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› Dorman 604-035 HVAC Blend Door Actuator Instruction Manual

Dorman 604-035

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Model: 604-035

1. PRODUCT OVERVIEW

This Dorman 604-035 HVAC Blend Door Actuator is a direct replacement component designed to restore proper heating, ventilation, and air conditioning (HVAC) operation in compatible vehicles. It is engineered to match the fit and function of the original equipment actuator for specific vehicle years, makes, models, configurations, and positions.



Image: Top view of the Dorman 604-035 HVAC Blend Door Actuator, showing its black plastic housing and electrical connector.

2. KEY FEATURES

- **Direct Replacement:** Engineered to match the fit and function of the original air door actuator on certain vehicle years, makes, models, and configurations.
- **Position Specific:** Designed for a specific location and function within the vehicle's HVAC system. Always verify compatibility for the exact position needing replacement.
- **Durable Construction:** Manufactured and tested to rigorous standards to resist wear and electrical burnout, ensuring reliable operation and extended service life.
- **Quality Assurance:** Backed by Dorman's team of experts and engineers with over a century of experience.
- **Includes Alignment Tool:** Comes with an alignment tool to assist in proper positioning and calibration during installation.

3. COMPATIBILITY

This HVAC blend door actuator is compatible with select Dodge and Jeep models. It is crucial to verify the exact fitment for your vehicle as many vehicles utilize several different air door actuators for various positions and functions.

Compatible Vehicles:

- **Dodge Caliber:** 2007, 2008, 2009, 2010, 2011
- **Jeep Compass:** 2007, 2008, 2009, 2010, 2011, 2012
- **Jeep Patriot:** 2007, 2008, 2009, 2010, 2011, 2012
- **Jeep Wrangler:** 2007, 2008, 2009, 2010

Note: Always consult your vehicle's service manual or a qualified technician if you are unsure about the specific actuator position or compatibility for your vehicle.

4. WHAT'S IN THE BOX

The product package typically includes the following:

- One (1) Dorman 604-035 HVAC Blend Door Actuator
- One (1) Alignment Tool (often a small white plastic piece)



Image: The Dorman 604-035 actuator shown with the included alignment tool, demonstrating its use with a 1/4" ratchet for easier installation and calibration.

5. INSTALLATION GUIDELINES

Installation of an HVAC blend door actuator can be complex and may require removal of dashboard components. It is highly recommended that installation be performed by a qualified automotive technician. The following are general guidelines and not a substitute for a vehicle-specific service manual.

General Steps:

1. **Safety First:** Disconnect the vehicle's battery before beginning any work to prevent electrical shorts or accidental airbag deployment.
2. **Access the Actuator:** Locate the faulty HVAC blend door actuator. This often involves removing parts of the dashboard, glove compartment, or center console, depending on the vehicle model and actuator location.
3. **Remove Old Actuator:** Carefully disconnect the electrical connector and remove the mounting screws securing the old actuator. Note its orientation.
4. **Install New Actuator:** Position the new Dorman 604-035 actuator. Ensure the blend door shaft is correctly aligned with the actuator's drive. The included alignment tool can be used to properly position the door for correct installation and calibration.
5. **Secure and Connect:** Fasten the new actuator with its mounting screws and reconnect the electrical connector.
6. **Reassemble:** Reinstall any removed dashboard or interior components.
7. **Test Functionality:** Reconnect the vehicle's battery. Turn on the ignition and test the HVAC system's blend door operation across all temperature and mode settings to ensure proper function.

Important: Incorrect installation can lead to improper HVAC operation or damage to the actuator or vehicle components. If you are not confident in your ability to perform this installation, seek professional assistance.

6. OPERATING INSTRUCTIONS

Once installed, the Dorman 604-035 HVAC Blend Door Actuator operates automatically as part of your vehicle's climate control system. Its function is to control the position of the blend door, which mixes hot and cold air to achieve the desired temperature within the cabin.

- Adjust the temperature settings on your vehicle's climate control panel.
- The actuator will respond to these inputs, moving the blend door to regulate the air temperature.
- Listen for smooth operation and ensure the desired temperature is achieved.

7. MAINTENANCE

The Dorman 604-035 HVAC Blend Door Actuator is designed to be a maintenance-free component. Regular maintenance is not required for the actuator itself. However, ensuring the overall health of your vehicle's HVAC system can contribute to its longevity.

- Periodically check your vehicle's cabin air filter and replace it as recommended by your vehicle manufacturer. A clogged filter can restrict airflow and put strain on HVAC components.
- Address any other HVAC system issues promptly to prevent cascading failures.

8. TROUBLESHOOTING

If you experience issues with your HVAC system after installing the Dorman 604-035 actuator, consider the following common troubleshooting steps:

- **No Temperature Change or Incorrect Temperature:**

- Verify the electrical connection to the actuator is secure.
 - Ensure the blend door shaft is properly engaged with the actuator.
 - Check for any obstructions preventing the blend door from moving freely.
 - A recalibration of the HVAC system may be necessary. Consult your vehicle's service manual for specific recalibration procedures.
- **Clicking or Ticking Noise from Dashboard:**
 - This often indicates a stripped gear within the actuator or an issue with the blend door itself. If the noise persists after installation, the actuator may be faulty or the blend door mechanism requires inspection.
 - **No Airflow or Incorrect Airflow Direction:**
 - While this actuator specifically controls blend (temperature), other actuators control mode (airflow direction). Ensure all relevant actuators are functioning correctly.
 - Check for a clogged cabin air filter.

For more detailed troubleshooting, you may refer to the official Dorman [Troubleshooting Guide \(PDF\)](#) or consult a professional automotive technician.

9. SPECIFICATIONS

Attribute	Detail
Brand	Dorman
Model Number	604-035
Manufacturer Part Number	604-035
OEM Part Numbers	ADA364; ADR4206; ADS4206; APBDA0056; SK604035; 68000272AA; 68000470AA
Item Weight	3.52 ounces
Product Dimensions	5.2 x 4.1 x 2.5 inches
Exterior Finish	Machined
First Available Date	January 9, 2014

10. WARRANTY INFORMATION

Dorman products are designed for durability and reliability. For specific warranty terms and conditions applicable to the Dorman 604-035 HVAC Blend Door Actuator, please refer to the official Dorman [Warranty Document \(PDF\)](#). It is recommended to retain your proof of purchase for warranty claims.

11. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding the Dorman 604-035 HVAC Blend Door Actuator, please contact Dorman Products directly or visit their official resources:

- **Official Dorman Store:** [Visit the Dorman Store on Amazon](#)

- **User Guide:** A general user guide may be available for Dorman products. You can find a [User Guide \(PDF\)](#) here.
- **Manufacturer Information:** Dorman Products has been providing automotive solutions for over 100 years.

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This manual is for informational purposes only. Always follow vehicle manufacturer's guidelines.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question