Please ask your dealer for the correct part number
for your vehicle, with your VIN number.



**Using the wrong Air Bag might cause your Air Bag
to blow out on the way and lead to
a serious accident.**



Image: A warning sign emphasizing the importance of verifying the correct part number before purchase to prevent serious accidents.

WARNING: Before purchasing or installing this product, always verify the correct part number for your vehicle by consulting your dealer and providing your Vehicle Identification Number (VIN). Using an incorrect air bag can lead to a blowout and serious accidents.

SPECIFICATIONS

Attribute	Value
Manufacturer	Torque
Model	TR9781
Item Weight	15.00 lbs
Extended Height	23.00 inches
Compressed Height	8.75 inches
Top Plate Width	9.00 inches
Piston Width	10.62 inches

OEM Part Numbers Replaced	Firestone 9781, 8537, 8536, W01-358-9781, W01-377-8537, W01-377-8536; Freightliner 681-320-0017, A16-14004-000, A16-17574-001, A16-17574-002; Goodyear 1R12-603; Contitech 910S-16A382; Triangle AS-8382, AS-8999; Automann AB1DF23-9781; AS9781, HDV9781, HD9781; Sampa SP559781-KA
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Product Dimensions

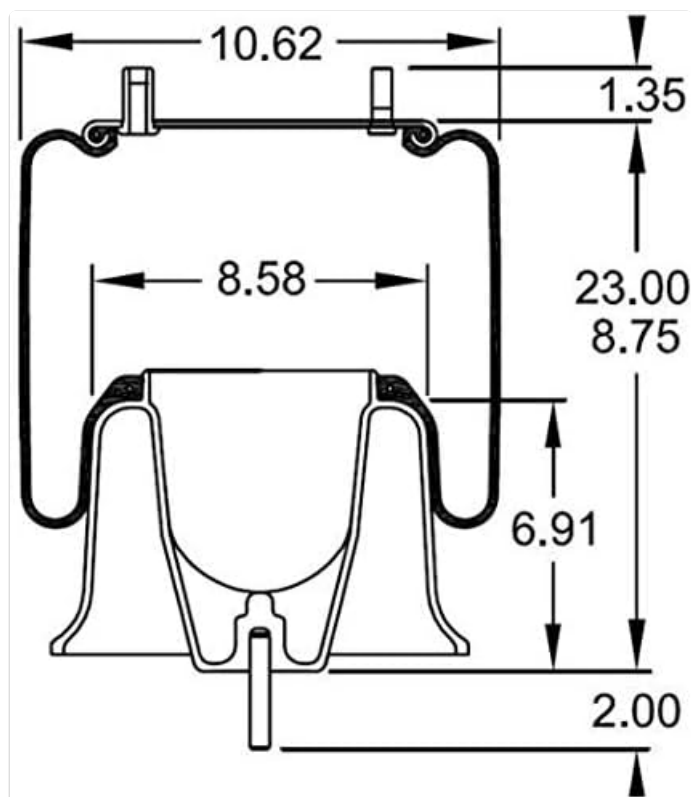


Image: Side view technical diagram illustrating key dimensions of the air bag spring, including extended and compressed heights.

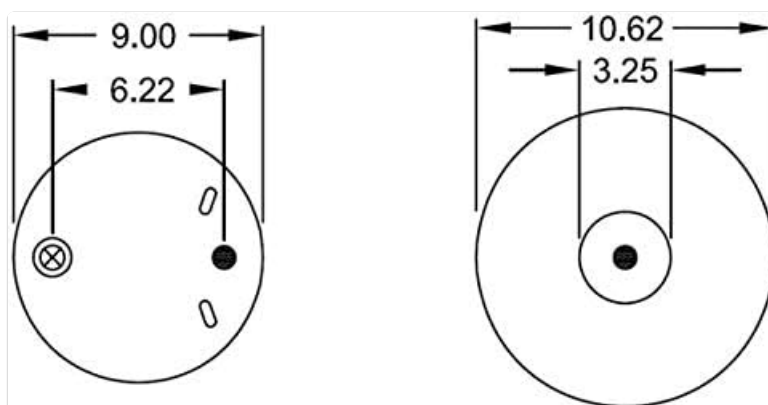


Image: Top view technical diagram showing the top plate and piston widths of the air bag spring.

