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Ford D2BZ-18124-A

Genuine Ford Front Shock Absorber Assembly (D2BZ-18124-A) User Manual

Model: D2BZ-18124-A

Introduction Safety Information Package Contents Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the proper handling, installation, and maintenance of your Genuine Ford Front Shock Absorber Assembly, part number D2BZ-18124-A. This component is designed to meet Ford's stringent quality and performance standards, ensuring optimal vehicle suspension and ride comfort.
The shock absorber is a critical part of your vehicle's suspension system, responsible for dampening spring oscillations and providing a smooth, controlled ride. Regular inspection and timely replacement are crucial for vehicle safety and performance.

2. Safety Information

Warning: Automotive repair can be dangerous. Always follow proper safety procedures and use appropriate tools. If you are not experienced with vehicle suspension work, it is highly recommended to seek professional assistance from a certified mechanic.

- 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. Never rely solely on a jack.
- Disconnect the vehicle's battery before working on electrical components, if applicable.
- Be aware of potential hazards such as compressed springs, hot engine components, and sharp edges.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

3. Package Contents

Verify that all components are present and undamaged upon receipt.

- One (1) Genuine Ford Front Shock Absorber Assembly (D2BZ-18124-A)

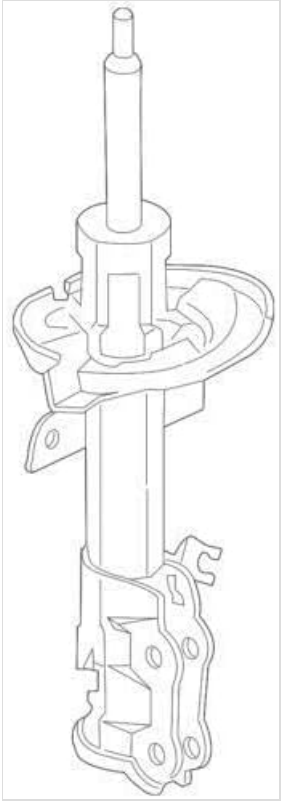


Image 3.1: Packaging for the Ford D2BZ-18124-A Front Shock Absorber Assembly. The label clearly displays the part number D2BZ-18124-A and indicates "SHOCK ABSORBER".

4. Installation

Installation of a front shock absorber assembly requires specialized tools and automotive knowledge. It is strongly recommended that this procedure be performed by a qualified and certified automotive technician.

4.1 General Installation Steps (Consult Vehicle Service Manual for Specifics)

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the lug nuts on the front wheels.
2. **Lift and Secure:** Safely lift the front of the vehicle using a hydraulic jack and support it securely with jack stands. Remove the front wheels.
3. **Access Shock Absorber:** Locate the front shock absorber assembly. This typically involves removing brake lines, ABS sensor wires, and possibly sway bar links or control arm bolts.
4. **Compress Spring (if applicable):** If the shock absorber is part of a strut assembly with a coil spring, a spring compressor tool will be required to safely relieve tension from the spring before disassembly.
5. **Remove Old Assembly:** Unbolt the top mounting nuts from the engine bay and the lower mounting bolts from the steering knuckle or control arm. Carefully remove the old shock absorber assembly.
6. **Install New Assembly:** Position the new Ford D2BZ-18124-A shock absorber assembly into place. Secure the top mounting nuts and lower mounting bolts, tightening them to the vehicle manufacturer's specified torque values.
7. **Reassemble Components:** Reattach any removed brake lines, ABS sensor wires, and other suspension components. Ensure all connections are secure.
8. **Lower Vehicle and Test:** Reinstall the wheels, lower the vehicle, and tighten lug nuts to specifications. Perform a test drive to ensure proper function and alignment. A wheel alignment is often recommended after suspension work.



Image 4.1: A detailed view of the Genuine Ford Front Shock Absorber Assembly (D2BZ-18124-A). This image shows the complete unit, including the upper mounting plate and the lower attachment points.

