

Advia 38030

Advia FB-RFB241 Furnace Draft Inducer Blower Motor Instruction Manual

Model: 38030

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Advia FB-RFB241 Furnace Draft Inducer Blower Motor. This unit is designed as a replacement part for various Rheem and Ruud furnace models, ensuring proper exhaust gas ventilation for efficient and safe furnace operation.

2. SAFETY INFORMATION

WARNING: Before attempting any installation or maintenance, ensure the main power supply to the furnace is disconnected. Failure to do so can result in electrical shock, personal injury, or death. Installation should only be performed by a qualified technician. Always wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

- Disconnect all electrical power to the furnace before servicing.
- Verify that the replacement part matches the specifications of the original unit.
- Ensure all connections are secure and properly insulated.
- Do not operate the furnace if any part is damaged or improperly installed.

3. COMPATIBILITY

The Advia FB-RFB241 Draft Inducer Blower Motor is a direct replacement for the following furnace models and part numbers:

- **Compatible Furnace Models:**
 - Rheem Criterion II
 - Ruud Silhouette II
 - Rheem RGPH-07EAUER
 - Rheem RGPH-12EARJR
- **Replaces Part Numbers:**

- Rheem: 70-24157-03, 70-101087-81, 70-101087-01, FB-RFB241, 70-24175-01, 70-24178-01, 702415703, 70581406
- Jakel: J238-150-1533, J238-150-15165, 117847-00, 117847-07
- Fasco: 7121-11559, A066, 712111559, 70582635
- Ametek: 117104-01, 117104-04
- Packard: 66781

Perfect Draft Inducer Motor Replacement

For Rheem Criterion II,
RGPH-07EAUER,
Rudd Silhouette II Furnace Models

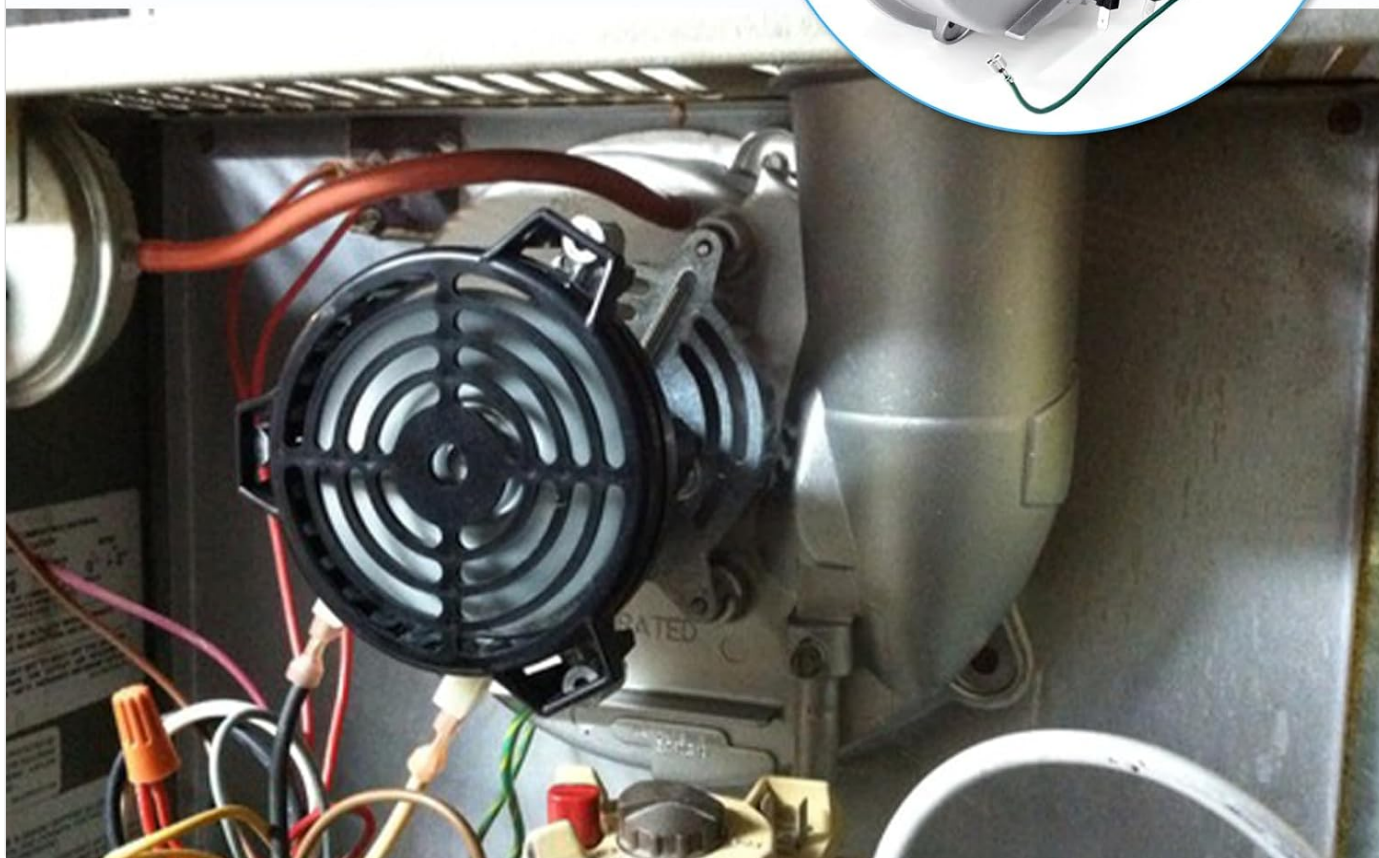


Image: Advia FB-RFB241 installed in a furnace, demonstrating compatibility.

