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Beckett 5270001U

BECKETT 5270001U 12VDC Igniter User Manual

Model: 5270001U | Brand: Beckett

PRODUCT OVERVIEW

The Beckett 5270001U is a 12 Volt DC igniter designed for use with ADC oil burners. This unit provides a constant duty ignition source, delivering a 20KV peak, 30 mA, 14,000 Volt spark with a midpoint grounded configuration. It is commonly found in 12VDC pressure washers from various brands, including Hot and Hotsy, that utilize Beckett ADC oil burners. This igniter replaces several Beckett models, including 5218301U, 5218301, 51777U, 51776U, S3-33XB-BADC, and Grainger 35U298. It can also serve as a replacement for a Carlin 40900S used on a Beckett ADC Burner.



Figure 1: The Beckett 5270001U 12VDC Igniter. This image displays the main igniter unit, which is a black rectangular component with wires extending from it. Also visible are additional wires and a small black mounting bracket, indicating the complete package for installation.

SAFETY INFORMATION

Always disconnect power before installing or servicing the igniter. Improper installation or handling of high-voltage

components can result in serious injury or death. Consult a qualified technician if you are unsure about any installation steps. Ensure all connections are secure and insulated to prevent electrical hazards.

SETUP AND INSTALLATION

The Beckett 5270001U igniter is designed for straightforward replacement in compatible systems. Follow these general steps for installation:

1. **Power Disconnection:** Before beginning any work, ensure that the power supply to the oil burner or pressure washer is completely disconnected. Verify with a voltmeter.
2. **Access Old Igniter:** Locate and carefully remove the existing igniter from the burner assembly. Note the orientation and wiring connections before removal. Taking photographs can be helpful.
3. **Wiring:** Connect the wires of the new Beckett 5270001U igniter to the corresponding terminals. The input voltage is 12VDC. Ensure correct polarity and secure connections. This igniter does *not* include an ignitor control board.
4. **Mounting:** Securely mount the new igniter in its designated position within the burner assembly. Ensure it is stable and properly aligned.
5. **Reassembly:** Reassemble any covers or components that were removed to access the igniter.
6. **Power Reconnection:** Once installation is complete and all connections are verified, restore power to the unit.

Note: Older style igniters may have contained a fifth, white wire. The 5270001U does not utilize this wire.

OPERATING INSTRUCTIONS

The Beckett 5270001U igniter operates automatically as part of the oil burner or pressure washer's ignition sequence. Once properly installed and connected to a 12VDC power source, it will generate a high-voltage spark to ignite the fuel when commanded by the system's control board.

- Ensure the fuel supply is adequate and the burner system is primed according to the manufacturer's instructions for the specific appliance.
- Initiate the start sequence of your oil burner or pressure washer. The igniter should produce a consistent spark to facilitate combustion.
- Monitor the system for proper ignition and stable operation.

MAINTENANCE

The Beckett 5270001U igniter is a sealed unit and generally requires minimal maintenance. However, regular inspection of the surrounding components is recommended:

- **Wiring Inspection:** Periodically check all electrical connections for tightness and signs of wear or corrosion. Ensure insulation is intact.
- **Cleanliness:** Keep the area around the igniter clean and free from dust, debris, or oil residue, which can interfere with proper operation or pose a fire hazard.
- **Electrode Gap:** While the igniter itself is sealed, the electrodes it powers (if external) should be checked for proper gap and cleanliness according to the oil burner's specific maintenance guidelines.

TROUBLESHOOTING

If the oil burner or pressure washer fails to ignite, consider the following troubleshooting steps related to the igniter:

Problem	Possible Cause	Solution
No Spark	No 12VDC power to igniter. Faulty wiring connection. Defective igniter.	Check power supply to the igniter. Inspect and secure all wiring connections. Test igniter for proper output; replace if defective.
Weak or Intermittent Spark	Low input voltage. Loose connections. Internal igniter issue.	Verify 12VDC input voltage is stable. Tighten all electrical connections. Replace igniter if problem persists.
Burner Fails to Ignite (Igniter sparks)	Fuel supply issue. Air supply issue. Other burner component failure.	Check fuel lines, filter, and pump. Ensure proper air intake. Consult the oil burner's specific manual or a qualified technician.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified service technician.

SPECIFICATIONS

Feature	Detail
Model Number	5270001U
Manufacturer	Beckett Corp.
Input Voltage	12VDC
Input Current	4.8 AMPS
Output Voltage	20KV PK
Output Current	30 mA
Spark Type	14,000 Volt Spark Midpoint Grounded
Duty Cycle	Constant Duty
Item Weight	1.92 pounds
Product Dimensions	6.83 x 7.77 x 6.83 inches
Item Package Quantity	1
Batteries Required	No

WARRANTY INFORMATION

For specific warranty details regarding the Beckett 5270001U igniter, please refer to the documentation provided with your purchase or contact Beckett Corp. directly. Warranty terms typically cover manufacturing defects under normal use conditions.

For technical assistance, replacement parts, or further inquiries, please contact Beckett Corp. customer support. You can typically find contact information on the manufacturer's official website or on the product packaging.


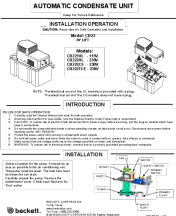

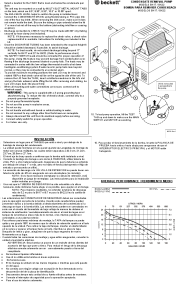
Manufacturer: Beckett Corp.

Please have your model number (5270001U) ready when contacting support.



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Related Documents - 5270001U

	<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>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 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>



[Beckett AquaSmart 7610 Boiler Control: Product Sheet & Specifications](#)

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.



[Beckett AquaSmart Model 7600 Advanced Boiler Control Installation and Operation Manual](#)

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.