

CAUTION!

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IMPORTANT NOTICE

1. CONNECT IGNITER POWER TO 24 VAC POWER ONLY; NEVER CONNECT TO 120 VAC.
2. DO NOT SHORT 24 VAC IGNITER INPUT POWER LEADS TO GASLIGHT CHASSIS.
3. KEEP PHOTO-SENSOR LEADS WELL SEPARATED (>.75 INCH) FROM THE HIGH VOLTAGE LEAD.

ALL WARRANTIES ARE VOID IF THE ABOVE INSTRUCTIONS ARE VIOLATED.

Igniter Installation



IMPORTANT INFORMATION FOR END USER INSTALLER

- **USE WITH 24 VAC TRANSFORMER ONLY**
- Connecting directly to 120VAC or hooking up transformer backwards will damage unit and void warranty
- **DO NOT** short 24V wires to chassis or earth ground; the 24 VAC power must be floating from the output of the transformer
- It is recommended that an inline fuse be installed at the transformer in one 24 VAC input line

**The igniter power input circuitry has been designed to protect the igniter against improper hook-up. It will withstand a short; however, the igniter will not work until it is properly powered without any shorts to chassis or earth ground. If the 24 VAC lead has been shorted, the igniter will shut down to prevent damage. The short must be cleared and 24 VAC power verified before powering up again.

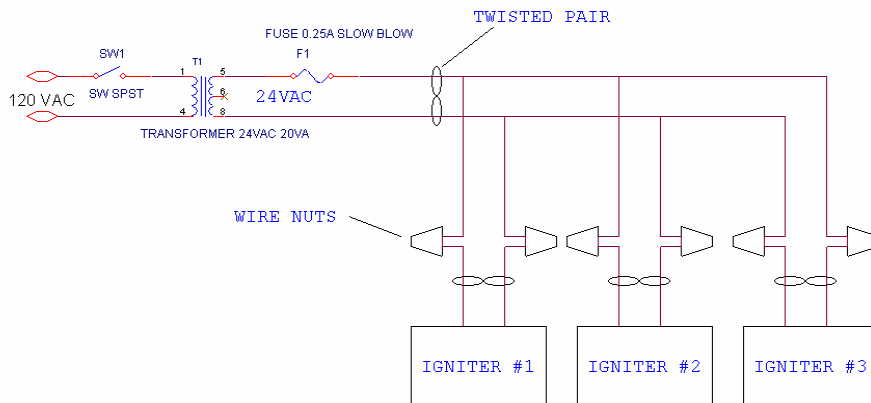
**This modification will not protect against hook up to 120 VAC or hooking the transformer up backwards; doing this will void warranty.

For questions and technical support please call 651-636-1008.

Hookup Diagram



MODEL: KNA1-24A-S HOOKUP DIAGRAM



Knightronix™ Knightlighter Gaslight Igniter

24VAC Mantle Burner Edition

QuickStart Installation and Operating Instructions



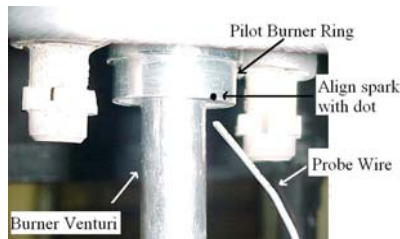
Final Set-up

1. Align the igniter and position daylight sensor (photo sensor on yellow and black twisted wires) so the daylight sensor is not pointed toward any bright lights (street lights, Holiday lights, etc.)
2. The daylight sensor must have a clear view of daylight for the lamp to shut off during the day.
3. Be sure that the daylight sensor does not view the lamp flame or reflections off the glass.
4. The back of the daylight sensor is also sensitive to light; cover it with a sheath or with black electrical tape so the lamp does not shine on the back side of the plastic sensor.
5. Check the alignment of the flame sensor; verify that it is pointed up toward the position of the flame. If necessary, apply sheath to flame sensor.
6. Check the alignment of the ignition probe (see Probe Alignment Instructions).
7. Check the gas line for leaks using bubble water solution or a gas detector around the fittings. If any leaks are present, correct them before powering the igniter. Turn on the gas.
8. Replace the glass in the gaslight.
9. Proceed to Operational Checkout instructions.

KNIGHTRONIX™ DIRECT WIRE™ HIGH VOLTAGE PROBE ALIGNMENT FOR MANTLE BURNING GASLIGHT

The DIRECT WIRE™ high voltage probe has been pre-positioned. Before operating, be sure to check probe alignment and adjust as described below.

Probe Alignment



Probe Gap



Final Probe Alignment:

Verify that the high voltage lead wire (black) from the igniter probe on the burner to the high voltage coil of the igniter board is connected. The probe shall be aligned and positioned so that the spark shall project up from the open wire probe to the bottom edge of the pilot burner ring at the point that is marked with a black dot; the spark should not spark to the burner venturi. The gap shall be about 3/16 inch. (See photos above.)

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Operational Checkout

Operational Checkout of the Automatic Gaslight

1. Cover the flame sensor and the daylight sensor with black tape or otherwise to simulate darkness.
2. Turn on power to igniter.
3. Sparks shall appear across the spark probe to the pilot burner ring (mantle configurations), burner tip (open flame configurations) and the solenoid valve shall open. The gaslight shall light.
4. Remove the tape from the flame sensor and the gaslight shall remain lit.
5. Remove the tape from the daylight sensor and the lamp shall go out in about 5 minutes. Replace the glass panels.
6. This completes the gaslight checkout. It is ready to operate.



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Probe Alignment