

INSTALLATION INSTRUCTIONS

ELECTRONIC GAS IGNITER • 240 VAC

APPLICATION INFORMATION:

- This igniter is secondary one-end ground and designed for use with 240 VAC Beckett gas burners.
- It is rated for continuous duty and can be used with intermittent, or interrupted ignition primary controls.
- The Beckett gas igniter is designed to mount in the same manner as standard ignition transformers and igniters.
- This igniter can be adapted to multiple base plates to accommodate Beckett residential and commercial burners.

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

SPECIFICATIONS:

Input Voltage: 168-264 VAC, 50/60 Hz

Output Voltage: 19 kV peak

Output Current: 25 mA RMS

Input Current: 0.3A

Secondary One-end Ground

Ambient Operating Temperature: -40 to +150° F

Storage Temperature: -40 to +150° F

Moisture: 5 to 95% Relative Humidity, Condensing

Table 1 - Complete Igniter Base Plate Assemblies

| Part No. | Burner Models |
|----------|--------------------|
| 5199704U | CG10 & CG10A |
| 5199705U | CG15, CG25, & CG50 |

- Note: Use #6 x 7/16" screws when using the bottom mounting holes. Use #10 thread forming paint scraping screws, if using the two top mounting holes for 5199704. For 5199705, use 1/4" machine screws, placing (1) 1/4" lockwasher between screwhead and baseplate to ensure ground for 5199705.
- Tighten all screws securely.
- Install base plate gaskets for Beckett CG10, CG15, CG25 and CG50 burners.
- Use of top mounting screws is possible for Beckett CG10 through CG50 burners.
- Mount the assembled unit to the burner using the screws supplied.
- Use "paint scraping" screws for all burners (2 at the hinge and at least 2 for non-hinged base plates). Tighten these screws securely to provide effective grounding to burner housing.
- Verify the burner is properly grounded.
- Carefully route the igniter input leads to prevent them from being pinched during closing.
- Wire white to neutral and blue to primary control ignition lead. Refer to the burner or appliance manufacturer's wiring diagram.
- Verify the igniter secondary output terminal lead is correctly arranged to make good electrical contact with the gas burner electrode.
- Verify the ignition electrode gap and orientation are set to the manufacturer's specifications.
- Close the igniter. Install and securely tighten the two front base plate retaining screws (4 screws if no hinge).
- Reconnect electric power to the burner circuit.
- Verify with instruments that the burner is adjusted to the manufacturer's recommended settings
- Cycle the burner several times to verify prompt and smooth ignition before leaving.

WARNING Electrical Shock Hazard



Failure to disconnect all power sources could result in severe personal injury or death.

- Disconnect all electrical power to the burner before servicing. There could be more than one disconnect switch in the supply circuit.
- Installation and service must only be performed by a qualified service technician.
- Perform all wiring in compliance with the National Electric Code ANSI/NFPA 70 (Canada CSA C22.1).
- Connect burner housing and circuit to earth ground.

Installation Instructions *(If base plate is already installed, skip to step number 8):*

1. Locate the igniter blue "hot" and the white "neutral" input leads.
2. Install the 32411 igniter gasket, if required, 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.

⚠ WARNING Electrical Shock Hazard

Failure to wire the burner correctly could cause serious injury or death.

- Perform all wiring in compliance with ANSI/NFPA 70 (Canada CSA 22.1).
- Connect the electrical circuit and burner housing to earth ground.

Beckett
POWERLIGHT™
240 VAC Gas Igniter

Figure 1 - Igniter Assembly Components - 5199704U shown.

