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Nordyne 903404

Nordyne 903404 Furnace Inducer Replacement Manual

Model: 903404

Brand: Nordyne

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the **Nordyne 903404 Furnace Inducer Replacement**. This component is designed to replace the original inducer motor in compatible Nordyne HVAC systems, ensuring proper combustion air flow and exhaust gas venting. Adherence to these instructions is crucial for safe and efficient operation.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect all electrical power to the furnace at the main breaker or fuse panel before attempting any installation, maintenance, or repair. Failure to follow these instructions could result in property damage, personal injury, or death.

- Only qualified personnel should attempt installation or repair of HVAC components.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation and servicing.
- Ensure the furnace is completely cool before beginning any work.
- Turn off the gas supply to the furnace before beginning work.
- Verify all electrical and gas connections are secure and properly sealed after installation.

3. PACKAGE CONTENTS

Verify that all items are present in the package before beginning installation:

- Nordyne 903404 Furnace Inducer Replacement Assembly
- Installation Guide (this manual)

4. SETUP AND INSTALLATION

Tools Required:

- Screwdrivers (Phillips and flathead)
- Nut drivers or wrenches
- Pliers
- Multimeter (for testing, optional)

Preparation:

1. Disconnect all electrical power to the furnace at the main breaker or fuse panel.
2. Turn off the gas supply to the furnace.
3. Allow the furnace to cool completely before proceeding.

Removal of Old Inducer:

1. Locate the existing inducer motor assembly on your furnace.
2. Disconnect the electrical wiring from the inducer motor. Carefully note the wire connections for reinstallation. Taking a photograph may be helpful.
3. Disconnect any pressure switch hoses attached to the inducer.
4. Remove the mounting screws or bolts securing the inducer assembly to the furnace.
5. Carefully detach the exhaust vent pipe from the inducer.
6. Remove the old inducer assembly from the furnace.

Installation of New Inducer:

1. Position the new Nordyne 903404 Inducer Replacement assembly in the same location as the old unit.
2. Secure the assembly using the original mounting screws or bolts. Ensure a tight, secure fit to prevent vibration.
3. Reconnect the exhaust vent pipe to the inducer. Ensure all seals are properly seated to prevent exhaust gas leaks.
4. Reconnect any pressure switch hoses to their original ports on the new inducer.
5. Reconnect the electrical wiring to the new inducer motor, matching the connections noted during removal. Ensure all connections are secure and properly insulated.
6. Double-check all connections and mounting points for security and proper alignment before proceeding.



Image 1: The Nordyne 903404 Furnace Inducer Replacement assembly shown from a side angle, highlighting its cylindrical housing and electrical connector. This view helps in identifying the unit during installation.



Image 2: A top-down view of the Nordyne 903404 Furnace Inducer Replacement, revealing the internal motor and black fan blades. This perspective is useful for checking fan integrity.

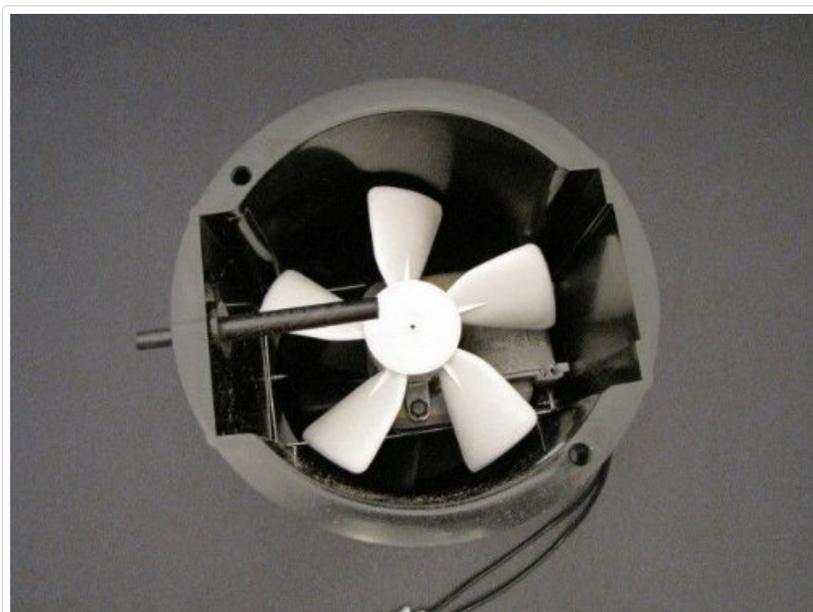


Image 3: Another top-down view of the Nordyne 903404 Furnace Inducer Replacement, showcasing the white fan blades and the central shaft mechanism. This view assists in verifying the fan's condition.

5. OPERATING INSTRUCTIONS

Post-Installation Check:

1. Restore the gas supply to the furnace.
2. Restore electrical power to the furnace at the main breaker or fuse panel.
3. Initiate a call for heat from your thermostat.
4. Observe the furnace's startup sequence. The inducer motor should activate first, drawing combustion air and venting exhaust gases.
5. Listen for any unusual noises or vibrations. The operation should be smooth and relatively quiet.
6. Verify that the furnace ignites and operates normally through a full heating cycle.
7. If any issues arise, refer to the Troubleshooting section of this manual.