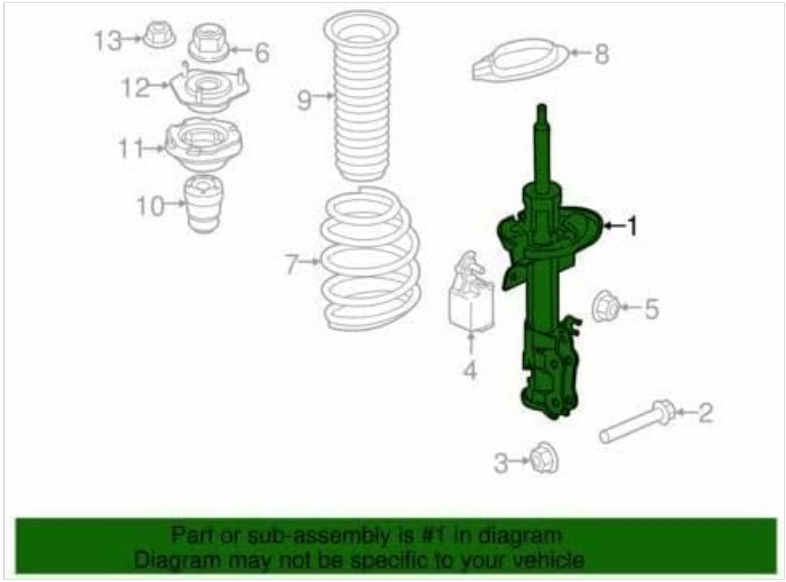


Image 4.2: A technical line drawing illustrating the Ford D2BZ-18124-A Shock Absorber. This diagram provides a simplified representation of the component's structure and mounting points.

Image 4.3: An exploded view diagram of typical front suspension components. The shock absorber assembly is highlighted as item #1, showing its relationship to other parts like the coil spring, upper mount, and lower mounting bolts. This diagram is for illustrative purposes; specific vehicle configurations may vary.

5. Operation

The Ford D2BZ-18124-A Front Shock Absorber Assembly operates by converting kinetic energy from suspension movement into thermal energy, which is then dissipated. This dampens the oscillations of the vehicle's springs, preventing excessive bouncing and maintaining tire contact with the road surface. Proper operation ensures vehicle stability, handling, and passenger comfort.

Once installed, the shock absorber functions continuously as the vehicle travels, reacting to road imperfections and vehicle dynamics. No user intervention is required for its operation.

6. Maintenance

Genuine Ford shock absorbers are designed for long-term reliability with minimal maintenance. However, periodic inspection is recommended as part of your vehicle's routine service schedule.

6.1 Inspection Guidelines

- **Visual Check:** Inspect the shock absorber for signs of fluid leaks, which indicate a seal failure.
- **Physical Damage:** Look for dents, bends, or corrosion on the shock body or piston rod.
- **Mounting Points:** Check the upper and lower mounting points for looseness, wear, or damage.
- **Bushings:** Examine rubber bushings for cracks, deterioration, or excessive play.
- **Performance:** Pay attention to changes in ride quality, such as excessive bouncing, nose-diving during braking, or body roll during turns. These can indicate worn shock absorbers.

If any issues are detected during inspection, consult a qualified mechanic for further diagnosis and potential replacement.

7. Troubleshooting

If you experience any of the following symptoms, your shock absorbers may require inspection or replacement:

- **Excessive Bouncing:** The vehicle continues to bounce after hitting a bump, rather than settling quickly.
- **Poor Ride Comfort:** A harsh or overly soft ride, or feeling every bump in the road.
- **Nose Dive or Squat:** The front of the vehicle dips excessively during braking, or the rear squats during acceleration.
- **Excessive Body Roll:** The vehicle leans significantly when cornering.
- **Uneven Tire Wear:** Scalloped or cupped wear patterns on tires can indicate worn suspension components.
- **Fluid Leaks:** Visible oil or fluid leaking from the shock absorber body.

These symptoms can also be indicative of other suspension or steering issues. A professional diagnosis by a certified mechanic is recommended to accurately identify the root cause.

8. Specifications

Feature	Detail
Part Number	D2BZ-18124-A
Brand	Ford
Auto Part Position	Front
Vehicle Service Type	Car
Exterior Finish	Black
Item Weight	4.2 pounds (approx.)
Package Dimensions	19.4 x 4 x 2.9 inches (approx.)

Feature	Detail
Country of Origin	United States
OEM Status	Genuine OEM Ford Part
UPC	0031508622890

9. Warranty & Support

9.1 Warranty Information

As a Genuine Ford Part, this shock absorber assembly is covered by Ford's standard parts warranty. Specific warranty terms and conditions may vary based on your region and the point of purchase. Please retain your proof of purchase for warranty claims.
For detailed warranty information, please refer to the documentation provided with your vehicle or contact an authorized Ford dealership.

9.2 Customer Support

For technical assistance, installation inquiries, or warranty support, please contact your local authorized Ford dealership or visit the official Ford Motor Company website.
Ford Motor Company Official Website: www.ford.com

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