

RIELLO 3005843

RIELLO 3005843 Oil Burner Motor Instruction Manual

Models: C7001034, 7001034

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your RIELLO 3005843 Oil Burner Motor. This motor is designed for use with RIELLO F3, F5, and F10 series oil burners. Please read this manual thoroughly before attempting any procedures.

Important Safety Notice: Installation and servicing of this oil burner motor should only be performed by a qualified and authorized technician. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Always disconnect power before servicing.

PRODUCT OVERVIEW

The RIELLO 3005843 (C7001034, 7001034) is a replacement motor for specific RIELLO oil burner models. It is an integral component responsible for driving the fan and fuel pump within the burner assembly, ensuring proper air-fuel mixture and combustion.



This image displays the RIELLO 3005843 oil burner motor, showing its compact design and the electrical wiring harness with multiple colored wires (black, white, blue, brown) terminating in spade connectors. The motor casing is metallic gray, and a label with specifications like voltage, amperage, wattage, and RPM is visible on the side.

SETUP AND INSTALLATION

Installation of the RIELLO 3005843 Oil Burner Motor requires technical expertise and should only be performed by a certified HVAC or oil burner technician. Refer to the specific RIELLO oil burner service manual for detailed instructions pertaining to your burner model (F3, F5, or F10).

General Installation Steps:

1. **Disconnect Power:** Ensure the main power supply to the oil burner and heating system is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
2. **Access Burner:** Open the burner housing to access the motor assembly. This may involve removing covers or panels.
3. **Remove Old Motor:** Carefully disconnect the electrical wiring from the old motor, noting the color coding and connection points. Unbolt or unmount the old motor from its position. Be aware that the fan and pump may need to be detached from the motor shaft.
4. **Install New Motor:** Mount the new RIELLO 3005843 motor in the exact position of the old one. Ensure it is securely fastened. Reattach the fan and pump to the motor shaft, if they were removed.
5. **Connect Wiring:** Reconnect the electrical wiring to the new motor, matching the color codes and terminals precisely. Refer to the burner's wiring diagram if available.
6. **Reassemble Burner:** Close and secure all burner covers and panels.
7. **Test System:** Restore power to the burner. Perform a functional test according to the burner manufacturer's guidelines to ensure proper operation, including ignition, flame sensing, and safety cut-offs.

OPERATING INSTRUCTIONS

The RIELLO 3005843 Oil Burner Motor operates automatically as part of the oil burner's control sequence.

Once properly installed and the burner is powered, the motor will engage when a call for heat is initiated by the thermostat or control system.

- Ensure the burner is receiving adequate fuel and air supply.
- Monitor the burner's operation for any unusual noises, vibrations, or odors during startup and running cycles.
- If the burner fails to ignite or operates abnormally, refer to the troubleshooting section or contact a qualified technician.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your oil burner motor. All maintenance should be performed by a qualified technician.

- **Annual Inspection:** Have the motor inspected annually as part of your oil burner's routine maintenance.
- **Check for Wear:** Inspect the motor for any signs of physical damage, corrosion, or excessive wear.
- **Wiring Connections:** Ensure all electrical connections are clean, tight, and free from corrosion.
- **Cleanliness:** Keep the motor and surrounding area free from dust, dirt, and oil residue to prevent overheating and ensure proper ventilation.
- **Bearing Noise:** Listen for any unusual noises from the motor, which could indicate worn bearings. While the motor is a sealed unit, excessive noise warrants professional inspection.

TROUBLESHOOTING

If you experience issues with your oil burner, the motor may be a contributing factor. Always ensure power is disconnected before inspecting components.

Symptom	Possible Cause	Action
Motor does not start	No power, faulty wiring, seized motor/bearings, control issue	Check power supply and circuit breaker. Inspect wiring connections. If motor is seized or humming but not turning, contact a qualified technician.
Motor runs but burner does not ignite	Fuel supply issue, ignition system fault, photocell issue, pump fault	This indicates a problem beyond the motor itself. Consult the burner's manual or a technician for diagnosis of fuel, ignition, or pump issues.
Excessive noise or vibration from motor	Worn bearings, loose mounting, fan imbalance	Disconnect power. Check motor mounting bolts for tightness. If noise persists, motor bearings may be failing. Contact a qualified technician for replacement.
Motor overheats	Poor ventilation, excessive load, internal motor fault	Ensure burner housing is clear of obstructions. Verify fan is spinning freely. If overheating continues, contact a qualified technician.

For any issues not resolved by these steps, or if you are unsure, always contact a qualified service technician.

SPECIFICATIONS

Feature	Detail
Model Number	3005843 (C7001034, 7001034)
Brand	RIELLO
Compatibility	RIELLO F3, F5, F10 Oil Burners
Voltage	120V
Frequency	60Hz
Current	2.2A
Power	90W
RPM	3250 rpm
Product Dimensions	Approximately 1 x 1 x 1 inches (packaging dimensions may vary)
Item Weight	Approximately 0.01 ounces
Manufacturer	Riello
UPC	000330058436

WARRANTY AND SUPPORT

For warranty information regarding your RIELLO 3005843 Oil Burner Motor, please refer to the documentation provided at the time of purchase or contact your seller or the manufacturer directly. Protection plans may be available from third-party providers at the point of sale.

For technical support, service, or replacement parts, please contact a qualified RIELLO service technician or your authorized RIELLO dealer. Do not attempt repairs yourself unless you are a certified professional.

Manufacturer Contact: Riello