6. MAINTENANCE

The Nordyne 903404 Furnace Inducer Replacement is designed for reliable operation with minimal maintenance. Regular inspection is recommended to ensure continued performance.

Annual Inspection:

1. Annually, or as part of routine furnace maintenance, inspect the inducer motor for any signs of wear, corrosion, or damage.
2. Check the exhaust vent pipe connection for leaks or blockages. Ensure the pipe is clear of obstructions.
3. Ensure all electrical connections are secure and free from corrosion.
4. Clean any dust or debris from the exterior of the inducer assembly.
5. Do not attempt to lubricate the motor, as it is typically sealed and permanently lubricated.

7. TROUBLESHOOTING

This section addresses common issues that may occur with the furnace inducer. For complex issues or if you are unsure about any step, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Inducer motor does not start	No electrical power to furnace Faulty wiring connection Motor failure	Check circuit breaker/fuse. Ensure gas supply is on. Verify all electrical connections are secure. If power is present and connections are good, motor may require replacement by a technician.

Problem	Possible Cause	Solution
Inducer motor runs but furnace does not ignite	Blocked pressure switch hose or faulty pressure switch Blocked exhaust vent	Inspect and clear pressure switch hoses. Ensure exhaust vent is clear of obstructions. Consult a qualified technician if the pressure switch is suspected to be faulty.
Unusual noise or vibration	Loose mounting Debris in fan Motor bearing wear	Check all mounting screws and ensure the unit is securely fastened. Disconnect power and carefully inspect for debris in the fan (if safe to do so). If noise persists, motor bearing wear may indicate a need for professional service.

If troubleshooting steps do not resolve the issue, or if you are uncomfortable performing these checks, it is recommended to contact a qualified HVAC technician.

8. SPECIFICATIONS

Technical specifications for the Nordyne 903404 Furnace Inducer Replacement:

Feature	Detail
Model Number	903404
Product Dimensions	6"L x 6"W x 6"H
Weight	Approximately 3.04 Pounds
Material	Alloy Steel
Power Connector Type	3-Pin
Wattage	186.5 watts
Cooling Method	Forced Air
Compatible Devices	HVAC Systems
Manufacturer	Nordyne
Date First Available	June 5, 2010

9. WARRANTY INFORMATION

This Nordyne product is covered by the manufacturer's standard warranty. Please refer to the warranty documentation provided with your original furnace or contact Nordyne customer support for specific warranty terms and conditions. Keep your proof of purchase for any warranty claims.

10. SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your Nordyne 903404 Furnace Inducer Replacement, please contact a certified HVAC professional. You may also refer to the official Nordyne

website for additional support resources and product information.

Online Resources: www.nordyne.com

Related Documents - 903404

<p>CMF Series PO and PG Furnaces</p>  <p>Service Manual</p>	<p>CMF Series PO and PG Furnaces Service Manual - Installation, Troubleshooting, and Conversion Guide</p> <p>Comprehensive service manual for NORDYNE CMF Series PO (Power Oil) and PG (Power Gas) furnaces. Covers installation, electrical testing, component service, oil-to-gas conversion, troubleshooting, and wiring diagrams.</p>
	<p>NORDYNE K & F Series Gas Furnaces: Replacement Parts List</p> <p>This document provides a detailed replacement parts list for NORDYNE K & F Series two-stage condensing and non-condensing gas furnaces, covering models with fixed and variable speed blowers.</p>
	<p>NORDYNE M1 Series Gas and Oil Furnaces: Owners Manual and Installation Instructions</p> <p>Comprehensive guide for NORDYNE M1 Series downflow, direct vent (sealed combustion) forced air gas and oil furnaces. Covers installation, operation, maintenance, and troubleshooting for manufactured homes and recreational vehicles.</p>
	<p>NORDYNE E3 Series Electric Furnaces: Owners Manual & Installation Instructions</p> <p>Comprehensive guide for NORDYNE E3 Series electric furnaces, covering user operation, maintenance, safety, and detailed installation procedures for installers. Includes specifications and troubleshooting.</p>
	<p>NORDYNE M3RL Series 90+ Downflow Condensing Gas Furnace Installation Manual</p> <p>Comprehensive installation, operation, and maintenance manual for the NORDYNE M3RL Series 90+ Downflow Condensing Forced Air Gas Furnaces. Covers specifications, installation requirements, venting, gas supply, electrical wiring, startup, maintenance, and troubleshooting for manufactured homes and modular buildings.</p>
	<p>Nordyne CMF3 Gas & Oil Furnace User Manual - Safety and Operation Guide</p> <p>User's manual for Nordyne CMF3 convertible gas and oil furnaces. Covers safety, installation clearances, maintenance, startup, shutdown, and troubleshooting for manufactured home heating systems.</p>

