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MOOG 81643

MOOG 81643 Coil Spring Set User Manual

OFFICIAL INSTRUCTION GUIDE FOR HONDA PILOT & ACURA MDX

Product Overview



The image displays two black MOOG 81643 coil springs, essential components for a vehicle's suspension system. These springs are engineered to provide like-new steering and improved vehicle stability.

The MOOG 81643 Coil Spring Set is engineered with design features that contribute to like-new steering, ease of installation, and extended service life. These coil springs are a critical part of the vehicle's suspension, influencing ride comfort, handling, and tire wear.

Key Features:

- 100% Load tested to ensure consistent performance.
- Designed to lower stresses for a longer service life.
- Contributes to like-new steering feel.
- Engineered for ease of installation.

Compatibility

This MOOG 81643 Coil Spring Set is compatible with the following vehicle models:

- **2007-2011 Acura MDX**
- **2009-2011 Honda Pilot**

Important: Before purchasing and installing, it is crucial to verify compatibility with your specific vehicle. Always enter all vehicle information (year, make, model, engine, and trim) to ensure the correct part fitment and check any qualifier notes provided by the manufacturer.

Installation Guidelines

Installation of suspension components, including coil springs, requires specialized tools, knowledge, and adherence to safety protocols. It is highly recommended that installation be performed by a qualified automotive technician.



This image illustrates the process of installing a suspension component using wrenches. Proper torque and alignment are critical for safe and effective operation.

General Installation Considerations:

- Ensure the vehicle is properly supported on a lift or jack stands.
- Use appropriate spring compressors if required for safe removal and installation of coil springs.
- Inspect surrounding suspension components for wear or damage and replace as necessary.
- Follow vehicle manufacturer's specifications for torque settings on all fasteners.
- Perform a wheel alignment after installation to prevent premature tire wear and ensure proper handling.

Function and Operation

Coil springs are a fundamental part of a vehicle's suspension system, working in conjunction with shock absorbers or struts. Their primary functions include:

- **Supporting Vehicle Weight:** They bear the static weight of the vehicle, maintaining its ride height.
- **Absorbing Road Shocks:** They compress and rebound to absorb impacts from road irregularities, providing a smoother ride.
- **Maintaining Tire Contact:** By controlling vertical wheel movement, they help keep tires in consistent contact with the road surface, which is crucial for steering, braking, and acceleration.

Properly functioning MOOG coil springs contribute to stable handling and a comfortable driving experience, ensuring the vehicle's suspension system operates as intended.

Maintenance and Care

While coil springs are durable components, regular inspection of your vehicle's suspension system is recommended to ensure their optimal performance and longevity. Pay attention to the following:

- **Visual Inspection:** Periodically check the coil springs for signs of corrosion, cracks, or breakage.
- **Ride Height:** Noticeable sagging at any corner of the vehicle can indicate a worn or broken spring.
- **Tire Wear:** Uneven or premature tire wear can be a symptom of worn or sagging coil springs due to vehicle misalignment.
- **Driving Feel:** A bouncy ride, excessive body roll, or poor handling can also suggest suspension issues.

Addressing these issues promptly can prevent further damage to other suspension components and maintain vehicle safety.

Troubleshooting Common Issues

If you experience any of the following symptoms, your coil springs or other suspension components may require inspection and potential replacement:



Symptom 1: Loose

Steering

A feeling of looseness or excessive play in the steering wheel.



Symptom 2: Steering

Wheel Vibration

Vibrations felt through the steering wheel, especially at certain speeds.



Symptom 3: Premature

Tire Wear

Tires wearing out unevenly or faster than expected, often due to misalignment caused by worn springs.



Symptom 4: Bouncy or Unstable Ride

The vehicle feels excessively bouncy or unstable, particularly over bumps or during turns.

If you observe any of these symptoms, it is advisable to have your vehicle's suspension system inspected by a professional technician to diagnose the root cause and perform necessary repairs.

Product Specifications

Specification	Detail
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Specification	Detail
Manufacturer	MOOG Chassis Products
Brand	MOOG
Model	Moog 81643 Coil Spring Set
Item Model Number	81643
Item Weight	32 pounds
Product Dimensions	17.9 x 14.9 x 7.8 inches
Position	Center
ASIN	B072K738ZT
Date First Available	June 9, 2017

Warranty Information

MOOG products are manufactured to high standards. For specific warranty details regarding the MOOG 81643 Coil Spring Set, please refer to the official MOOG warranty policy available on their website or contact MOOG customer support directly. Retain your proof of purchase for any warranty claims.

Customer Support

For further assistance, technical questions, or support regarding your MOOG 81643 Coil Spring Set, please contact MOOG customer service. You can also visit the official MOOG store for additional product information and resources:

Visit the MOOG
Store