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› Freightliner A22-69882-000 M2 Windshield Wiper Motor and Linkage Assembly User Manual

Freightliner A22-69882-000

Freightliner A22-69882-000 M2 Windshield Wiper Motor and Linkage Assembly User Manual

Model: A22-69882-000

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Freightliner A22-69882-000 M2 Windshield Wiper Motor and Linkage Assembly. Please read this manual thoroughly before attempting any installation or service to ensure safe and correct usage.

2. PRODUCT OVERVIEW

The Freightliner A22-69882-000 is a complete windshield wiper motor and linkage assembly designed for Freightliner M2 vehicles. It is responsible for driving the wiper arms across the windshield to ensure clear visibility during adverse weather conditions. The assembly includes the electric motor, the connecting linkage arms, and mounting brackets.



Figure 2.1: Overview of the Freightliner A22-69882-000 Windshield Wiper Motor and Linkage Assembly. This image shows the complete unit, including the motor, linkage arms, and mounting points.



Figure 2.2: Detailed view of the electric wiper motor component. This image highlights the motor unit with its electrical connector and mounting bracket.



Figure 2.3: Close-up of one end of the linkage arm, showing the pivot point and connection mechanism for the wiper arm.

3. SAFETY INFORMATION

Always observe the following safety precautions when handling or installing automotive components:

- **Disconnect Power:** Before beginning any work, ensure the vehicle's battery is disconnected to prevent electrical shock or damage to the vehicle's electrical system.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Professional Installation Recommended:** Installation of this component may require specialized tools and knowledge. If you are not confident in your ability to perform the installation safely and correctly, seek assistance from a qualified automotive technician.
- **Secure Components:** Ensure all fasteners are tightened to the manufacturer's specifications to prevent components from loosening during vehicle operation.
- **Check for Obstructions:** After installation, verify that the wiper arms move freely and do not obstruct the driver's view or contact any part of the vehicle body.

4. SETUP AND INSTALLATION

The following steps provide a general guide for installing the Freightliner A22-69882-000 Wiper Motor and Linkage Assembly. Specific procedures may vary based on the vehicle model and configuration. Refer to your vehicle's service manual for detailed instructions.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the battery.
2. **Access Wiper Assembly:** Depending on the vehicle, this may involve removing the cowl panel, hood insulation, or other components to gain access to the existing wiper motor and linkage.
3. **Remove Old Assembly:** Disconnect the electrical connector from the old wiper motor. Carefully unbolt and remove the old wiper motor and linkage assembly from its mounting points. Note the orientation and connections for reassembly.
4. **Install New Assembly:** Position the new Freightliner A22-69882-000 assembly into place. Secure it with the appropriate bolts, ensuring all mounting points are aligned and tightened.

5. **Connect Electrical:** Reconnect the electrical connector to the new wiper motor.
6. **Test Functionality:** Reconnect the battery. Turn the ignition to the "ON" position (do not start the engine) and test the wiper system. Ensure the wipers move smoothly through their full range of motion and park correctly.
7. **Reassemble:** Once functionality is confirmed, reassemble any removed panels or components.

Note: Ensure the wiper arms are installed in the correct park position after the motor and linkage are installed and tested.

5. OPERATING INSTRUCTIONS

Once installed, the Freightliner A22-69882-000 Wiper Motor and Linkage Assembly operates in conjunction with your vehicle's existing wiper control system. The motor drives the linkage, which in turn moves the wiper arms across the windshield.

- **Wiper Speeds:** The motor supports various wiper speeds (intermittent, low, high) as selected via the vehicle's wiper stalk or control panel.
- **Washer Function:** The motor is designed to work with the vehicle's windshield washer system. Activating the washer will typically engage the wipers for a few cycles.
- **Automatic Parking:** The motor includes an internal mechanism to ensure the wiper arms return to their designated park position when turned off.

Refer to your Freightliner M2 vehicle's owner's manual for specific instructions on operating the windshield wiper system.

6. MAINTENANCE

The Freightliner A22-69882-000 Wiper Motor and Linkage Assembly is designed for durability and typically requires minimal maintenance. However, regular checks of the overall wiper system are recommended:

- **Wiper Blades:** Regularly inspect and replace wiper blades when they show signs of wear, streaking, or chattering. Worn blades can put undue strain on the wiper motor.
- **Linkage Inspection:** Periodically check the linkage arms for any signs of corrosion, bending, or excessive play at the pivot points. Ensure all connections are secure.
- **Clean Windshield:** Keep the windshield clean to reduce friction and extend the life of the wiper blades and motor.
- **Fluid Levels:** Ensure the windshield washer fluid reservoir is adequately filled.

7. TROUBLESHOOTING

If you experience issues with your windshield wiper system after installing the Freightliner A22-69882-000 assembly, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Wipers do not move	Blown fuse, faulty electrical connection, motor failure.	Check vehicle's fuse box for a blown wiper fuse and replace if necessary. Verify electrical connector is securely attached to the motor. If fuse is good and connection is secure, the motor may require further diagnosis by a professional.

Problem	Possible Cause	Solution
Wipers move slowly or intermittently	Low voltage, worn motor, binding linkage, obstruction.	Check battery voltage. Inspect linkage for any obstructions or signs of binding. Ensure wiper blades are not frozen to the windshield.
Wipers do not park correctly	Incorrect installation of wiper arms, faulty park switch in motor.	Ensure wiper arms were installed in the correct park position. If the issue persists, the motor's internal park switch may be faulty.
Excessive noise during operation	Dry linkage, worn bushings, motor issue.	Lubricate linkage pivot points if accessible. Inspect for worn bushings. If noise originates from the motor, professional inspection is recommended.

For complex issues or if troubleshooting steps do not resolve the problem, consult a certified Freightliner service center or a qualified automotive technician.

8. SPECIFICATIONS

- **Part Number:** A22-69882-000
- **Brand:** Freightliner
- **Component Type:** Windshield Wiper Motor and Linkage Assembly
- **Application:** Freightliner M2 (verify compatibility with your specific M2 model year)
- **Manufacturer:** FREIGHTLINER
- **ASIN:** B094XJQLS5
- **Date First Available:** August 11, 2023

9. WARRANTY AND SUPPORT

Specific warranty information for the Freightliner A22-69882-000 Wiper Motor and Linkage Assembly is typically provided at the point of purchase or through authorized Freightliner dealerships. Please retain your proof of purchase for warranty claims.

For technical support, parts inquiries, or warranty service, please contact your authorized Freightliner dealer or the seller from whom the product was purchased. You may also visit the official Freightliner website for general support information.

Online Resources: www.freightliner.com