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> Monroe RoadMatic 181661 Suspension Strut and Coil Spring Assembly User Manual

Monroe 181661

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User Manual

1. PRODUCT OVERVIEW

The Monroe RoadMatic 181661 Suspension Strut and Coil Spring Assembly is an engineered solution designed to restore your vehicle's ride and handling characteristics to original equipment (OE) specifications. This fully assembled unit simplifies the strut replacement process by integrating all necessary components, including the strut, coil spring, and upper strut mount, into a single, ready-to-install assembly.

It is specifically designed for various domestic and import passenger cars, light trucks, and SUVs, ensuring a vehicle-specific fit. The assembly features a nitrogen gas-charge and all-weather fluid for consistent performance across different driving conditions.



Figure 1: An exploded view of the Monroe RoadMatic 181661 Suspension Strut and Coil Spring Assembly, showing the strut, coil spring, and mounting hardware.

2. INSTALLATION GUIDE

The Monroe RoadMatic assembly is designed for quicker, safer, and easier installation, eliminating the need for a spring compressor. This integrated design significantly reduces installation time compared to traditional strut replacements.

2.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work.
- Refer to your vehicle's service manual for specific torque specifications and additional safety guidelines.
- Do not attempt installation if you are unsure of any steps. Consult a qualified automotive technician.

2.2 Required Tools

- Socket set and wrenches (metric/standard as required by vehicle)
- Torque wrench
- Jack and jack stands
- Wheel chocks
- Penetrating oil (optional, for rusted bolts)

2.3 Installation Steps

1. Park the vehicle on a level surface, engage the parking brake, and chock the rear wheels.
2. Loosen the lug nuts on the wheel corresponding to the strut being replaced.
3. Raise the vehicle using a jack and secure it with jack stands. Remove the wheel.
4. Locate the existing strut assembly. Disconnect any brake lines, ABS sensor wires, or sway bar links attached to the strut.
5. Remove the two lower bolts connecting the strut to the steering knuckle. A breaker bar may be necessary for stubborn bolts.
6. Under the hood, locate the three upper mounting nuts for the strut tower. Support the strut assembly from below, then carefully remove these nuts.
7. Carefully lower and remove the old strut assembly from the vehicle.
8. Position the new Monroe RoadMatic 181661 assembly into the strut tower opening. Secure it loosely with the three upper mounting nuts.
9. Align the lower mounting holes of the new strut with the steering knuckle. Insert and loosely tighten the two lower bolts.
10. Reconnect any brake lines, ABS sensor wires, or sway bar links that were detached.
11. Torque all mounting bolts and nuts to the vehicle manufacturer's specifications. Refer to your vehicle's service manual for precise values.
12. Reinstall the wheel and hand-tighten the lug nuts.
13. Lower the vehicle completely and then torque the lug nuts to the manufacturer's specifications.
14. Repeat the process for the other side if replacing both struts.
15. After installation, it is highly recommended to have a professional wheel alignment performed to ensure proper vehicle handling and tire wear.

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Engineered and fit and ride tested for domestic and import passenger cars, light trucks and SUVs to meet OE spec



Figure 2: An automotive technician performing work on a vehicle's suspension, demonstrating the typical environment for strut assembly installation.

3. OPERATING CHARACTERISTICS

Once installed, the Monroe RoadMatic 181661 assembly is designed to provide a ride and handling experience consistent with OE specifications. The nitrogen gas-charge and all-weather fluid contribute to:

- **Improved Ride Comfort:** Absorbs road imperfections effectively, leading to a smoother ride.
- **Enhanced Handling:** Maintains consistent tire contact with the road, improving steering response and vehicle stability.
- **Reduced Body Roll:** Minimizes vehicle lean during turns and braking.
- **Consistent Performance:** Designed to perform reliably across a wide range of temperatures and driving conditions.

New struts may feel slightly firmer initially as they settle. The full benefits of the new suspension components will become apparent after a short break-in period.

4. MAINTENANCE

Monroe RoadMatic strut assemblies are designed for long-term, maintenance-free operation. However, regular inspection of your vehicle's suspension components is recommended as part of routine vehicle maintenance.

4.1 Inspection Schedule

- Inspect the struts and surrounding components during every oil change or at least every 12,000 miles (20,000 km).

4.2 What to Look For

- **Fluid Leaks:** Check for any signs of oil or fluid leaking from the strut body.
- **Physical Damage:** Look for dents, bends, or cracks on the strut housing or spring.
- **Mounting Hardware:** Ensure all bolts and nuts are tight and free from corrosion.
- **Tire Wear:** Uneven tire wear can indicate suspension issues.
- **Ride Quality Changes:** Noticeable deterioration in ride comfort, excessive bouncing, or nose-diving during braking.

If any issues are detected, it is advisable to have the vehicle inspected by a qualified technician.

5. TROUBLESHOOTING

While the Monroe RoadMatic assembly is designed for reliability, certain symptoms may indicate a need for further inspection or service.

Symptom	Possible Cause	Action
Excessive Bouncing or Rough Ride	Worn or damaged strut, incorrect installation, or issues with other suspension components.	Inspect the strut for leaks or damage. Verify proper installation and torque. Check other suspension parts (e.g., control arms, ball joints).
Clunking or Knocking Noises	Loose mounting hardware, worn strut mount, or contact with other components.	Check all bolts and nuts for tightness. Inspect the strut mount for wear. Ensure no components are rubbing.
Uneven Vehicle Height	Damaged or fatigued coil spring, or incorrect part application.	Verify the correct part number for your vehicle. Inspect the coil spring for breaks or sagging.
Poor Steering Response or Vehicle Pulling	Misalignment, worn steering components, or uneven strut performance.	Perform a wheel alignment. Inspect steering and suspension components for wear.

If troubleshooting steps do not resolve the issue, or if you are unsure about the diagnosis, it is recommended to seek assistance from a certified automotive technician.

6. SPECIFICATIONS

Key specifications for the Monroe RoadMatic 181661 Suspension Strut and Coil Spring Assembly:

- **Brand:** Monroe
- **Model:** RoadMatic 181661 (Shock Absorber)
- **Manufacturer Part Number:** 181661
- **Auto Part Position:** Front

- **Vehicle Service Type:** Car, Truck
- **Exterior Finish:** Black
- **Item Weight:** Approximately 5 pounds (2.27 kg)
- **Product Dimensions:** Approximately 25.6 x 9.9 x 10.6 inches (65.0 x 25.1 x 26.9 cm)
- **UPC:** 048598038302
- **Automotive Fit Type:** Vehicle Specific Fit

This assembly is engineered to meet OE specifications for fit and ride performance.

7. WARRANTY AND SUPPORT

For detailed information regarding the product warranty, including terms, conditions, and claim procedures, please refer to the official Monroe website or contact Monroe customer service directly. Warranty coverage typically varies by product and region.

For technical support, installation assistance, or any product-related inquiries, please visit the official Monroe website or contact their customer support channels. You can often find contact information and additional resources on the [Monroe Store](#) page or through their corporate website.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

