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Beckett 2454

Beckett 2454 a Series Coupling User Manual

For Use with AF, AFG, and NX Burners

PRODUCT OVERVIEW

The Beckett 2454 a Series Coupling is a critical component designed to connect the motor shaft to the fuel pump shaft in Beckett AF, AFG, and NX series oil burners. This coupling ensures proper power transmission, allowing the fuel pump to operate efficiently and deliver oil to the burner.



Image: The Beckett 2454 a Series Coupling, a cylindrical component with green and light gray end caps, designed for connecting motor and fuel pump shafts in oil burners.

SAFETY INFORMATION

WARNING: Installation and maintenance of oil burner components should only be performed by qualified service technicians. Failure to follow these instructions could result in property damage, personal injury, or death. Always disconnect power to the burner before servicing.

- Ensure the burner is completely de-energized before beginning any work.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Refer to the specific burner model's service manual for detailed disassembly and reassembly procedures.

SETUP AND INSTALLATION

This coupling is designed for direct replacement in compatible Beckett burners. Follow these general steps for installation:

1. **Power Disconnection:** Turn off the main power supply to the oil burner at the circuit breaker or fuse box. Verify power is off using a voltage tester.

2. **Access Burner Components:** Carefully open or remove the burner cover to access the motor and fuel pump assembly.
3. **Remove Old Coupling:** Locate the existing coupling connecting the motor shaft and fuel pump shaft. Gently pull or slide the old coupling off both shafts. Note its orientation.
4. **Inspect Shafts:** Clean and inspect both the motor shaft and fuel pump shaft for any damage, wear, or debris. Ensure they are free of burrs.
5. **Install New Coupling:** Align the new Beckett 2454 coupling with the motor shaft and the fuel pump shaft. Carefully push the coupling onto both shafts until it is fully seated. Ensure a secure fit without excessive force. The coupling should bridge the gap between the two shafts.
6. **Reassemble Burner:** Reattach any removed burner covers or components.
7. **Restore Power:** Restore power to the burner.

For detailed, model-specific instructions, consult your burner's official service manual.

OPERATING CONSIDERATIONS

The Beckett 2454 a Series Coupling operates passively, transmitting rotational motion from the motor to the fuel pump. No direct user operation is required for the coupling itself. Proper installation ensures seamless operation of the fuel pump.

- Ensure the burner operates smoothly after coupling replacement.
- Listen for any unusual noises (e.g., grinding, rattling) that might indicate improper installation or a misaligned component.

MAINTENANCE

The Beckett 2454 a Series Coupling is designed for durability, but regular inspection is recommended as part of routine burner maintenance.

- **Annual Inspection:** During annual burner servicing, visually inspect the coupling for signs of wear, cracks, or damage.
- **Check for Slippage:** If the burner motor runs but the fuel pump does not operate, or if there is a noticeable loss of fuel pressure, the coupling may be worn or stripped.
- **Replacement:** Replace the coupling if any signs of wear or damage are observed. It is a relatively inexpensive part and critical for burner function.

TROUBLESHOOTING

If your burner is experiencing issues related to the coupling, consider the following:

Problem	Possible Cause	Solution
Burner motor runs, but no fuel is delivered / burner doesn't fire.	Worn or broken coupling.	Inspect and replace the Beckett 2454 coupling.
Unusual noise (e.g., grinding, rattling) from burner.	Damaged or misaligned coupling.	Inspect coupling for damage and ensure it is properly seated on both shafts. Replace if damaged.
Intermittent burner operation.	Partially stripped coupling.	Replace the coupling.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician.

SPECIFICATIONS

- Model:** Beckett 2454 a Series Coupling
- Compatibility:** Beckett AF, AFG, and NX Burners
- Part Number:** 2454
- Dimensions:** Approximately 4 x 1 x 1.5 inches
- Weight:** Approximately 0.01 ounces
- Color:** Gray, Green, White

WARRANTY AND SUPPORT

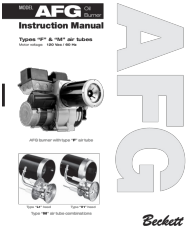


For information regarding warranty coverage or technical support for your Beckett product, please refer to the official Beckett website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Beckett Contact Information:

- **Website:** www.beckettcorp.com
- **Customer Service:** Refer to the website for current contact numbers.

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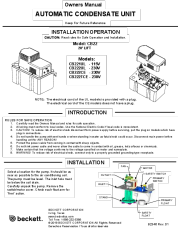
Related Documents - 2454

	<p>Beckett AFG Oil Burner Instruction Manual</p> <p>This instruction manual provides detailed guidance for the installation, operation, maintenance, and service of the Beckett AFG Model Oil Burner. It includes specifications, safety precautions, troubleshooting tips, and replacement parts information.</p>
	<p>Beckett OEM Specifications Guide for Residential Oil Burners</p> <p>Comprehensive OEM specifications guide for Beckett residential oil burners, providing detailed technical data for wholesalers, installers, and service technicians. Includes model numbers, nozzle requirements, air settings, and more for various manufacturers.</p>
	<p>Manuel de commande Beckett AquaSmart Modèle 7600</p> <p>Guide complet pour la commande de chaudière à microprocesseurs Beckett AquaSmart Modèle 7600. Découvrez ses caractéristiques, installation, programmation, fonctionnement et diagnostic pour une gestion efficace du chauffage.</p>



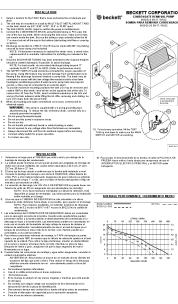
[Beckett POWERLIGHT 120VAC Igniter Installation Instructions](#)

Comprehensive installation guide for the Beckett POWERLIGHT 120VAC Igniter, including application information, specifications, safety warnings, and step-by-step instructions for proper setup and wiring.



[Beckett CB22 Automatic Condensate Pump: Installation, Operation & Safety Manual](#)

Comprehensive owners manual for the Beckett CB22 Automatic Condensate Unit. Includes detailed instructions for installation, safe operation, wiring, maintenance, troubleshooting, and limited warranty information.



[Beckett BK17/BK22 Condensate Removal Pump Installation and Maintenance Guide](#)

This guide provides detailed installation, maintenance, and safety instructions for Beckett BK17 and BK22 condensate removal pumps, including warranty information and performance specifications.