

Unity 252410

Unity Automotive 252410 Rear Gas Shock Absorber Instruction Manual

Model: 252410 | Brand: Unity Automotive

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Unity Automotive 252410 Rear Gas Shock Absorber. Please read these instructions carefully before proceeding with installation or use to ensure safety and optimal performance.

SAFETY INFORMATION

WARNING: Improper installation or handling of suspension components can lead to serious injury or vehicle damage. Always prioritize safety.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath.
- Do not attempt installation if you are not familiar with automotive suspension systems. Professional installation is highly recommended.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

Important: It is recommended to replace both rear shock absorbers simultaneously for optimal vehicle performance and safety.

PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- (1) Unity Automotive 252410 Rear Gas Shock Absorber
- Necessary mounting hardware (washers, nuts, bushings) (*Please check for the hardware pack upon receipt*)



Image: The Unity Automotive 252410 Rear Gas Shock Absorber, shown with included washers and bushings. The shock absorber is black and cylindrical, with a mounting eyelet at one end and a threaded shaft at the other.

VEHICLE COMPATIBILITY

This Unity Automotive 252410 Rear Gas Shock Absorber is specifically designed for the following vehicle applications:

- **Make:** Ford
- **Model:** Edge
- **Years:** 2011-2015

Please verify fitment with your vehicle's specific year, make, and model before installation to ensure proper function and safety.

INSTALLATION INSTRUCTIONS

Professional installation is strongly recommended. These instructions provide a general overview. Always consult your vehicle's specific service manual for detailed procedures, safety precautions, and torque specifications.

1. **Prepare the Vehicle:** Park the vehicle on a level, firm surface. Engage the parking brake. Loosen the lug nuts on the rear wheels.
2. **Lift and Secure:** Safely lift the rear of the vehicle using a hydraulic jack and support it securely with appropriate jack stands. Ensure the vehicle is stable before proceeding. Remove the rear wheels.
3. **Locate and Remove Old Shock:** Identify the rear shock absorber. Carefully remove the upper and lower mounting bolts/nuts. You may need to support the suspension arm or axle to relieve tension on the shock absorber.
4. **Install New Shock:** Position the new Unity Automotive 252410 shock absorber. Install the upper and lower mounting bolts/nuts, ensuring all bushings and washers are correctly placed according to the vehicle manufacturer's specifications.
5. **Torque Fasteners:** Tighten all mounting hardware to the vehicle manufacturer's specified torque values. Do not overtighten.
6. **Reassemble:** Reinstall the wheels and lower the vehicle safely. Tighten lug nuts to specifications.

7. **Final Check:** Perform a thorough visual inspection to ensure all components are securely fastened, and there is no interference with other vehicle parts.

After installation, it is advisable to have a wheel alignment performed to ensure proper vehicle handling and tire wear.

OPERATION

The Unity Automotive 252410 Rear Gas Shock Absorber is designed to control spring and suspension movement, providing a smoother ride and improved vehicle stability. It dampens oscillations caused by road irregularities, enhancing tire contact with the road surface.

- **Damping:** The internal gas and hydraulic fluid work together to absorb kinetic energy from suspension movement, preventing excessive bouncing.
- **Stability:** Properly functioning shock absorbers reduce body roll during turns and nose-dive during braking, contributing to safer vehicle control.
- **Comfort:** They significantly contribute to passenger comfort by minimizing vibrations and harsh impacts from the road.

New shock absorbers may feel slightly stiffer initially, which is a normal characteristic as they settle into operation.

MAINTENANCE

Regular inspection of your shock absorbers can help identify potential issues early and ensure continued safe operation.

- **Visual Inspection:** Periodically check for signs of fluid leaks around the shock body, bent or damaged rods, or cracked/worn bushings.
- **Noise Check:** Listen for unusual noises (e.g., clunking, rattling) coming from the suspension, which could indicate worn or loose components.
- **Performance Check:** If you notice excessive vehicle bouncing after hitting bumps, poor handling, increased stopping distances, or uneven tire wear, have your suspension system inspected by a qualified technician.

