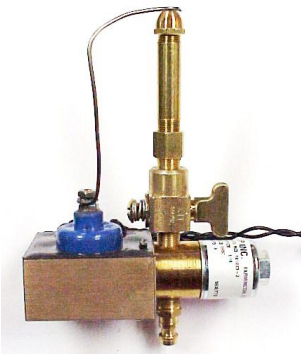


Knightronix™ KnightLighter™ Automatic Gaslight Igniter

Installation Instructions

**24VAC Side-Mount Igniter and Open Flame Burner in GLM 1900 or Equivalent
(With QuickConnect Gas Light Plug-in Receptacle Kit – KNQPR2 or KNQPR3)**

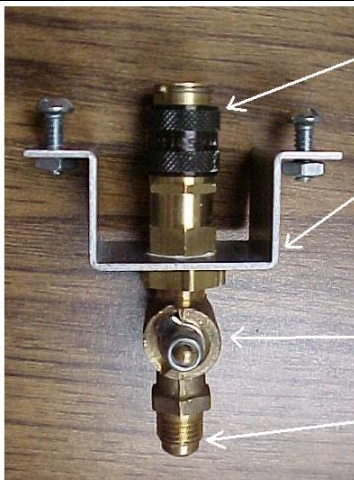
The KnightLighter igniter with the solenoid valve mounted on the side of the igniter box is designed to be installed in the bottom of the gaslight head. It should fit almost on the floor of the gaslight so as to be inconspicuous.



**KNA1-24AI-S-O KnightLighter
Automatic Gaslight Igniter**



**KnightLighter KNA1-24A-S-O; installed in
aluminum four-sided gaslight.**



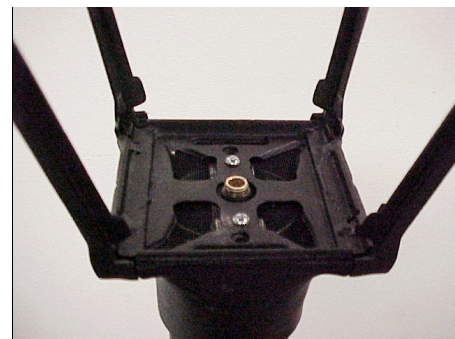
QuickConnect
Bottom Half

Mounting Bracket

Manual Valve

Connect to Gas Line

**Gas line connection with optional
QuickConnect fitting**



**KnightLighter Receptacle Installation
in bottom of gaslight head.**

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

Upgrading and new installation procedures for installing the Knightronix Knightlighter 24VAC Gaslight Igniter with QuickConnect Plug-in Receptacle Kit with mounting bracket in the 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 a modified GLM manual valve, another valve may be substituted).

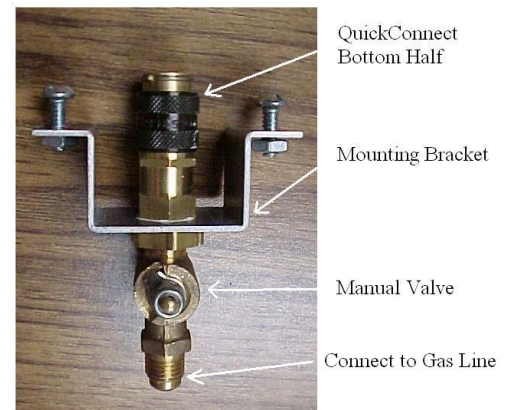


Figure 1

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).

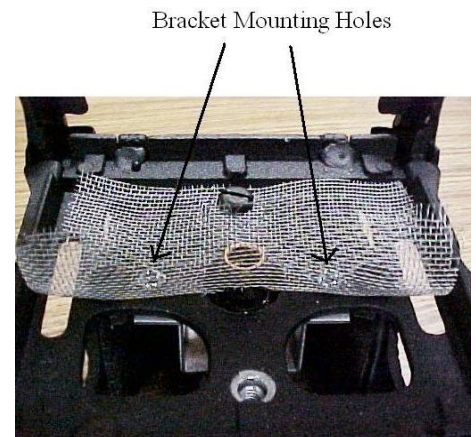


Figure 2

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.

