MVK-HC

IMPORTANT

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING

These instructions must be used as a supplement to the instructions supplied with your gas log set. Follow the Gas Log Set instructions and make appropriate adjustments for addition of safety pilot kit. Gas supply must be ½" minimum I.D. and with appropriate pressure.

General Instructions

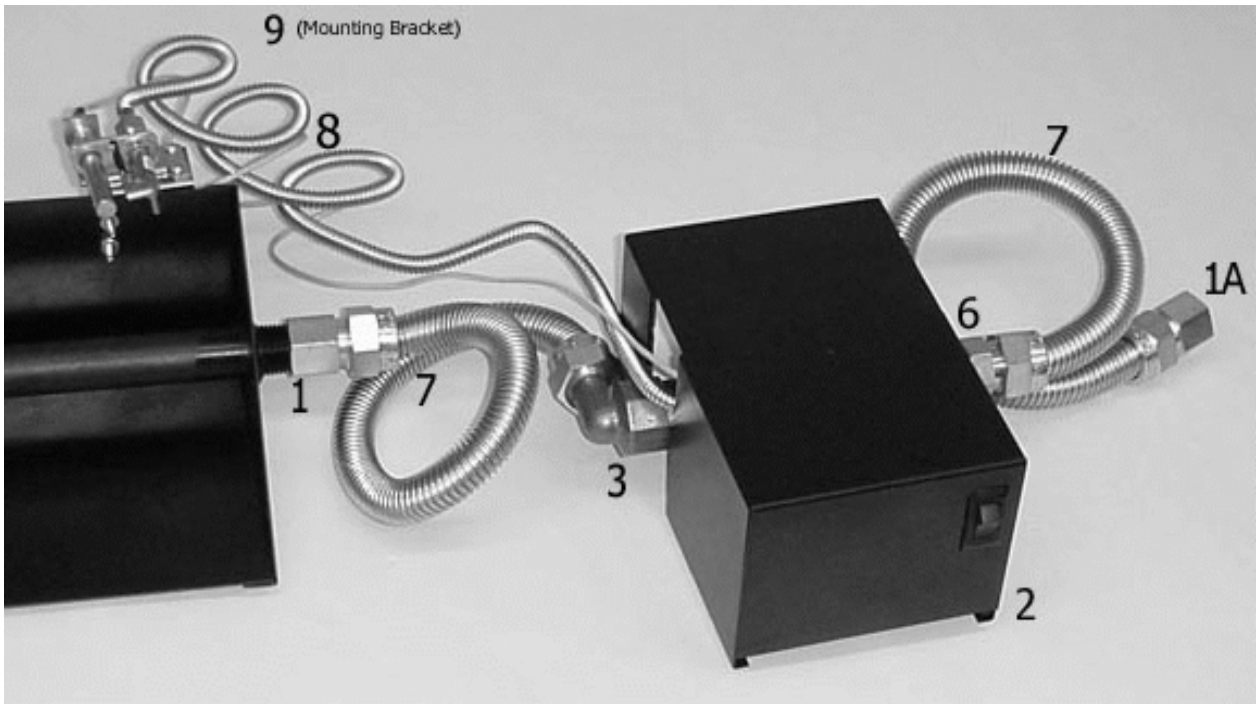
We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute) or in Canada by WETT (Wood Energy Technical Training). Installer must follow all instructions carefully to ensure proper performance and safety.

Installer: Please leave these instructions with consumer.

Consumer: Please retain these instructions for future use.

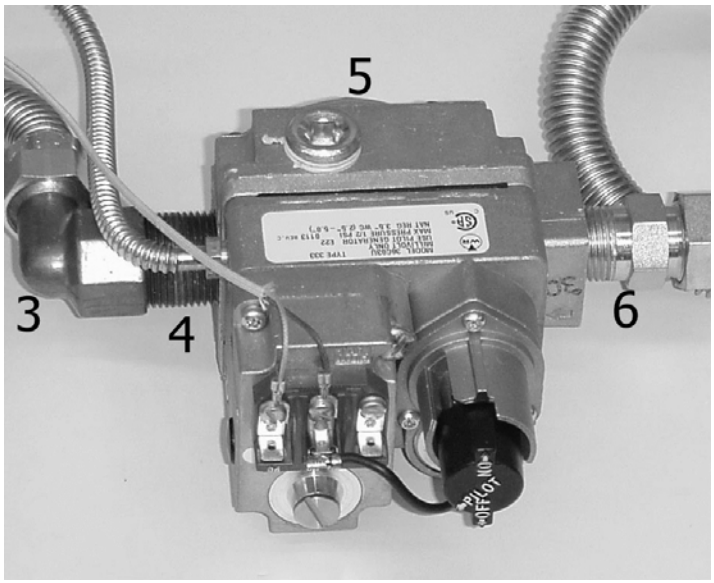
INSTRUCTIONS FOR MVK-HC PILOT KIT

For natural gas applications on sets that have external ½" threads on the end of the burner tube such as Hargrove, Delta, Golden Blount, Uniflame, Burns & Howe, Haugh's, Fireside & American Gas Log.



