

**AIM (Automatic Ignition Module) Gaslight Ignition Device Installation Instructions
For models AIM20, AIM20R, AIM30, AIM30R
Not for use with LP Gas!**

Note: All installations should conform to all local plumbing and electrical codes.

This appliance must be installed by qualified, licensed service personnel.

For outdoor use only! One pane of glass must be removed from the light!

NOTE: Please read these instructions in their entirety BEFORE beginning installation. Leave these instructions with consumer.

Electrical requirement: 110 volt, grounded outlet.

Gas requirement: At least 2,000 BTU's of natural gas @ 7" water column. This product is tested and designed for natural gas only. The gas valve and spark control module within the control box is C.G.A design certified to ANSI standards. Do NOT install this device on a higher than rated gas supply!

Overall Operation: The AIM20 Automatic Ignition Module is designed to be used on only open-flame gaslights to automatically ignite them when an electrical switch is turned on. To operate, simply activate the remote electrical switch (provided by user). Do not touch the electrode while the switch is on! When gas reaches the burner tip and ignites, the electrode senses ignition and automatically stops sparking. Note: it is normal to occasionally hear ticking due to either the flame being blown away from the sensor temporarily or if the unit does not have a good earth ground. If the flame at the burner tip should blow away from the sensor, the sensor may cause the ignition module to spark temporarily. This is normal and is why the light is relit instantly, should the wind blow it out. If ignition is not sensed by the unit or if your light should blow out, the ignition unit will keep the gas valve open and continue to spark until the electrical power is turned off.

Each gaslight must have an AIM20 for its individual operation. You may have multiple AIM20's on the same electrical circuit so one electrical switch controls multiple lights. The actual number of lights you can operate off the same circuit depends on the size of the wire, length of run, etc. Ask your licensed electrician.

Gaslight Shutdown: To shut off the light completely, simply turn off the remote electric switch and it will cause the gas valve to close and shut down the automatic igniter.

For ceiling-mount installations, make sure that the bottom of the gaslight is installed at least 8 feet off the ground and at least 18" below combustible construction materials (wood). The environment should be dry and not exposed to excessive moisture. Make sure you use all gasket materials provided with the AIM unit.

For wall-mounted installations the rear control box connections should be installed facing the wall. The bottom opening of the control box must be installed facing down to prevent water infiltration. The control box is designed to be installed outdoors but not in an unusually damp area. Make sure the control box is **not** installed in the path of sprinklers. This is an electrical and gas appliance and must not be subjected to direct sprays of water. If these controls have been subjected to water, do not use them.

Connect the inlet and outlet gas connections using approved materials. Make sure you connect the gas inlet to the gas SUPPLY and gas outlet to the side going to the gaslight line. A minimum supply of 2,000 BTU's of natural gas is required for the light to operate correctly.

Make sure that the orange wire does not receive any nicks or cuts in its protective coating during installation. If the orange coating is removed, you will experience a "short" and the electrode may not have enough power to operate. Run the orange lead wire through the light but away from the flame and plug it into the electrode on bottom of the gaslight burner.

Final connection and operation: When all of the connections are made and metal gas supply tubing has been run, connect the electrical wires to a grounded circuit with a switch. Make sure electrical power is turned off before attempting any electrical connections! The electrically-operated gas control valve is designed to be used by a remote switch that operates the electric valve to the gaslight. ALSO there are no user-serviceable parts inside. There is the danger of electrocution if you open the control box! If you are experiencing problems, check the troubleshooting points below, then call the number below for assistance. The wiring is as such: There are two black wires from the transformer, either of them go to the 110 volt hot side, the other is a neutral. The bare wire from the valve control goes to the bare or green wire, ground from the power supply.

Gas Connections: Double check all gas connections for leaks using a soapy solution of water. If bubbles appear, shut off gas supply and retighten connections as necessary then recheck. NEVER check for leaks with an open flame!

Light Adjustment: If one is supplied, the manual “on-off” gas valve on the light is to remain open at all times when the gaslight is combined with the automatic gas ignition system. When the valve handle is across the burner, it is in the off position. When the handle is running the same way as the gas supply, the valve is in the completely open position. You may use this valve to control the overall height of the flame. As a general rule, the flame should be approximately 2 to 2 1/2” tall during normal operation.

Troubleshooting:

No spark to the electrode: Make sure you have power to the control box; is the electrical switch in the “on” position? Is there a nick or cut in the orange lead causing it to short (you’ll hear a ticking sound somewhere besides the burner tip while it is in operation, if there is a nick) Is the ceramic around the electrode broken? If it is necessary to adjust the electrode tip, make sure you support the ceramic surrounding it so it is not broken. The ignitor tip should be approximately ¼” off the burner tip. Is the electrical outlet grounded? It is necessary for this appliance to be installed on a grounded circuit. An additional earth ground is usually not necessary. This unit is not designed to operate on a GFI or GFCI circuit. In some cases it will work, however it may be necessary to provide a designated non-GFI circuit for proper operation.

No gas coming out or delayed ignition: The first time you operate the gaslight there will be air in the line and it may take a minute or so for gas to get to the tip. If after two minutes, you still do not have ignition, check the gas supply. Is the gas supply on? Is the manual “on-off” valve on the light turned on? Is gas getting to the control box? Notice-this ignition device is designed to operate just ONE gas light. You may have multiple AIM20’s on one electrical circuit thereby turning them all on at once, but each light must have one AIM20 for its use.

Maintenance: Be sure to turn off the ignition device at the remote switch before attempting any maintenance or cleaning. Occasionally it may be necessary to clean the glass. Open the door and use a standard household glass cleaner on the inside and outside of the panes. To clean the outside of the light simply wipe down with a mild soapy solution followed by wiping with plain water. Over time it is normal for your light to “age naturally” as it is exposed to the elements. This natural aging process makes it look more authentic to its period. You may also need to clean-out the slit in the burner tip if you should experience stoppage or a flame that is moving to one side and not burning evenly. A razor blade or other fine edge works well in cleaning this out. It may also be necessary to clean small amounts of soot from the electrode tip. Simply wipe this off with a soft cloth to do so. If the build-up is excessive, the tip may need to be moved back slightly from the flame pattern. Also-Make sure nothing is obstructing the flow of air or ventilation from the top or bottom of the light. Do not store gasoline or other flammables in the proximity of this device!

You may also want to check to see that you have adequate gas supply. The minimum gas requirement for gaslights is 2,000 BTU’s per hour, each.

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