4. TECHNICAL SPECIFICATIONS

Specification	Value
Voltage	120 Volts
Hertz	60 Hz

Specification	Value
Full Load Amperage	1.71 Amps
RPM	3000 RPM
Horsepower	60 Watts
Insulation Class	B
Rotation	Counterclockwise Lead End
Material	Metal (Cast Aluminum Housing)
Item Weight	7.68 pounds
Package Dimensions	12 x 11.8 x 8.9 inches

TECHNICAL SPECIFICATIONS

Volts: 120

Amps: 1.7A

Cycles: 60Hz

RPM: 3000



Image: Technical specifications label on the motor.

5. PACKAGE CONTENTS

The Adviace FB-RFB241 Furnace Draft Inducer Blower Motor assembly includes:

- 1x Furnace Draft Inducer Blower Motor (complete assembly with motor, housing, felt, and blower wheel)

Replaces Part Number

70-24157-03	J238-150-1533	70-101087-81	117104-01
70-101087-01	FB-RFB241	J238-150-15165	7121-11559
117104-04	117847-00	70-24175-01	A066 etc



Image: Complete Adviace FB-RFB241 assembly.

6. INSTALLATION INSTRUCTIONS

This section provides general guidelines for replacing your furnace draft inducer blower motor. Always refer to your furnace manufacturer's specific instructions and safety warnings. Professional installation is highly recommended.

1. **Disconnect Power:** Turn off the main power supply to your furnace at the circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Access the Old Motor:** Locate the existing draft inducer blower motor on your furnace. It is typically connected to the exhaust vent system.

3. **Disconnect Wiring and Hoses:** Carefully disconnect all electrical wiring and any vacuum hoses attached to the old motor. Note their positions for reinstallation.
4. **Remove Old Motor:** Unbolt or unscrew the old draft inducer motor from the furnace housing. Remove the old unit.
5. **Prepare New Motor:** The Advia FB-RFB241 comes with a durable cast aluminum housing and a thick felt gasket. This gasket ensures a tight seal and reduces metal-on-metal contact, contributing to quieter operation.
6. **Install New Motor:** Position the new Advia FB-RFB241 motor in place, aligning the mounting holes. Secure it with the appropriate bolts or screws.
7. **Reconnect Wiring and Hoses:** Reconnect all electrical wiring and vacuum hoses to the new motor, ensuring all connections are secure.
8. **Restore Power and Test:** Restore power to the furnace. Initiate a heating cycle to test the new draft inducer motor. Observe for proper operation and listen for any unusual noises. The new unit is designed for quiet and smooth operation.

Upgraded Material & Longer Lasting



Ours

✓ Cast aluminum housings

✓ Very solid and sturdy,
which can be used for
a longer time



Original

✗ Plastic housings

✗ Easy to crack and
not as durable

Image: Upgraded cast aluminum housing for enhanced durability.

Sound Dampening Felt Seal

Comes with felt gasket between housing and furnace, thick and solid. Create a very nice seal!



Image: Sound dampening felt seal for quiet operation.

Installation Overview Video

Your browser does not support the video tag.

Video: An overview of the Advia FB-RFB241 Furnace Draft Inducer Blower Motor, demonstrating its features and components relevant to installation.

7. OPERATION

The draft inducer blower motor is a critical component in your furnace's combustion system. Its primary function is to draw combustion gases from the heat exchanger and expel them through the exhaust vent. This creates a negative pressure within the combustion chamber, allowing fresh air to be drawn in for proper fuel ignition and efficient burning. The motor operates automatically when the furnace calls for heat, ensuring safe and effective removal of exhaust byproducts.

Nicely Made Draft Inducer Blower



Superbly Balanced



Energy Efficient



Powerful



Durable

Image: Features of the Adviace FB-RFB241 motor, ensuring reliable operation.

8. MAINTENANCE

To ensure the longevity and optimal performance of your Adviace draft inducer blower motor, consider the following maintenance tips:

- **Annual Inspection:** Have a qualified HVAC technician inspect your furnace annually, including the draft inducer motor, for any signs of wear or damage.
- **Keep Clear:** Ensure the area around the motor and exhaust vent is free from obstructions, dust, and debris.
- **Listen for Changes:** Pay attention to any changes in the motor's sound during operation. Unusual noises may indicate a developing issue. The Adviace motor is designed to be very quiet.

Quiet Replacement Blower

The old blower became vibrating and creaking. Once a new blower is installed, it will be very quiet and you may not even know it is running.



Image: The Advia motor provides quiet operation.

9. TROUBLESHOOTING

If you experience issues with your furnace related to the draft inducer motor, consult this basic troubleshooting guide. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start or hums loudly but doesn't spin.	Seized bearings, electrical issue, or obstruction.	Check for obstructions. Verify electrical connections. If the motor is seized, replacement is necessary. (Refer to the installation video for an example of a seized old motor).
Unusual noises (grinding, squealing).	Worn bearings, loose components, or debris.	Inspect for debris. If noises persist, the motor may need replacement. The Advia motor is designed for quiet operation.

Problem	Possible Cause	Solution
Furnace not igniting.	Draft inducer not creating sufficient draft.	Ensure the motor is running correctly and the exhaust path is clear. Check pressure switch operation.

10. WARRANTY AND SUPPORT

The Adviace FB-RFB241 Furnace Draft Inducer Blower Motor comes with a **1-Year Warranty**, assuring quality and reliability. For technical assistance, warranty claims, or further inquiries, please contact Adviace customer support through your purchase platform or the official Adviace website.

