

POWERLIGHT®

24Vdc IGNITER

Beckett®

INSTALLATION INSTRUCTIONS

Application Information:

- This igniter is designed for use with 24 VDC.
- It is rated for continuous duty and can be used with intermittent or interrupted ignition primary controls.
- The Beckett oil igniter is designed to mount in the same manner as standard igniters.
- This igniter can be adapted to multiple base plates to accommodate Beckett ADC & SDC burners. It will also fit on many other vendors' igniter base plates.

CAUTION

Do not use this igniter beyond its design specifications. Improper operation and igniter failure may result.

Specifications:

Input Voltage: 21.6 - 32 VDC

Output Voltage: 19 kV peak

Output Current: 35 mA RMS

Input Current: 2.0A Maximum

Ambient Operating Temperature: -40° to +150° F

Storage Temperature: -40° to +150° F

Moisture: 5% to 95% Relative Humidity, Condensing

WARNING

Electrical Shock Hazard

Electrical shock can cause severe personal injury or death.

- Disconnect all electrical power to the burner before servicing. More than one disconnect switch may be in the supply circuit.
- Installation and service must only be performed by a qualified service technician.
- Remove all jewelry, such as rings and watches, before servicing.
- Provide ground wiring to the burner, metal control enclosures, and accessories. (This may also be required to aid proper control system operation.)



Table 1 - Complete Igniter Base Plate Assemblies

Igniter	Description	Replaces
5272001U	Beckett ADC 24 Vdc	5218501U
5272002U	Beckett SDC 24 Vdc	5218502U
5272005U	Igniter only	5218503U

Installation Instructions:

(If base plate is already installed, skip to step number 9.)

1. Locate the igniter input leads.
2. Install the 32302 igniter gasket and route the leads through the appropriate base plate lead exit hole. Make sure these leads are not being crushed.
3. Mount the igniter flush to base plate with the mounting screws supplied.
4. Note: Use (4) #6 x 7/16" Phillips head screws when using the bottom mounting holes. Use (2) #10 x 5/16" hex head thread-forming, paint-scraping screws if using the two top mounting holes.
5. Tighten all screws securely.
6. Install the barrier and base plate gaskets for Beckett Model ADC only.
7. Use gaskets for other burner models as required by the manufacturer.
8. Mount the assembled unit to the burner using the screws supplied.
9. Use paint-scraping screws for all burners (2 at the hinge and 2 for non-hinged base plates). Tighten these screws securely to provide effective grounding to burner housing.
10. Verify the burner is properly connected to the negative battery terminal.
11. Install the cad cell if applicable.
12. Carefully route the igniter input leads to prevent them from being pinched during closing of the igniter at the hinge.
13. Wiring Igniter to GeniSys 24 VDC Primary Control:
 - Carefully follow the control or equipment manufacturer's wiring instructions and diagrams.
 - Fasten cad cell leads to control CAD CELL spade terminals.
 - Attach the Black lead with insulated flag terminal to the primary control GND (IGN) spade terminal.
 - Connect the Blue-White striped lead with insulated flag terminal to the primary control IGNITER spade terminal.

Continued on Reverse ►

(Instructions Continued)

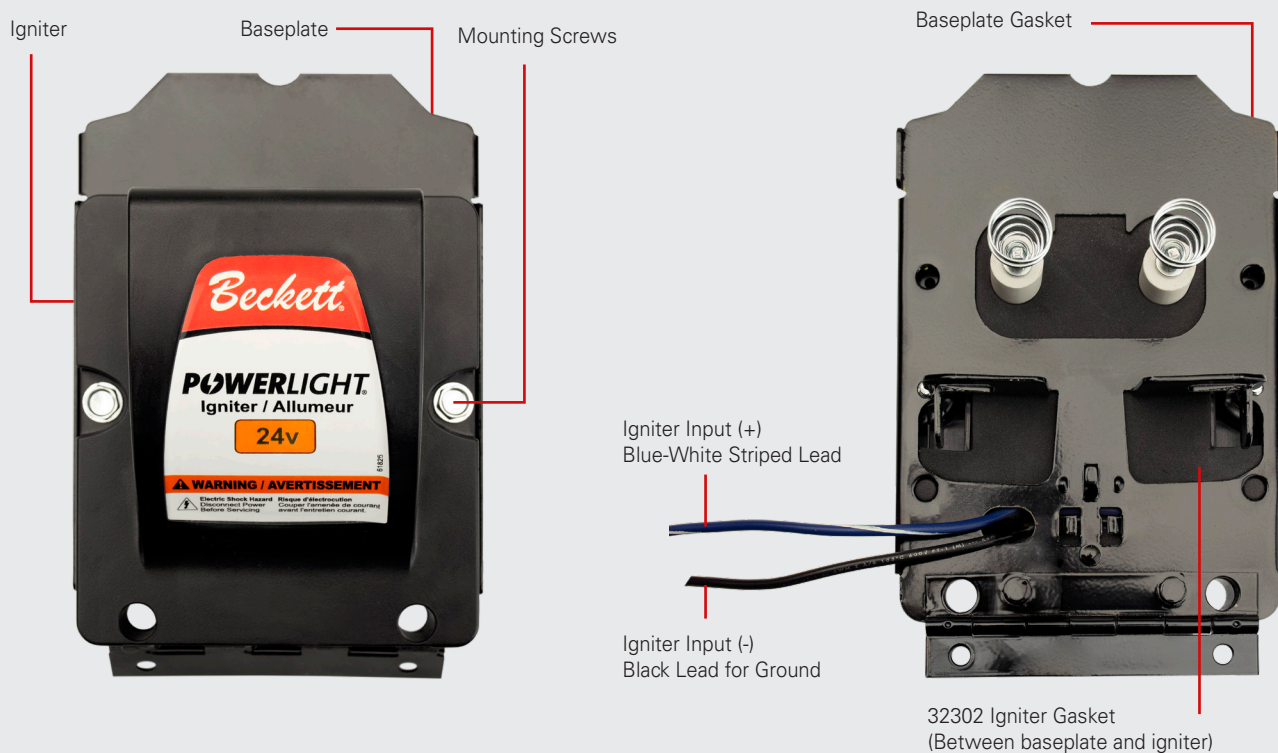
14. Verify the igniter secondary output/spring terminals are correctly arranged to make good electrical contact with the oil burner electrodes.
 15. Close the igniter. Install and securely tighten the two front base plate retaining screws (4 screws, if no hinge).
 16. Reconnect electric power to the burner circuit.
17. Verify with instruments that the burner is adjusted to the manufacturer's recommended settings.
 18. Cycle the burner several times to verify prompt and smooth ignition. Verify proper operating and limit control operation before leaving.

Table 2 - Igniter Base Plate Bill of Materials

Part No.	Burner Models	Baseplate Gasket	Baseplate	Igniter Gasket	Barrier Gasket
5272001U	Beckett ADC 24 Vdc	31520	51780BK	32302	32301*
5272002U	Beckett SDC 24 Vdc	n/a	51855BK	32302	n/a
5272005U	Igniter Only	n/a	n/a	n/a	n/a

* 32301 Barrier Gasket is used only on Beckett Model ADC.

Figure 1 - Igniter Assembly Components (5272001U shown. Other models will have different baseplates and terminals.)



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