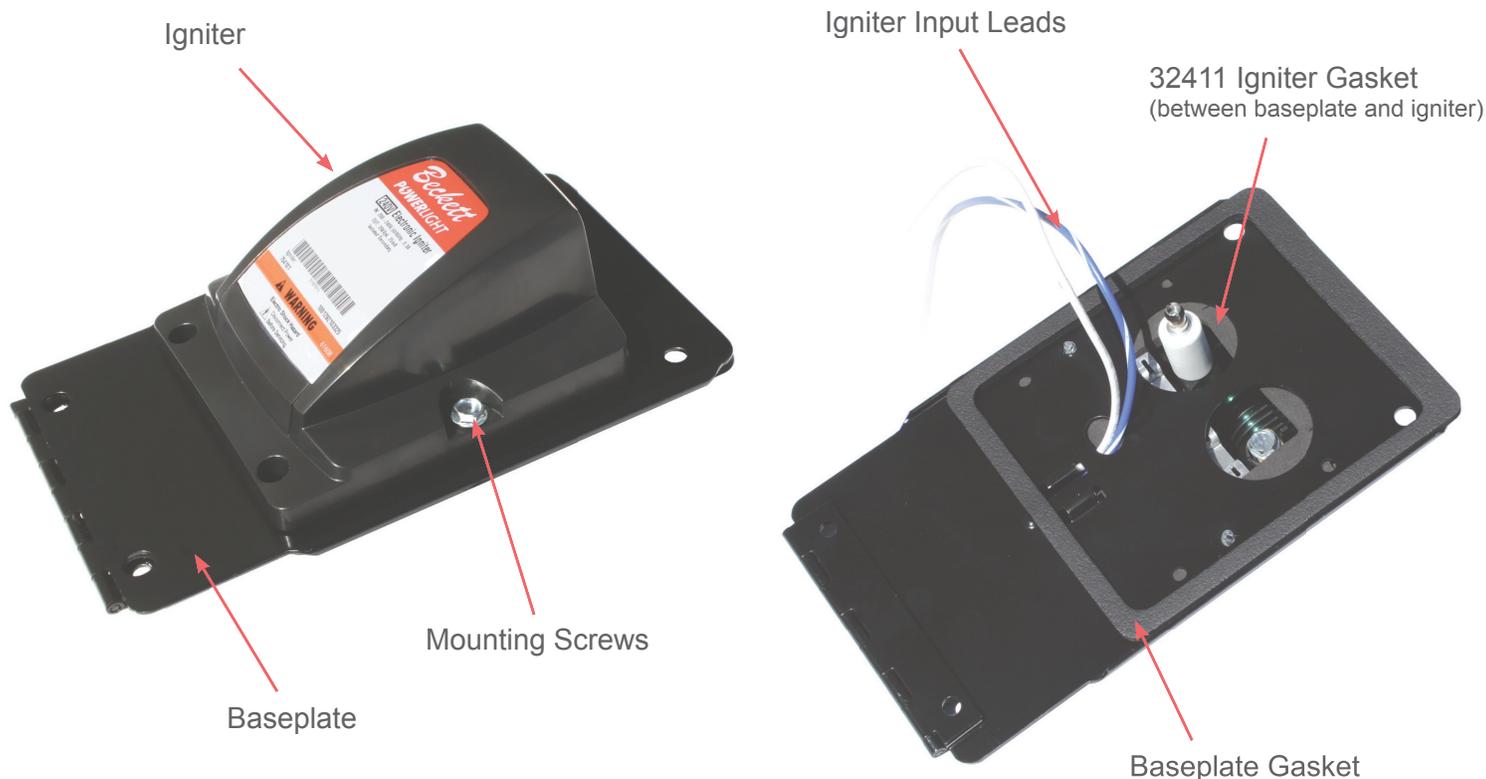


Table 2 - Igniter Base Plate Bill of Materials

| Part No. | Burner Models | Baseplate Gasket | Baseplate | Igniter Gasket |
|----------|------------------|------------------|-----------|----------------|
| 5199704U | CG10 & CG10A | 31481 | 51855BK | 32411 |
| 5199705U | CG15, CG25, CG50 | 31412 | 32173BK | 32411 |

R.W. BECKETT CORPORATION

P.O. Box 1289, Elyria, Ohio 44036

R.W. BECKETT CANADA, LTD

430 Laird, Unit 3, Guelph, Ontario, N1G 3X7