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› Dorman 621-075 Engine Cooling Fan Assembly User Manual

Dorman 621-075

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Model: 621-075

1. INTRODUCTION

This manual provides essential information for the Dorman 621-075 Engine Cooling Fan Assembly. This component is engineered to replace the original radiator fan assembly in specific vehicle models, ensuring proper engine cooling performance. Please read this manual thoroughly before installation and operation.

Important: Installation of automotive components should ideally be performed by a qualified technician. Improper installation can lead to vehicle damage or personal injury.

2. PRODUCT OVERVIEW

The Dorman 621-075 Engine Cooling Fan Assembly is a direct-fit replacement designed to restore the cooling system's efficiency. It includes the fan motor, blades, and shroud, pre-assembled for convenience.



Image 1: The Dorman 621-075 Engine Cooling Fan Assembly, showing the fan blades, motor, and shroud. This image provides a full view of the product as it would appear before installation.

Key features include:

- Precision-engineered to match original equipment fit and performance.
- Components are rigorously tested for durability and effectiveness.
- Designed for specific vehicle applications.

3. COMPATIBILITY

This Dorman 621-075 Engine Cooling Fan Assembly is compatible with the following vehicle models:

- **Mazda 5:** 2006, 2007, 2008, 2009, 2010

Always verify fitment for your specific vehicle's make, model, and trim level before installation.

4. PACKAGE CONTENTS

Upon opening the package, ensure all components are present and undamaged:

- 1 x Dorman 621-075 Radiator Fan Assembly

5. SAFETY INFORMATION

Adhere to all safety precautions when working on your vehicle's cooling system. Failure to do so may result in serious injury or damage to the vehicle.

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure the engine is cool before working on the cooling system to avoid burns from hot coolant or engine components.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep hands and tools clear of fan blades, especially when the engine is running or the battery is connected.

6. INSTALLATION (SETUP)

The following is a general guide for installing the Dorman 621-075 Engine Cooling Fan Assembly. Specific steps may vary by vehicle model. Consult your vehicle's service manual for detailed instructions.

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and allow the engine to cool completely. Disconnect the negative terminal of the battery.
2. **Drain Coolant (if necessary):** Depending on the vehicle, it may be necessary to drain some or all of the engine coolant to access the fan assembly.
3. **Remove Obstructions:** Carefully remove any components that obstruct access to the fan assembly, such as air intake ducts or radiator hoses.
4. **Disconnect Electrical Connector:** Locate and disconnect the electrical connector from the existing fan assembly.



Image 2: A close-up view of the electrical connector on the fan assembly. Ensure this connector is securely attached during installation.

5. **Remove Old Fan Assembly:** Unbolt or unclip the old fan assembly from the radiator shroud or vehicle frame. Carefully lift it out of the engine bay.
6. **Install New Fan Assembly:** Position the new Dorman 621-075 assembly into place. Secure it with the appropriate bolts or clips, ensuring it is seated correctly.
7. **Connect Electrical Connector:** Reconnect the electrical connector to the new fan assembly, ensuring a secure connection.
8. **Reinstall Obstructions:** Reinstall any components that were removed to gain access.
9. **Refill Coolant (if necessary):** If coolant was drained, refill the system to the manufacturer's recommended level. Bleed the cooling system as per vehicle specifications.
10. **Reconnect Battery:** Reconnect the negative terminal of the battery.
11. **Test Operation:** Start the engine and allow it to reach operating temperature. Observe the fan operation to ensure it cycles on and off correctly. Check for any leaks.

If you are unsure about any step, seek assistance from a certified automotive technician.

7. OPERATION

The engine cooling fan assembly operates automatically, controlled by the vehicle's engine control unit (ECU) or a thermal switch. Its primary function is to draw air through the radiator to dissipate heat from the engine coolant, especially when the vehicle is stationary or moving at low speeds, or when the air conditioning is active.

- The fan will activate when the engine coolant reaches a predetermined temperature.
- It may also activate when the air conditioning system is turned on to assist in cooling the condenser.
- Normal operation involves the fan cycling on and off as needed to maintain optimal engine temperature.

8. MAINTENANCE

The Dorman 621-075 Engine Cooling Fan Assembly is designed for long-term reliability and typically requires minimal direct maintenance. However, regular inspection of the overall cooling system is recommended.

- **Visual Inspection:** Periodically inspect the fan blades for damage, cracks, or obstructions. Ensure the fan shroud is intact and securely mounted.
- **Electrical Connections:** Check the electrical connector for corrosion or loose connections.
- **Coolant Level and Condition:** Regularly check the engine coolant level and condition. Ensure it is clean and at the appropriate concentration.
- **Radiator Fins:** Keep the radiator fins clean and free of debris (leaves, insects, dirt) to ensure efficient airflow.

9. TROUBLESHOOTING

If you experience issues with your engine cooling fan, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Fan does not turn on.	Blown fuse, faulty relay, wiring issue, faulty temperature sensor, faulty fan motor.	Check fuses and relays. Inspect wiring for damage. Test temperature sensor. If motor is faulty, replacement may be necessary.
Fan runs constantly.	Faulty temperature sensor, faulty relay, wiring issue.	Test temperature sensor. Check relay for sticking. Inspect wiring.
Excessive noise from fan.	Damaged fan blades, worn motor bearings, foreign object obstruction.	Inspect fan blades for damage. Remove any obstructions. If motor bearings are worn, replacement is required.
Engine overheating.	Fan not operating, low coolant, clogged radiator, faulty thermostat, water pump issue.	Verify fan operation. Check coolant level and radiator condition. Consult a technician for other cooling system components.

For complex issues or if you are unable to diagnose the problem, it is recommended to consult a professional automotive technician.

10. SPECIFICATIONS

Attribute	Detail
Brand	Dorman
Model Number	621-075
Part Type	Engine Cooling Fan Assembly
Item Weight	0.01 ounces (Note: This seems unusually low, likely a placeholder or shipping weight discrepancy. Refer to actual product for precise weight.)
Product Dimensions	32.44 x 7.64 x 24.45 inches

Attribute	Detail
OEM Part Numbers	76098; CF21019; FA70574; LFB715025B; LFB715025C
UPC	019495242482

11. WARRANTY AND SUPPORT

Dorman products are manufactured to high-quality standards. While specific warranty details are not provided in this manual, Dorman generally stands behind its products. For warranty claims or technical support, please refer to the official Dorman website or contact their customer service directly.

Dorman offers:

- Installation and repair training resources.
- ASE Blue Seal Certified Technical Support.
- Over 100 years of innovative history in the automotive aftermarket.

For further assistance, visit the [Dorman Store on Amazon](#) or the official Dorman website.

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