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› Part Synergy Heater Core and Blower Motor Kit Installation Manual for Nissan Maxima (2004-2008)

Part Synergy REPLACEMENT - KIT-101024-38

Part Synergy Heater Core and Blower Motor Kit Installation Manual

For Nissan Maxima (2004-2008)

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Part Synergy Heater Core and Blower Motor Kit. This kit is designed as a direct Original Equipment (OE) replacement for specified Nissan Maxima models, ensuring compatibility and restoring original heating and ventilation functionality. Please read these instructions thoroughly before beginning any installation.

2. SAFETY INFORMATION

Automotive repair can be complex and potentially hazardous. Always prioritize safety. It is recommended that installation be performed by a qualified automotive technician.

- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before starting any electrical work or component replacement to prevent electrical shock or damage.
- **Coolant Handling:** Engine coolant is toxic. Handle with care and dispose of it properly according to local regulations. Avoid contact with skin and eyes.
- **Hot Surfaces:** Engine components and coolant can be extremely hot. Allow the engine to cool completely before working on the heating system.
- **Personal Protective Equipment:** Wear appropriate safety gear, including gloves and eye protection.
- **Vehicle Support:** If lifting the vehicle, ensure it is securely supported with jack stands.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 1 x Part Synergy Heater Core
- 1 x Part Synergy Blower Motor



Image: The complete Part Synergy Heater Core and Blower Motor Kit, showing both components.

4. COMPATIBILITY

This Part Synergy Heater Core and Blower Motor Kit is compatible with the following Nissan Maxima models:

- 2004-2008 Nissan Maxima SE 6 Cyl 3.5L
- 2004-2008 Nissan Maxima SL 6 Cyl 3.5L

Please verify your vehicle's make, model, and year before installation to ensure proper fitment.

5. SETUP AND INSTALLATION

This kit is designed for direct-fit compatibility, minimizing installation time. However, heater core and blower motor replacement typically involves significant disassembly of the vehicle's dashboard and HVAC system. Professional installation is highly recommended.

5.1. General Installation Steps (Consult a service manual for detailed vehicle-specific instructions)

1. **Prepare Vehicle:** Park the vehicle on a level surface. Allow the engine to cool completely. Disconnect the negative battery terminal.
2. **Drain Coolant:** Safely drain the engine coolant from the radiator.
3. **Access HVAC System:** This step varies significantly by vehicle. It typically involves removing dashboard components, trim panels, and potentially the entire dashboard assembly to gain access to the heater core and blower motor housing.
4. **Disconnect Hoses and Electrical:** Disconnect the heater hoses from the heater core and the electrical connector from the blower motor. Be prepared for residual coolant to drain from the heater core.
5. **Remove Old Components:** Carefully remove the old heater core and blower motor from their respective housings.
6. **Install New Components:**



Image: The Part Synergy Heater Core, featuring aluminum core construction.

Install the new Part Synergy Heater Core into its housing. Ensure a secure fit. Connect the heater hoses. The core dimensions are 6 x 7.5 x 1 inch, with 0.75 inch inlet and outlet sizes.



Image: The Part Synergy Blower Motor assembly, ready for installation.

Install the new Part Synergy Blower Motor into its housing. Connect the electrical connector. Ensure all mounting points are secured.

7. **Reassemble:** Reinstall all removed dashboard components and trim panels in reverse order.
8. **Refill Coolant:** Refill the cooling system with the appropriate type and amount of engine coolant. Bleed any air from the system according to the vehicle manufacturer's specifications.
9. **Reconnect Battery:** Reconnect the negative battery terminal.
10. **Test System:** Start the engine and allow it to reach operating temperature. Test the heating and ventilation system to ensure proper operation, checking for leaks and adequate airflow and heat output.

6. OPERATING

Once correctly installed, the Part Synergy Heater Core and Blower Motor will function as integral components of your vehicle's Heating, Ventilation, and Air Conditioning (HVAC) system. The blower motor circulates air through the cabin, and the heater core transfers heat from the engine coolant to this air, providing warmth to the vehicle interior when the heater is activated.

- **Heater Core Function:** When the vehicle's heater is turned on, hot engine coolant flows through the heater core, warming the fins.
- **Blower Motor Function:** The blower motor draws air from the cabin or outside, pushes it through the heater core (or evaporator for AC), and then directs the conditioned air through the vehicle's vents.

7. MAINTENANCE

Proper maintenance of your vehicle's cooling and HVAC system contributes to the longevity and efficiency of the heater core and blower motor.

- **Coolant Levels and Quality:** Regularly check your engine's coolant level and condition. Ensure the coolant is clean and at the correct concentration. Flush and replace coolant according to your vehicle manufacturer's recommended schedule. Contaminated or old coolant can lead to heater core corrosion or blockages.
- **Cabin Air Filter:** Inspect and replace the cabin air filter periodically. A clogged cabin air filter can restrict airflow, putting strain on the blower motor and reducing heating/cooling efficiency.
- **System Leaks:** Periodically inspect heater hoses and connections for any signs of coolant leaks. Address any leaks promptly.

8. TROUBLESHOOTING

If you experience issues with your vehicle's heating system after installation, consider the following common troubleshooting steps:

- **No Heat or Insufficient Heat:**
 - Check engine coolant level.
 - Ensure the cooling system is properly bled of air.
 - Verify thermostat operation.
 - Inspect heater control valve (if equipped) for proper function.
 - Check for blockages in heater hoses or the heater core.
- **Weak Airflow from Vents:**
 - Inspect and replace the cabin air filter if clogged.
 - Check for obstructions in the air ducts.
 - Verify blower motor electrical connections.
 - Listen for unusual noises from the blower motor, which may indicate a failing unit or obstruction.
- **Coolant Leaks:**
 - Inspect all hose connections to the heater core for tightness.
 - Check the heater core itself for signs of leakage (often indicated by a sweet smell inside the cabin or dampness on the passenger floor).

For persistent issues, consult a professional automotive technician.

9. SPECIFICATIONS

Component	Specification
Part Type	Heater Core and Blower Motor Kit
Brand	Part Synergy
Model Number	REPLACEMENT - KIT-101024-38
Heater Core Dimensions	6 x 7.5 x 1 inch (Core size)
Heater Core Material	Aluminum Core
Heater Core Inlet Size	0.75 inch

Heater Core Outlet Size	0.75 inch
Replaces OE Numbers	271401E400, 2714030Z08, 272257Y000-PFM, 272007Y00A
Replaces Partslink Number	NI3126115
Replaces DPI Number	8401
Interchange Part Numbers	93002, 8231386, 271401E400, 2714030Z08, PM9318, 2311720, 272257Y000-PFM, 272007Y00A, NI3126115
Item Weight	8 pounds
Product Dimensions	73.43 x 21.57 x 16.18 inches (Packaging)

10. WARRANTY AND SUPPORT

This product is covered by a **30-Day Return Policy**. For specific warranty details, return procedures, or technical support, please contact your retailer or the manufacturer directly.

When contacting support, please have your purchase information and the product model number (REPLACEMENT - KIT-101024-38) available.

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