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Dorman 621-526

Dorman 621-526 Engine Cooling Fan Assembly User Manual

For Chrysler 300, Dodge Challenger, and Dodge Charger Models

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Dorman 621-526 Engine Cooling Fan Assembly. This assembly is engineered to match the fit and performance of the original equipment radiator fan on specific vehicle models, ensuring effective engine cooling.

1.1 Product Overview

The Dorman 621-526 is a complete engine cooling fan assembly designed for direct replacement. It includes the fan motor, blades, and shroud, providing a comprehensive solution for restoring your vehicle's cooling system functionality.



Image 1.1: The Dorman 621-526 Engine Cooling Fan Assembly, showing the fan blades, motor, and shroud.

1.2 Vehicle Compatibility

This Dorman 621-526 Engine Cooling Fan Assembly is compatible with the following vehicle models:

- **Chrysler 300:** 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
- **Dodge Challenger:** 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
- **Dodge Charger:** 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Always verify fitment for your specific vehicle year, make, and model before installation.



Image 1.2: Visual representation of vehicle compatibility for the Dorman 621-526 fan assembly.

2. SAFETY INFORMATION

Read and understand all safety warnings and instructions before attempting installation or maintenance. Failure to follow these instructions may result in personal injury or damage to the vehicle.

2.1 General Safety Precautions

- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any work on the cooling system or electrical components to prevent accidental starting or electrical shock.
- **Hot Surfaces:** The engine and cooling system components can be extremely hot. Allow the engine to cool completely before working on the fan assembly.
- **Rotating Parts:** The cooling fan contains rotating blades that can cause severe injury. Never operate the engine with the fan shroud removed or attempt to stop the fan with your hands or tools.
- **Eye Protection:** Wear appropriate eye protection to guard against debris or splashes of coolant.
- **Professional Installation:** If you are not experienced with automotive repairs, it is highly recommended to have this part installed by a qualified professional technician.
- **Coolant Handling:** Dispose of old engine coolant properly according to local regulations.

3. PACKAGE CONTENTS

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

- 1x Dorman 621-526 Engine Cooling Fan Assembly

No additional hardware or accessories are typically included as this is a direct replacement unit designed to utilize existing vehicle hardware.

4. INSTALLATION

The following steps provide a general guide for installing the Dorman 621-526 Engine Cooling Fan Assembly. Specific procedures may vary depending on your vehicle's configuration. Refer to your vehicle's service manual for detailed instructions.

4.1 Tools Required (General)

- Socket wrench set
- Screwdriver set
- Pliers
- Coolant drain pan
- New engine coolant (if draining is necessary)

