

Freightliner 18-68767-000

Freightliner Engine Mount Isolator User Manual

Model: 18-68767-000

1. INTRODUCTION

This manual provides essential information regarding the Freightliner 18-68767-000 Engine Mount Isolator. It covers product overview, installation guidelines, maintenance, and specifications. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the component.

2. PRODUCT OVERVIEW

The Freightliner 18-68767-000 Engine Mount Isolator is a critical component designed to support the engine and absorb vibrations, preventing them from transferring to the vehicle's chassis. This particular model is blue, measuring 181 mm x 89 mm, and is engineered for specific Freightliner applications.



Figure 2.1: Front view of the Freightliner 18-68767-000 Engine Mount Isolator. This component is designed to dampen engine vibrations and secure the engine within the vehicle's frame.

Key features include its robust construction and precise dimensions, ensuring a proper fit and effective vibration isolation for compatible Freightliner vehicles.

3. SETUP AND INSTALLATION

Installation of the engine mount isolator requires specialized tools and technical knowledge. It is highly recommended that installation be performed by a qualified professional or certified mechanic.

3.1. Safety Precautions

- Ensure the vehicle is securely supported on jack stands or a lift.
- Disconnect the battery to prevent accidental electrical discharge.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Refer to the vehicle's specific service manual for detailed engine removal and installation procedures.

3.2. Installation Steps (General)

1. Safely support the engine using an engine hoist or suitable support tool.
2. Locate and remove the old engine mount isolator, noting its orientation.
3. Clean the mounting surfaces thoroughly.
4. Position the new Freightliner 18-68767-000 isolator in the correct orientation.
5. Install all fasteners, tightening them to the manufacturer's specified torque values.
6. Carefully lower the engine onto the new mount.
7. Reconnect any disconnected components and the battery.
8. Perform a final inspection to ensure all connections are secure.

Note: *Improper installation can lead to component failure, vehicle damage, or personal injury. Always consult a professional.*

4. PURPOSE AND FUNCTION

The Freightliner Engine Mount Isolator serves a crucial role in vehicle dynamics and comfort. Its primary functions are:

- **Engine Support:** It securely holds the engine in place within the vehicle's frame, preventing excessive movement during acceleration, braking, and cornering.
- **Vibration Damping:** The isolator's design, often incorporating rubber or other dampening materials, absorbs vibrations generated by the engine. This significantly reduces noise and vibration transmitted to the passenger cabin, enhancing ride comfort.
- **Shock Absorption:** It helps to absorb shocks and impacts from road conditions, protecting the engine and transmission from undue stress.

This component operates passively, continuously performing its function as long as it is correctly installed and in good condition.

5. MAINTENANCE

Engine mount isolators are wear-and-tear components and do not typically require routine maintenance beyond periodic inspection. Regular inspection can help identify potential issues before they lead to more significant problems.

5.1. Inspection Guidelines

- **Visual Check:** Inspect the isolator for visible cracks, tears, or deterioration of the rubber material. Look for signs of fluid leaks (if applicable to the specific mount type) or excessive corrosion on metal parts.
- **Movement Check:** With the engine off and the vehicle safely supported, gently try to rock the engine. Excessive movement or clunking sounds may indicate a worn or failed mount.
- **Vibration/Noise Check:** Pay attention to increased vibrations or unusual noises (e.g., thumping,

clunking) coming from the engine bay, especially during acceleration, braking, or shifting gears.

If any signs of wear or damage are observed, it is recommended to have the component inspected and replaced by a qualified technician.

6. TROUBLESHOOTING

Issues with engine mount isolators typically manifest as increased noise or vibration. Here are common symptoms and potential causes:

Symptom	Possible Cause	Action
Excessive engine vibration felt in the cabin	Worn or damaged isolator rubber	Inspect isolator; replace if worn.
Clunking or banging noises from engine bay	Completely failed isolator, loose fasteners	Inspect isolator and mounting bolts; replace or tighten as necessary.
Engine appears to sag or shift excessively	Severely worn or broken isolator	Immediate inspection and replacement recommended.
Increased noise during acceleration or braking	Isolator no longer effectively dampening engine movement	Inspect isolator for wear.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a professional mechanic to diagnose the issue accurately and perform necessary repairs.

7. SPECIFICATIONS

The following are the technical specifications for the Freightliner 18-68767-000 Engine Mount Isolator:

Part Number: 18-68767-000

Brand: Freightliner

Model: MOUNT

Dimensions: Approximately 181 mm x 89 mm (as per description)

Package Dimensions: 5.28 x 3.76 x 1.02 inches

Item Weight: 2.15 pounds

Exterior Finish: Machined

Position: Front (as per specifications)

Color: Blue (as per description)

8. WARRANTY AND SUPPORT

For information regarding the warranty of the Freightliner 18-68767-000 Engine Mount Isolator, please refer to the warranty documentation provided at the time of purchase or contact your authorized Freightliner dealer or the seller directly. Warranty terms and conditions may vary.

For technical support or further inquiries, please contact Freightliner customer service or the retailer from whom the product was purchased. Ensure you have the product model number (18-68767-000) and purchase details available when seeking support.

