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Dorman 604-257

Dorman 604-257 HVAC Blend Door Actuator User Manual

For Select Ford Models

1. INTRODUCTION

The Dorman 604-257 HVAC Blend Door Actuator is a critical component of your vehicle's heating, ventilation, and air conditioning (HVAC) system. It is designed to directly replace the original actuator on specific vehicle years, makes, models, and configurations to restore proper HVAC operation. This actuator controls the blend door, which regulates the mix of hot and cold air to achieve the desired cabin temperature.

Proper functioning of the blend door actuator ensures comfortable cabin temperatures and efficient climate control. A malfunctioning actuator can lead to issues such as incorrect temperature output, inconsistent airflow, or clicking noises from the dashboard.

2. PRODUCT OVERVIEW



Figure 1: Main view of the Dorman 604-257 HVAC Blend Door Actuator.

The Dorman 604-257 actuator is engineered for durability and reliable operation. It features a robust construction designed to resist wear and electrical burnout, ensuring a long service life. This part is a direct replacement, meaning it is manufactured to match the fit and function of the original equipment.



Figure 2: Front view showing the electrical connector.



Figure 3: Back view showing mounting points.

3. COMPATIBILITY

This Dorman 604-257 HVAC Blend Door Actuator is compatible with the following vehicle models:

- **Ford Focus:** 2008, 2009, 2010, 2011

It is crucial to verify that this part matches the specific position and function of the actuator you need to replace, as many vehicles utilize several different air door actuators for various functions (e.g., temperature blend, mode selection, recirculation).

4. KEY FEATURES

- **Direct Replacement:** Engineered to match the fit and function of the original equipment actuator.
- **Position Specific:** Designed for a particular location and function within the HVAC system.
- **Durable Construction:** Manufactured with materials and tested to standards that resist wear and electrical burnout.
- **Reliable Operation:** Backed by Dorman's century of experience in automotive parts.

5. INSTALLATION GUIDE

Installation of an HVAC blend door actuator typically involves accessing the component behind the dashboard. Due to the complexity and varying locations of actuators in different vehicles, professional installation is recommended. If you choose to perform the installation yourself, ensure you have the necessary tools and refer to a vehicle-specific service manual for detailed instructions.

Important Considerations:

- **Confirm Location:** Before ordering or installing, always confirm the specific location and function of the actuator that needs replacement.
- **Recalibration:** After replacing the actuator, it is often necessary to recalibrate the HVAC system. This process typically involves a series of steps outlined in your vehicle's service manual or by a qualified technician. Failure to recalibrate may result in improper operation.

Your browser does not support the video tag.

Video 1: An overview of Dorman Air Door Actuators, explaining their function and the importance of correct part selection for HVAC system repair.

6. OPERATION

The Dorman 604-257 HVAC Blend Door Actuator operates electronically, receiving signals from the vehicle's climate control module. Based on user input (temperature settings) and sensor readings, the actuator precisely moves the blend door to mix heated and cooled air, directing it to the appropriate vents. This ensures the desired temperature is maintained within the vehicle cabin.

7. MAINTENANCE

The blend door actuator itself is a sealed unit and does not require routine maintenance. However, regular maintenance of your vehicle's overall HVAC system can help prolong the life of all components, including the actuator. This includes:

- Regularly checking and replacing the cabin air filter to ensure optimal airflow and prevent strain on the system.
- Ensuring the refrigerant levels are correct for efficient air conditioning operation.
- Addressing any unusual noises or performance issues promptly to prevent further damage.

8. TROUBLESHOOTING

If you experience issues with your vehicle's climate control, the blend door actuator may be a contributing factor. Common symptoms of a failing HVAC blend door actuator include:

- **Inconsistent Temperature:** Air blowing from the vents is not the temperature selected (e.g., only hot air when cold is selected, or vice-versa).
- **Clicking or Tapping Noises:** A repetitive clicking, tapping, or thumping sound coming from behind the dashboard, especially when changing temperature or vent settings.
- **No Airflow to Certain Vents:** Air is not directed to the correct vents, or airflow is blocked.
- **Failure to Adjust:** The climate control system does not respond to changes in temperature or mode settings.

If you encounter these symptoms, it is advisable to consult a qualified automotive technician for diagnosis and repair.

9. SPECIFICATIONS

Specification	Value
Brand	Dorman
Model Number	604-257
Item Weight	3.2 ounces
Product Dimensions	5.3 x 4 x 2.5 inches
Manufacturer Part Number	604-257
OEM Part Numbers	73090; ADS261; J04055; 8S4Z19E616A

10. WARRANTY AND SUPPORT

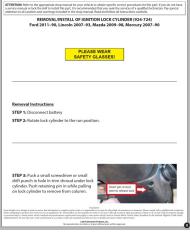
Dorman Products are designed and manufactured to high-quality standards. For specific warranty information or technical support, please refer to the official Dorman Products website or contact their customer service.

Always ensure you are using the correct part for your vehicle's specific application.

For more information, visit the [Dorman Store on Amazon](#).

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Related Documents - 604-257

	<p>Dorman Air Door Actuator Installation and Alignment Guide</p> <p>This technical note from Dorman provides essential guidance for installing and correctly aligning the Air Door Actuator. It includes instructions in English and details on using the included alignment tool with a 1/4" drive ratchet. Support contact information is also provided.</p>
	<p>Dorman 902-322 HVAC Blend Door Installation Instructions for Dodge RAM 02-08</p> <p>Comprehensive installation and removal guide for the Dorman 902-322 HVAC Blend Door repair kit, specifically for Dodge RAM models from 2002 to 2008. Includes parts list, tools required, step-by-step instructions, and diagram descriptions.</p>
	<p>Dorman 746-015 Liftgate Lock Actuator Installation and Removal Instructions</p> <p>Detailed instructions for the removal and installation of the Dorman 746-015 liftgate lock actuator, compatible with various Chevrolet, Cadillac, and GMC models. Includes required tools and step-by-step guidance.</p>
	<p>Dorman 601-037 Steering Column Lock Actuator Programming and Verification Guide</p> <p>Detailed instructions for programming and verifying the Dorman 601-037 Steering Column Lock Actuator, including safety precautions and troubleshooting tips.</p>
	<p>Dorman 924-724 Ignition Lock Cylinder Installation and Removal Instructions</p> <p>Step-by-step guide for the removal and installation of the Dorman 924-724 Ignition Lock Cylinder, compatible with select Ford, Lincoln, Mazda, and Mercury vehicles. Includes safety precautions and technical assistance information.</p>



[Dorman 917-504 Exhaust Manifold Clamp Repair Kit Instructions](#)

Detailed instructions for installing the Dorman 917-504 exhaust manifold clamp repair kit. Includes safety guidelines, step-by-step procedures, and technical support contact information.