INSTALLATION GUIDE

Proper installation is crucial for the safety and longevity of your air bag spring. It is highly recommended that installation be performed by a qualified professional or a certified mechanic.



Image: A pair of TORQUE Air Bag Springs, showcasing their robust construction and design.

General Installation Steps (Consult Vehicle Service Manual for Specifics)

1. **Part Verification:** Double-check that the TR9781 air bag spring is the correct replacement part for your specific vehicle model and application. Refer to the OEM part numbers provided in the specifications section.
2. **Safety Precautions:** Ensure the vehicle is properly supported on jack stands or a lift. Disconnect air lines and relieve air pressure from the existing suspension system. Wear appropriate personal protective equipment (PPE).
3. **Removal of Old Unit:** Carefully remove the old air bag spring, noting the orientation and connection points.
4. **Installation of New Unit:** Position the new TORQUE Air Bag Spring TR9781, aligning mounting studs and air inlet ports. Secure all fasteners to the manufacturer's specified torque settings.
5. **Air Line Connection:** Reconnect air lines, ensuring a secure and leak-free connection.
6. **System Test:** Slowly re-pressurize the air suspension system and check for any leaks using a soapy water solution. Verify proper inflation and vehicle ride height.

For detailed, vehicle-specific installation instructions, always refer to your vehicle's official service and repair manual.

OPERATION

The TORQUE Air Bag Spring TR9781 functions as a critical component of your vehicle's air suspension system, providing support and cushioning. It works by inflating and deflating to adjust ride height and absorb road shocks, contributing to a smoother ride and stable load handling.

Video: A short video showcasing the TORQUE Air Bag Spring TR9781 rotating, highlighting its design and form.

Ensure your vehicle's air suspension system is regularly monitored for correct pressure and functionality. Refer to your vehicle's dashboard indicators and owner's manual for normal operating parameters.

MAINTENANCE

Regular inspection and maintenance are essential to prolong the life of your TORQUE Air Bag Springs and ensure continued safe operation of your vehicle's suspension system.

- **Routine Inspection:** Periodically inspect the air bag springs for any signs of wear, cracks, abrasions, or air leaks. Check the condition of air lines and fittings.
- **Cleanliness:** Keep the air bag springs free from dirt, debris, and corrosive substances. Clean with mild soap

and water if necessary.

- **Pressure Monitoring:** Regularly check and maintain the correct air pressure in the suspension system as specified by your vehicle manufacturer.
- **Avoid Overloading:** Do not exceed your vehicle's Gross Vehicle Weight Rating (GVWR) or Gross Axle Weight Rating (GAWR), as overloading can severely stress the air springs.

Video: An informational video detailing the manufacturing process, quality control, and testing of TORQUE Air Spring Bags, emphasizing the use of high-strength materials and rigorous testing procedures.

TROUBLESHOOTING

If you experience issues with your air bag springs, consider the following common problems and general solutions. For complex issues, professional diagnosis and repair are recommended.

- **Air Leakage:** Check air lines, fittings, and the air bag itself for punctures or cracks. A soapy water solution can help identify leaks. Tighten loose fittings or replace damaged components.
- **Uneven Ride Height:** Verify proper air pressure in all air springs. Inspect the air suspension leveling system components, including sensors and valves.
- **Excessive Vibration or Noise:** Inspect mounting hardware for looseness. Check for contact between the air bag and other vehicle components.
- **System Not Inflating/Deflating:** Check the air compressor, air dryer, and control module for proper operation. Ensure no blockages in air lines.

Always consult a qualified technician for any issues that cannot be resolved with basic troubleshooting.

WARRANTY INFORMATION

TORQUE offers an industry-first **3-year unlimited mile warranty** on its rolling lobe/reversible sleeve air springs. This warranty reflects the superior quality and confidence in the product's durability.

To activate your warranty, please register your air spring through the official Torque Parts website. Keep your purchase receipt as proof of purchase.

SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your TORQUE Air Bag Spring TR9781, please contact your dealer or visit the official Torque Parts website.

You can also refer to the comprehensive User Guide (PDF) available for download: [Download User Guide \(PDF\)](#)