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Dorman 620-5601

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Model: 620-5601 | Brand: Dorman

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Dorman 620-5601 A/C Condenser Fan Assembly. This assembly is engineered to match the fit and performance of the original equipment condenser fan on specific Chevrolet, GMC, and Isuzu vehicle models. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

Warning: Automotive repair can be hazardous. Always follow safety precautions to prevent injury or damage. Professional installation is recommended.

- Disconnect the vehicle's battery before beginning any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on a level surface if lifting is required.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep hands and loose clothing away from moving parts, especially fan blades.

3. PACKAGE CONTENTS

The Dorman 620-5601 A/C Condenser Fan Assembly package typically includes:

- 1x Dorman 620-5601 A/C Condenser Fan Assembly
- *(Additional components may vary; refer to product packaging for exact contents.)*



Image 1: Front view of the Dorman 620-5601 A/C Condenser Fan Assembly. This image shows the fan blades, motor, and protective grille, along with the mounting frame.

4. COMPATIBILITY

This A/C Condenser Fan Assembly (Model 620-5601) is designed for direct replacement in select Chevrolet, GMC, and Isuzu models. To ensure proper fitment for your specific vehicle, it is crucial to verify compatibility using your vehicle's make, model, and year. Consult your vehicle's service manual or a reputable automotive parts database.

5. SETUP AND INSTALLATION

Installation of an A/C condenser fan assembly requires mechanical knowledge and specialized tools. If you are not experienced in automotive repair, it is highly recommended to seek professional assistance.

General Installation Steps (Consult Vehicle Service Manual for Details):

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal. Allow the engine to cool completely.
2. **Access:** Depending on the vehicle, it may be necessary to remove the grille, bumper, or other components to gain access to the condenser fan assembly.
3. **Disconnect:** Disconnect the electrical connector from the existing fan assembly.



Image 2: Close-up view of the 2-pin electrical connector, which ensures a secure connection to the vehicle's wiring harness.

4. **Remove Old Assembly:** Unbolt and carefully remove the old condenser fan assembly from its mounting points. Note the orientation for correct installation of the new part.
5. **Install New Assembly:** Position the Dorman 620-5601 A/C Condenser Fan Assembly into place. Secure it with the appropriate bolts, ensuring all mounting points are aligned.



Image 3: Rear view of the fan assembly, highlighting the fan blades and the structural frame with mounting points for secure attachment.

6. **Connect Electrical:** Connect the new fan assembly's electrical connector to the vehicle's wiring harness. Ensure a firm and secure connection.
7. **Reassemble:** Reinstall any removed components (grille, bumper, etc.) in reverse order.
8. **Final Check:** Reconnect the negative battery terminal. Start the vehicle and test the A/C system to confirm proper fan operation.

6. OPERATION

The A/C condenser fan assembly operates automatically to ensure optimal performance of your vehicle's air conditioning system. When the air conditioning is engaged, the fan draws air through the A/C condenser, facilitating heat exchange and cooling the refrigerant. This process is crucial for the efficient operation of the A/C system and maintaining comfortable cabin temperatures.



Image 4: Side profile of the fan assembly, illustrating its compact design and integrated housing.

7. MAINTENANCE

The Dorman 620-5601 A/C Condenser Fan Assembly is designed for long-term reliability and typically requires minimal maintenance. However, periodic inspection can help ensure its continued performance:

- **Visual Inspection:** Periodically check the fan blades for any signs of damage, cracks, or debris accumulation. Ensure the fan spins freely without obstruction.
- **Electrical Connections:** Verify that the electrical connector remains securely attached and free from corrosion.



Image 5: Detailed view of the electrical wiring and connector, showing the robust construction designed for automotive environments.

- **Cleanliness:** Keep the condenser and fan area free of leaves, dirt, and other debris that could impede airflow or damage the fan.

8. TROUBLESHOOTING

If you experience issues with your A/C condenser fan, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Fan not operating when A/C is on	Blown fuse, faulty relay, wiring issue, faulty fan motor	Check vehicle fuses and relays. Inspect wiring for damage. Test fan motor for continuity. Consult a professional if unsure.
Excessive noise from fan	Debris obstructing fan blades, damaged fan blades, worn motor bearings	Inspect for and remove debris. Check fan blades for damage; replace if necessary. If motor bearings are worn, replace the assembly.
A/C not cooling effectively	Fan not running, low refrigerant, clogged condenser, other A/C system issues	Ensure fan is operating. Check refrigerant levels. Clean condenser fins. This may indicate a broader A/C system problem requiring professional diagnosis.

9. SPECIFICATIONS

Feature	Specification
Model Number	620-5601
Brand	Dorman
Power Connector Type	2-Pin
Voltage	12 Volts
Wattage	800 watts
Cooling Method	Air
Noise Level	50 dB
Material	Plastic
Maximum Rotational Speed	1200 RPM
Product Dimensions	4.1 x 13.8 x 15.3 inches
Item Weight	0.01 ounces
UPC	019495383413

10. WARRANTY AND SUPPORT

Dorman products are manufactured to high-quality standards. For information regarding product warranty, returns, or technical support, please refer to the official Dorman website or contact Dorman customer service directly. Keep your

purchase receipt as proof of purchase.

Dorman Official Website: www.dormanproducts.com

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