Knightronix, Inc. 2212 Silver Lake Rd. New Brighton, MN 55112 USA.
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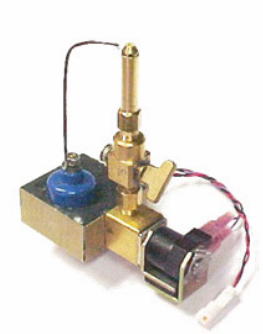
Knightronix ™ KnightLighter ™ Automatic Gaslight Igniter Installation Instructions

6V Battery Side-Mount Igniter and Open Flame Burner (With QuickConnect Gas Light Plug-in Receptacle Kit – KNQPR2 or KNQPR3)

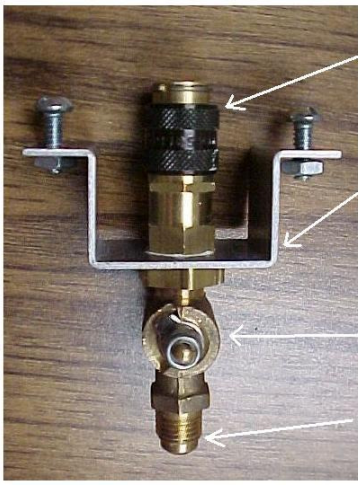
INSTALLED IN MHP GG-2A AND GLM 1900 OR EQUIVALENT

The KnightLighter™ igniter with the solenoid valve mounted on the side of the igniter box is designed to be installed in the bottom of the gaslight head. It should fit almost on the floor of the gaslight so as to be inconspicuous.



KNA1-6BI-DF-S
KnightLighter Automatic Gaslight Igniter

KnightLighter 6V Battery Side-mount Igniter with Knightronix Open Flame Burner installed in aluminum four-sided gaslight.



Gas line connection with optional Quick-Connect fitting and mounting bracket.

KnightLighter QuickConnect Receptacle in bottom of gaslight head.

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6V BATTERY IGNITER/OPEN-FLAME BURNER INSTALLATION IN MHP GG-2A AND GLM 1900 OR EQUIVALENT

Upgrading and new installation procedures for installing the Knightlighter 6V Battery Gaslight Igniter in MHP GG-2A or GLM 1900 open-flame burner gaslights or equivalent post, wall, or pier mount gaslights. (Start at instruction 7 for installations in new gaslight heads.)

1. Turn off the gas to the gaslight at the source going to the gaslight so that the gaslight with its manual valve can be removed.
2. Remove the glass from the gaslight.
3. Loosen the set screw that holds the gaslight on the pier/post and raise the gaslight to allow disconnecting the manual valve from the copper tubing. A lamp jack may be useful for this procedure. Take the gaslight to a work area
4. Remove the burner assembly from the manual valve; save.
5. Remove the manual valve.
6. Clean and repair the gaslight if necessary.

Start here for installation in new gaslight head:

7. The quick-connect fitting with modified manual shut-off valve shall be preinstalled in the bracket (See Figure 1) before installing in the light. NOTE: Apply TFE Paste thread sealer to each connection if not already applied. (Photo shows GLM manual valve, another valve may be substituted).

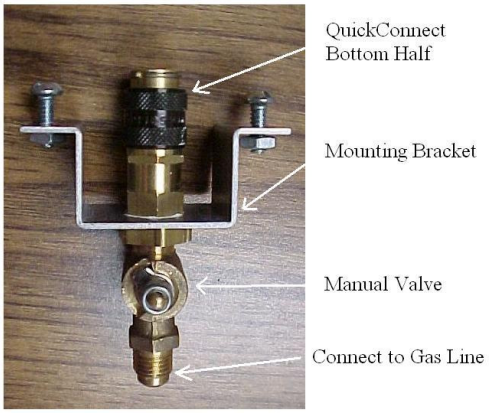

Figure 1

8. Install the quick-connect holding bracket by drilling two (3\16") clearance access holes for #10 screws in the base of the gaslight, using the bracket as a template (See Figure 2).

