



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 OPEN FLAME GASLIGHT

The Direct Wire™ high voltage probe uses a NiChrome wire that runs directly from the high voltage transformer to the spark gap at the side of the burner slit.

Probe Alignment



Probe Gap



Final Probe Alignment:

Align the Direct Wire™ probe so that it is just within the Flame Boundary and perpendicular to the slit near the base of the burner tip; the probe gap should be approx. 3/16" for proper sparking. Make sure the probe wire does not extend out in front of the burner more than 1/4". Probe wire should be slightly bent around to the side (away from burner) so that the spark will come off the side of the wire and direct the spark to the brass tip at the slit area; the igniter will not light reliably if the wire sparks from the end. It is important that wire sparks from the side rather than the end of the wire.

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



Operational Checkout

Operational Checkout of the Automatic Gaslight

1. Use the included wire nuts or the snap connector to connect the 6VDC battery pack to the input power wires on the KnightLighter™ Igniter. Connect the Black (-) battery wire to the Black (-) input power wire on the igniter. Connect the Red (+) battery wire to the Red (+) input power wire on the igniter.
2. Cover the lamp sensor and the daylight sensor with black tape or otherwise to simulate darkness.
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 30 seconds. Replace the glass panels.
6. This completes the gaslight checkout. It is ready to operate.



Knightronix™ Knightlighter Gaslight Igniter

6V Battery Open Flame Burner Edition

QuickStart Installation and Operating Instructions

BATTERY IGNITER TROUBLESHOOTING



TEST MODE

1. Sparks but does not light or lights inconsistently.

Probe adjustment; spark gap shall be 3/16 inch. Sparks shall appear across the spark probe to the pilot burner ring (mantle configurations), or to the side of the burner tip at the slit (open flame configurations)

2. Sparks and lights but does not stay lit.

Flame sensor is not seeing the flame (*If using, optional cover may be blocking the Flame Sensor view) or Daylight Sensor is seeing the flame (unit will cycle on and off). Adjust sensors. Remember to remove cover from Flame Sensor when unit lights.

3. No Spark. Solenoid clicks ON and then OFF, valve does not open.

Daylight sensor is seeing light. Cover sensor.

4. No Spark. Solenoid clicks ON and valve stays open during ignition cycle and then clicks off.

Spark gap is too wide. Adjust Probe, see Probe Adjustment on Page 1.

5. Igniter resets i.e. clicks on/off continuously.

Spark gap is too close. Adjust to 3/16 inch.

Igniter Troubleshooting

OPERATIONAL MODE

Gaslight does not light in the evening.

1. Check for bright lights in the area. Cover sensors; if unit lights, make sure Daylight Sensor is not pointed toward any bright lights (street lights, Holiday lights, etc.). 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 (*If using, optional cover may be blocking the Flame Sensor view).
2. Battery voltage is too low. Check batteries. Individual battery voltage shall be greater than 1.45 VDC. Replace batteries. Be sure batteries are installed correctly with negative end on the spring.
3. Check for conditions noted under Test Mode section.

NOTE: For QuickConnect Assemblies; the easiest way to replace the batteries is to unplug the igniter and remove the igniter from the lamp. The igniter can be taken to the shop where the batteries can be removed from the holder and replaced with new alkaline batteries. Be sure batteries are installed correctly with negative end on the spring.

Be careful not to get dirt in the gas receptacle when removing and replacing the igniter and make sure the igniter is fully seated after reinstalling. Check for gas leaks.

*Optional Brass Igniter Covers: If using Igniter Covers, they must be properly installed so that the flame sensor protrudes thru the small hole in the cover to view the flame. Covers can be left off if they can not be readily installed.



The Engineering Edge

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