Shock absorbers are sealed units and are not user-serviceable. If a defect or significant wear is found, replacement is necessary.

TROUBLESHOOTING COMMON ISSUES

If you experience any of the following issues after installation or during normal operation, consider these potential causes:

Issue: Excessive Bouncing or Poor Ride Quality

- *Possible Cause:* Worn or defective shock absorber, or only one side replaced.
- *Solution:* Inspect for leaks or damage. Ensure both rear shock absorbers were replaced simultaneously.

Issue: Clunking or Rattling Noises from Suspension

- *Possible Cause:* Loose mounting hardware, worn bushings, or internal shock damage.
- *Solution:* Check all mounting bolts for proper torque. Inspect bushings for wear. If noise persists, professional inspection is advised.

Issue: Uneven Ride Height at the Rear

- *Possible Cause:* Worn or broken coil springs (if applicable), or incorrect shock absorber application.
- *Solution:* Verify correct part application for your vehicle. Inspect coil springs for damage or fatigue.

For complex or persistent issues, always consult a certified automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	Unity
Model Number	252410
Auto Part Position	Rear
Vehicle Service Type	Car
Item Weight	5 pounds
Product Dimensions	20 x 3 x 3 inches
UPC	817778027913

WARRANTY INFORMATION

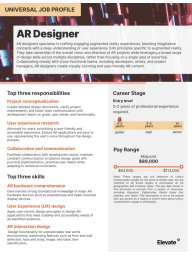
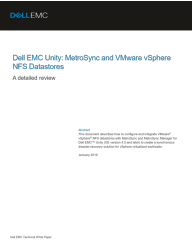


Unity Automotive products are manufactured to high-quality standards. For specific warranty details, including coverage period and terms, please refer to the official Unity Automotive website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

If you have any questions regarding the installation, operation, or maintenance of your Unity Automotive 252410 Rear Gas Shock Absorber, please contact Unity Automotive customer support for assistance.

Website: www.unityautomotive.com

Phone: Refer to the manufacturer's website for current contact numbers.

	<p>AR Designer Universal Job Profile Unity</p> <p>A comprehensive guide to the AR Designer role, detailing responsibilities, required skills, tools, collaborative roles, career progression, and application tips for the augmented reality industry.</p>
	<p>Dell Unity Family: Replacing a Faulted 2U DPE</p> <p>A comprehensive guide for replacing a faulted 2U Disk Processor Enclosure (DPE) in Dell Unity storage systems, including safety precautions, step-by-step removal and installation procedures, and verification steps.</p>
	<p>Dell EMC Unity MetroSync and VMware vSphere NFS Datastores: A Detailed Review for Disaster Recovery</p> <p>Learn how to configure and integrate Dell EMC Unity MetroSync with VMware vSphere NFS datastores for robust, zero-data-loss synchronous disaster recovery. This guide covers setup, replication, and failover procedures.</p>
	<p>Dell EMC Unity All-Flash Storage System: Technical Overview</p> <p>A comprehensive overview of the Dell EMC Unity All-Flash storage system, detailing its architecture, physical specifications, connectivity options, software capabilities, and virtualization solutions. Includes technical data for Unity 350F, 450F, 550F, and 650F models.</p>
	<p>Dell EMC Unity 480/480F, 680/680F, 880/880F Quick Start Guide</p> <p>A quick start guide for installing and configuring Dell EMC Unity 480/480F, 680/680F, 880/880F storage systems. Covers unpacking, rail installation, system mounting, serial number recording, network cabling, power up, and initial management address assignment.</p>
	<p>Greenwood Unity dMEV Fan User Guide: Low Energy Ventilation</p> <p>Comprehensive user guide for the Greenwood Unity decentralised mechanical extract ventilation (dMEV) fan. Learn about its benefits, operation, and maintenance for a healthy home environment.</p>