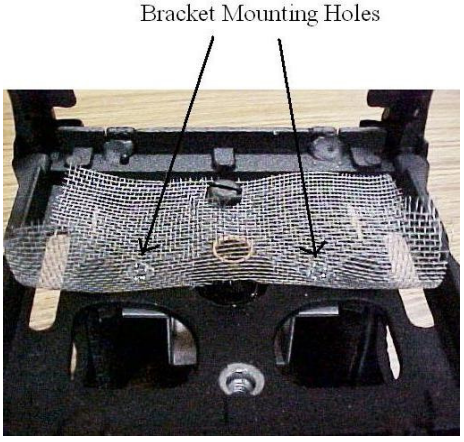

Figure 2

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Bottom View of Mounting Bracket

Figure 3

9. The bracket is installed below the floor of the light in the post cavity (See Figure 3). Use two #10-24 fasteners (included) to hold the bracket in place. The bracket is threaded, but extra nuts may be used if desired.

10. Reinstall the gaslight on the post or pier; connect the 1/4" copper gas line by tightening the 1/4" Flare Nut onto the input to the gaslight valve. If using another type of valve, attach a 1/4" x 1/8" Flare fitting if necessary (See Figure 4). Push the copper tubing down into the post (for post installations).

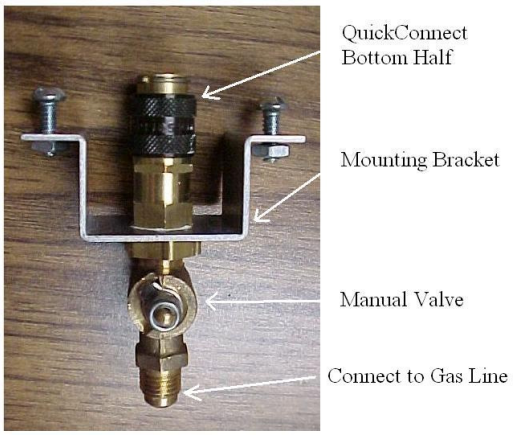

Figure 4

11. Install the Igniter/Open Flame Burner (See Figure 5) in the gaslight by snapping the unit into the quick connect fitting. Check to make sure connection is secure. (Batteries should already be in the battery holder.)

Figure 5

12. 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.)
13. The daylight sensor must have a clear view of daylight for the lamp to shut off during the day.

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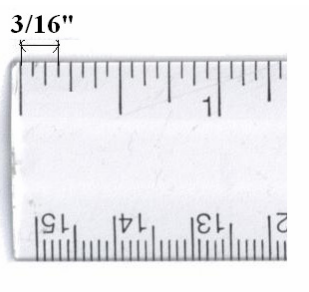
14. Be sure that the daylight sensor does not view the lamp flame or reflections off the glass.
15. The back of the daylight sensor is also sensitive to light; cover it sheath or with black electrical tape so the lamp does not shine on the back side of the plastic sensor.
16. Check the alignment of the lamp sensor; verify that it is pointed up toward the position of the flame. Apply sheath to lamp sensor.
17. Check the alignment of the ignition probe. **The igniter/burner is a single unit with an open wire probe leading from the high voltage transformer to the probe gap at the side of the open flame. The probe shall be aligned crosswise of the slit and be positioned just within the gas/air boundary of the flame coming out of the side of the burner slit. The gap shall be about 3/16 inch. (See photos below.) No ceramic insulator or bracket is required. This arrangement has the added advantage that soot will not build up on the probe.**

(Ruler shown to scale)

3/16" Ignition Probe Gap

Probe positioned within flame boundary

18. 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.
19. If using in the battery holder, install 4 AA batteries if not already installed.
20. Snap together the connector on the 6VDC battery pack/holder to the input power wire connector on the KnightLighter™ Igniter. The LED on top of unit will flash twice to signal power on.
21. Replace the glass in the gaslight.

This completes the installation of the automatic gaslight.

Quick Checkout of the Automatic gaslight:

1. Snap together the connector on the 6VDC battery pack/holder to the input power wire connector on the KnightLighter™ Igniter. The LED on top of unit will flash twice to signal power on.
2. Cover the lamp sensor and the daylight sensor with black tape or otherwise to simulate darkness. Sparks shall appear across the spark probe to the open flame burner and the solenoid valve shall open. The gaslight shall light.
3. Remove the tape from the flame sensor and the gaslight shall remain lit.
4. Remove the tape from the daylight sensor and the lamp shall go out in about 30 seconds.
5. Replace the glass panels.
6. This completes the gaslight checkout. It is ready to operate.