Bottom View of Mounting Bracket



Figure 3

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).

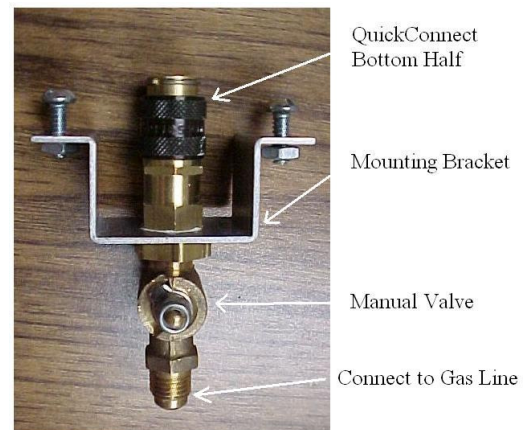


Figure 4

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.

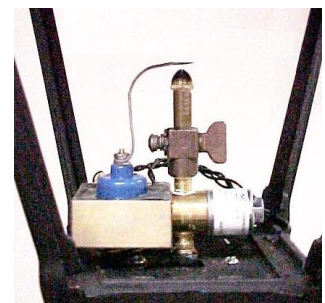
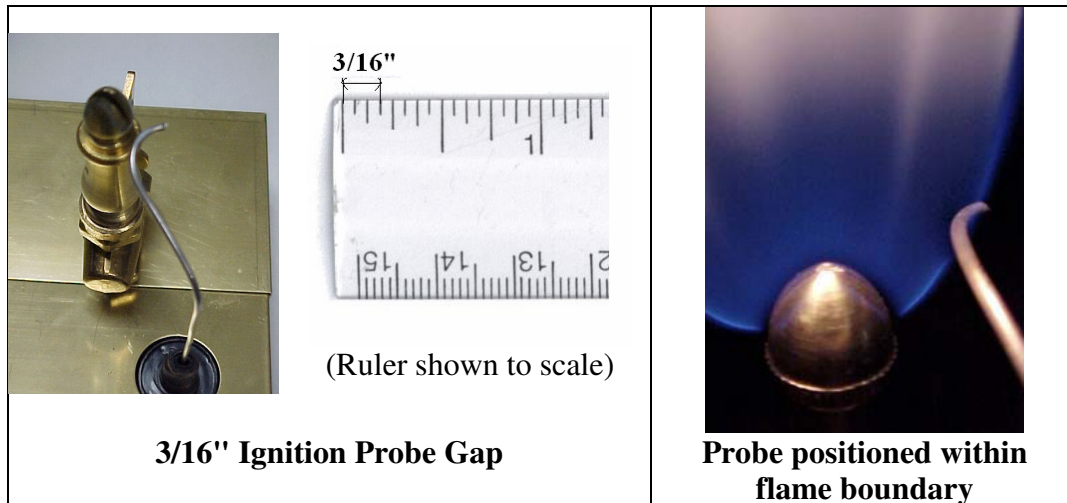


Figure 5

Skip steps 12 – 15 if not using Daylight Photo-sensor

12. Align the igniter and 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.
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.**



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.
19. Use small wire nuts to connect the 24VAC power wires to the input power wires on the KnightLighter Igniter. The input wires on the 24VAC igniter are not polarized or color coded.

NOTE: NEVER CONNECT 120 VAC DIRECTLY TO THE IGNITER. The 24VAC igniter will not withstand 120 VAC. A transformer must be used to convert 120VAC to 24VAC.

20. Replace the glass in the gaslight.
21. Turn on the gas.

This completes the installation of the automatic gaslight.

Quick Checkout of the Automatic gaslight:

1. 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.
2. Remove the tape from the flame sensor and the gaslight shall remain lit.
3. Remove the tape from the daylight sensor and the lamp shall go out in about 3 minutes.
4. Replace the glass panels.
5. This completes the gaslight checkout. It is ready to operate.