

Beckett 51805u

Beckett 51805u AFII Transformer User Manual

INTRODUCTION

This document provides essential instructions for the safe and effective installation, operation, and maintenance of the Beckett 51805u AFII Transformer. Please read this manual thoroughly before proceeding with any procedures to ensure proper function and safety.

SAFETY INFORMATION

DANGER: Hazardous Voltage. Tension dangereuse. This product operates with high voltage which can cause severe shock, burns, or death. Always turn off power at the main circuit breaker or fuse box before servicing or installing this unit. Failure to do so can result in serious injury or fatality. Entraîne une électrocution, des brûlures ou la mort. Couper le courant avant l'entretien courant. Installation and servicing should only be performed by qualified personnel.

PRODUCT OVERVIEW

The Beckett 51805u AFII Transformer is an original equipment manufacturer (OEM) component designed for use with AFII burners. This transformer is manufactured in the USA and is intended solely for its specified purpose.



Figure 1: Beckett 51805u AFII Transformer. This image displays the black rectangular transformer unit, mounted on a metal bracket. It features two black wires with clear spade connectors on one side and two twisted white and blue wires with orange spade connectors on the other. A warning label is visible on the top surface of the transformer.

Key Features:

- Made in the USA
- OEM Beckett component
- Designed for AFII burners
- Compact dimensions: 5.0"L x 5.0"W x 5.0"H

SETUP AND INSTALLATION

Important: Installation must be performed by a qualified technician. Incorrect installation can lead to equipment damage, electrical shock, or fire.

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the burner system is completely disconnected at the circuit breaker. Verify with a voltage tester.
2. **Identify Wiring:** Carefully identify and label all existing wiring connected to the old transformer, if replacing. Note the connections for primary (input) and secondary (output) circuits.
3. **Mounting:** Securely mount the new Beckett 51805u AFII Transformer in the designated location using appropriate fasteners. Ensure it is stable and free from excessive vibration.
4. **Wiring Connections:** Connect the primary and secondary wires to the transformer according to the burner manufacturer's specifications and local electrical codes. Ensure all connections are secure and properly insulated. Refer to the wiring diagram provided with your burner system.
5. **Final Check:** Double-check all connections for tightness and correct polarity. Ensure no bare wires are exposed.
6. **Power Restoration:** Once installation is complete and verified, restore power to the burner system.

OPERATION

The Beckett 51805u AFII Transformer functions automatically as part of the AFII burner system. Its primary role is to convert incoming electrical voltage to the specific voltage required for the burner's ignition system. Once properly installed and power is supplied, the transformer will activate as needed by the burner control system to facilitate ignition.

No user interaction is typically required for the operation of the transformer itself. Its function is integrated into the overall burner operation cycle.

MAINTENANCE

The Beckett 51805u AFII Transformer is designed for reliable, long-term operation with minimal maintenance. However, periodic inspection is recommended as part of routine burner system maintenance.

- **Visual Inspection:** Annually, or during burner servicing, visually inspect the transformer for any signs of physical damage, overheating (discoloration), or loose connections.
- **Cleanliness:** Ensure the transformer and its connections are free from dust, dirt, and debris, which can impede heat dissipation.
- **Connection Integrity:** Check that all electrical connections are secure and free from corrosion.
- **Professional Service:** Any issues identified during inspection should be addressed by a qualified service technician. Do not attempt repairs on the transformer yourself.

TROUBLESHOOTING

If the burner system is experiencing ignition issues, the transformer may be a contributing factor. Always ensure power is disconnected before inspecting components.

Problem	Possible Cause	Solution
Burner fails to ignite	No power to transformer, faulty wiring, internal transformer failure.	Verify power supply to the burner system. Check all wiring connections for security and continuity. Test transformer output voltage (requires specialized equipment and qualified personnel). If faulty, replace the transformer.
Burner ignites intermittently	Intermittent power supply, loose connections, aging transformer.	Inspect power supply and control circuits. Tighten all electrical connections. Consider professional assessment and potential replacement.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified HVAC technician.

SPECIFICATIONS

Attribute	Detail
Model Number	51805u
Part Number	51805U
Brand	Beckett
Manufacturer	APR Supply Co.
Item Weight	1.85 pounds
Product Dimensions	5 x 5 x 5 inches
Item Package Quantity	1
Batteries Included?	No
Batteries Required?	No
Date First Available	November 16, 2009

WARRANTY AND SUPPORT



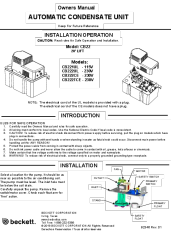
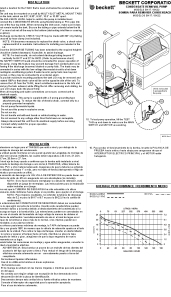


For information regarding warranty coverage, technical support, or replacement parts for your Beckett 51805u AFII Transformer, please contact Beckett Corporation directly or refer to their official website. Keep your purchase receipt as proof of purchase.

Manufacturer: APR Supply Co.

Brand: Beckett

For further assistance, consult a certified HVAC professional.

Related Documents - 51805u

	<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>
	<p>Beckett POWERLIGHT 120VAC Igniter Installation Instructions</p> <p>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.</p>
	<p>Beckett CB22 Automatic Condensate Pump: Installation, Operation & Safety Manual</p> <p>Comprehensive owners manual for the Beckett CB22 Automatic Condensate Unit. Includes detailed instructions for installation, safe operation, wiring, maintenance, troubleshooting, and limited warranty information.</p>
	<p>Beckett BK17/BK22 Condensate Removal Pump Installation and Maintenance Guide</p> <p>This guide provides detailed installation, maintenance, and safety instructions for Beckett BK17 and BK22 condensate removal pumps, including warranty information and performance specifications.</p>
	<p>Beckett AquaSmart 7610 Boiler Control: Product Sheet & Specifications</p> <p>Comprehensive product sheet for the Beckett AquaSmart 7610 Boiler Control. Details features, benefits, HeatManager™ functionality, optional wireless reset, ordering information, wiring diagrams, electrical ratings, temperature specifications, and environmental ratings. Includes part numbers for sensors and accessories.</p>
	<p>Beckett AquaSmart Model 7600 Advanced Boiler Control Installation and Operation Manual</p> <p>Comprehensive guide for the Beckett AquaSmart Model 7600 boiler control system, covering installation, wiring, programming, features like HeatManager™, and troubleshooting for residential and light commercial applications.</p>