4.2 Installation Steps

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

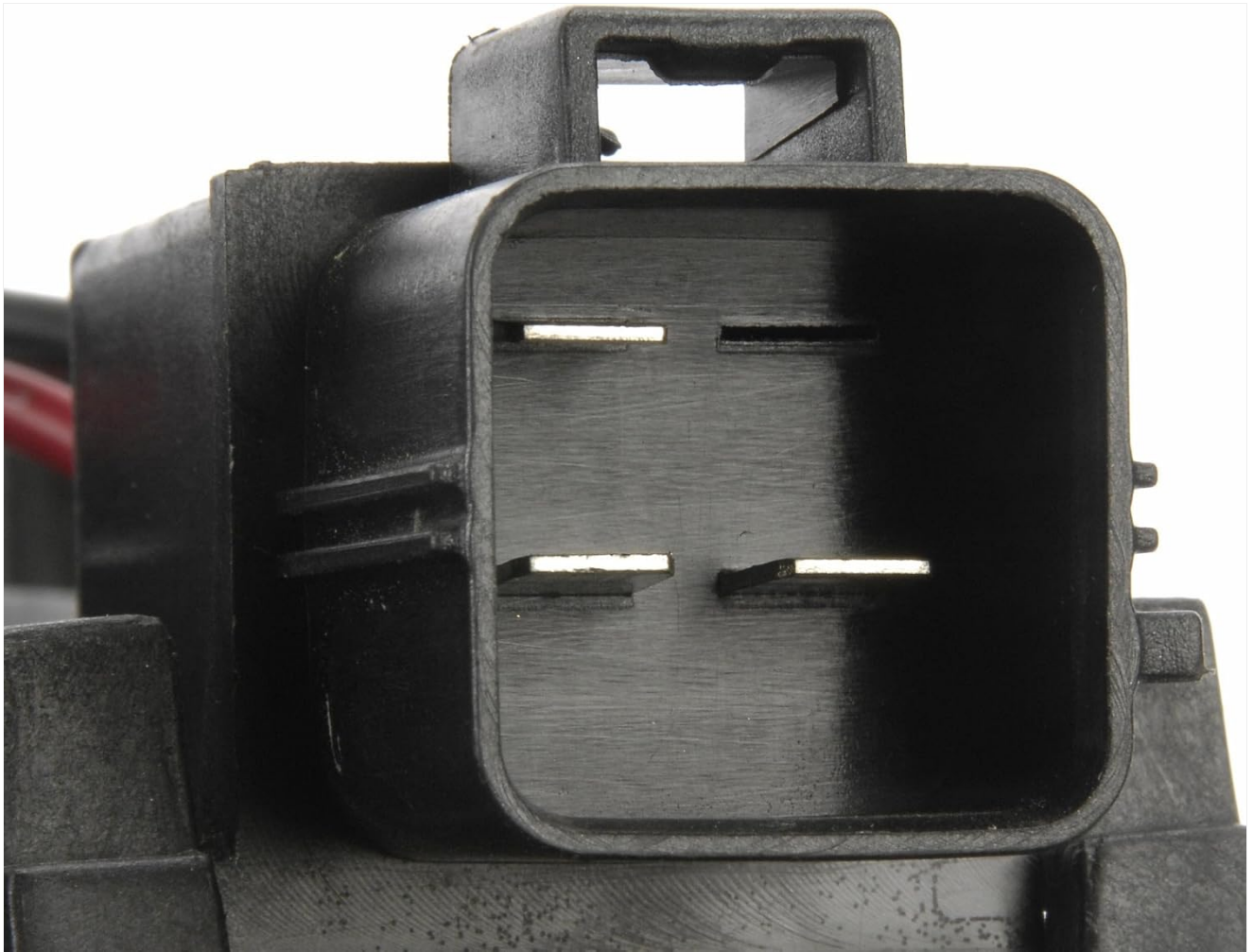


Image 4.1: Close-up view of the 2-pin electrical connector on the fan assembly.

5. **Remove Mounting Hardware:** Unbolt or unclip the old fan assembly from the radiator shroud or vehicle frame. Note the location and type of all fasteners.
6. **Remove Old Assembly:** Carefully lift and remove the old fan assembly from the engine bay. Be mindful of any sharp edges or remaining hoses.
7. **Install New Assembly:** Position the new Dorman 621-526 fan assembly into place. Ensure it aligns correctly with the mounting points.
8. **Secure Mounting Hardware:** Reinstall all mounting bolts and clips, tightening them to the manufacturer's specifications. Do not overtighten.
9. **Connect Electrical Connector:** Firmly connect the electrical connector(s) to the new fan assembly. Ensure a secure connection.
10. **Reinstall Obstructions:** Reinstall any components that were removed to gain access (hoses, ducts, covers).
11. **Refill Coolant (if drained):** If coolant was drained, refill the cooling system with the appropriate type and amount of coolant. Bleed the system of air as per your vehicle's service manual.
12. **Reconnect Battery:** Reconnect the negative battery terminal.
13. **Test System:** Start the engine and allow it to reach operating temperature. Monitor the engine temperature gauge and observe the fan operation. Ensure the fan cycles on and off as expected and that there are no leaks.

5. OPERATING PRINCIPLES

The engine cooling fan assembly is a critical component of your vehicle's cooling system. Its primary function is to draw air through the radiator, facilitating the dissipation of heat from the engine coolant. This process helps maintain the engine at its optimal operating temperature, preventing overheating.

The fan is typically controlled by the vehicle's engine control unit (ECU) based on coolant temperature readings. It will activate when the engine reaches a predetermined temperature threshold or when the air conditioning system is engaged, providing additional airflow for the condenser.



Image 5.1: The Dorman fan assembly is designed to match OEM fit and performance.



Image 5.2: The Dorman fan assembly provides a complete package with materials and components matching the original.

6. MAINTENANCE

Regular inspection of your engine cooling fan assembly can help ensure its longevity and proper function.

6.1 Inspection

- **Visual Check:** Periodically inspect the fan blades for cracks, damage, or excessive dust/debris buildup. Check the shroud for cracks or loose mounting points.
- **Electrical Connections:** Ensure the electrical connector remains securely attached and free from corrosion.
- **Fan Operation:** Listen for unusual noises (grinding, squealing) when the fan is operating. Observe if the fan cycles on and off as expected.

6.2 Cleaning

If excessive dirt or debris accumulates on the fan blades or shroud, carefully clean them using a soft brush or compressed air. Ensure the engine is off and cool, and the battery is disconnected before cleaning.

7. TROUBLESHOOTING

If you experience issues with your engine cooling fan, consult the following table for common problems and potential solutions.

Problem	Possible Cause	Solution
Fan does not turn on	Blown fuse; faulty relay; disconnected electrical connector; faulty temperature sensor; faulty fan motor.	Check and replace fuse/relay. Verify electrical connection. Test temperature sensor. Replace fan assembly if motor is faulty.
Engine overheating	Fan not operating; low coolant level; clogged radiator; faulty thermostat; air in cooling system.	Check fan operation (see above). Check coolant level and condition. Inspect radiator for obstructions. Test thermostat. Bleed cooling system.
Excessive noise from fan	Damaged fan blades; worn fan motor bearings; debris in fan shroud.	Inspect fan blades for damage. Clear any debris. Replace fan assembly if motor bearings are worn.

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

8. SPECIFICATIONS

Key technical specifications for the Dorman 621-526 Engine Cooling Fan Assembly:

- **Model:** Dorman 621-526
- **Brand:** Dorman
- **Power Connector Type:** 2-Pin
- **Voltage:** 12 Volts
- **Wattage:** 80 watts
- **Cooling Method:** Forced Air
- **Compatible Devices:** Radiator
- **Noise Level:** 4 Decibels
- **Material:** Aluminum (likely referring to motor components or internal structure, as shroud is typically plastic)
- **Maximum Rotational Speed:** 3500 RPM
- **Item Weight:** Approximately 5 pounds
- **Product Dimensions:** Approximately 33.63 x 5.63 x 5.63 inches
- **Manufacturer Part Number:** 621-526
- **OEM Part Numbers:** 622550; 76230; CF13063; FA70886; SK621526; 68050129AA

9. WARRANTY & SUPPORT

Dorman products are manufactured to high-quality standards. For specific warranty information regarding your Dorman 621-526 Engine Cooling Fan Assembly, please refer to the warranty documentation included with your purchase or visit the official Dorman website.

9.1 Customer Support

If you have questions about installation, troubleshooting, or warranty claims, please contact Dorman customer support through their official website or the contact information provided in your product packaging.

Dorman Website: www.dormanproducts.com

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