MVK-HC Parts List

1A	½" x 15/16" Connector - To connect incoming gas pipe stub to #7 Flex Line
1	½" x 15/16" Connector - To connect pan with ½" external threads to #7 Flex Line
2	Insulated Heat Shield with On/off Switch
3	15/16" x 3/4"Female elbow
4	3/4" Close Nipple - To connect valve outlet to #7 Flex line
5	Valve/High Limit Switch
6	½" x 15/16" Connector - To connect valve inlet to #7 Flex Line
7 *(2)*	10" Flex Line
8	Pilot Burner Assembly
9	Pilot Burner mounting bracket
0	Parts Bag (not shown)



IMPORTANT

FOR YOUR SAFETY - WHAT TO DO IF YOU SMELL GAS.

1. Shut off gas to valve. 2. Extinguish any flame. 3. Go to a phone outside your home and call your gas supplier.
4. If you can't reach your gas supplier, call the Fire Department.

IF YOU HAVE GLASS DOORS - To prevent damage to remote control system, keep them open while burning log set.

USE PIPE DOPE OR TAPE ON ALL MALE PIPE THREAD CONNECTIONS. DO NOT USE IT ON MALE FLARE CONNECTIONS.

INSTALLATION INSTRUCTIONS

Note: Valve must be installed in the right front corner of the fireplace.

Step 1) Using pipe dope or tape connect female end of one of the part #1A to incoming gas pipe.

Step 2) Using pipe dope or tape connect pipe thread end of part #6 to inlet port on valve.

Step 3) Connect one end of #7 flex line to male flare end of part #6.

Step 4) Using pipe dope or tape, connect part #4 to outlet port on valve.

Step 5) Using pipe dope or tape, Connect female end of part #3 to end of part #4

Step 7) Connect one end of the second #7 flex line to the flare end of part #3.

Step 8) Using pipe dope or tape, connect female end of part #1 to the burner pan tube.

Step 9) Using two 6/32 x 3/8" bolts & nuts from parts bag attach part #8 to part #9. Position pilot burner assembly (part #8 with Thermopile and pilot burner pointing toward you and parallel to each other. Position pilot burner mounting bracket (part #9) with side with slots horizontal and under the bracket of part 8. Line up 2 holes in bracket on part 9 with the 2 slots on the right side of part 8. Attach two parts together.

Step 10) Using the other two 6/32 bolts & nuts attach the #8/9assembly to the outside back or end of burner pan. Match 2 (of 4) holes on left side of part 9 to holes in burner pan.

Step 11) Now you have a "Valve Assembly".

Step 12) Connect other end of #7 flex line that is connected to part #6 to flare end of part 1A that is mounted on incoming gas pipe.

Step 13) Connect other end of second #7 flex line coming from part #3 in outlet port of valve to flare end of fitting mounted on burner pan tube(part #1).

Step 14) Very carefully bend aluminum pilot burner tube around to side of valve. Screw end fitting of aluminum tube into that hole. Do not over tighten. Finger tight plus 1/4 turn is enough.

Step 15) Bring wire leads from thermopile of part #8 pilot burner assembly around to terminal block on rear top of valve. Connect 1 lead to terminal TH/PG, the other to terminal PG.

Note: First time start ups or re-connections - be sure all air has been bled from all supply lines so gas is getting to pilot. Pilot will not light until all air is bled from system. This may take several minutes. Put a flame to pilot burner every 5 to 10 seconds with knob depressed until pilot lights. Pilot flame is preset at the factory and should encircle the thermopile.

Step 16) Turn gas on to valve. Light plot by aligning the "Pilot arrow" on the knob to the red line on the valve. Push knob in as far as it will go, apply flame to pilot burner every 5-10 seconds until pilot lights,

then hold knob in for 30-60 seconds until pilot stays lit when knob is released. Turn knob to align "On arrow" with red line to light the main burner.

Step 17) **NOW IS THE TIME TO TEST FOR LEAKS. USE SOAPY WATER ON ALL CONNECTIONS. BUBBLES WILL SHOW LEAKS. SHUT GAS OFF AND REPAIR LEAKS BEFORE LEAVING YOUR SET BURNING.**

Step 18) For wiring instructions for HI LIMIT switch and On/Off switch see enclosed page 196. If you are using a remote control or wall switch, see instructions in those kits.

Step 19) Slide part #2 heat shield over valve with cut outs sliding over the fittings going into the valve.

Step 20) Finish the burner pan, grate and logs per the instructions that came with your log set.

ATTENTION

If, during operation, you experience shut down of the main burner and pilot, it is probably due to overheating the thermopile on the pilot burner assembly. This is usually caused by the thermopile being too close to the main burner flame. If you are having this problem, here is what to do.

a) Make sure pilot burner assembly is mounted so pilot burner is as far as possible away from the first flame hole in the burner tube. If you were able to move the pilot burner as much as an inch, this may be enough.

If you still have shutdown:

a)c) Bend back of part #9 pilot burner mounting bracket downward so pilot burner assembly becomes more vertical. You can do this in stages until the thermopile is far enough away from main burner so you no longer experience shut down.

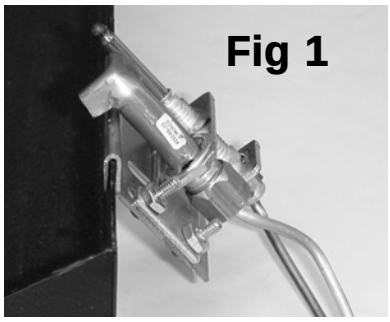
b) Drill 2 new holes in burner pan ½" to 1" further from the flame port in the burner pan. Remount pilot burner assembly.

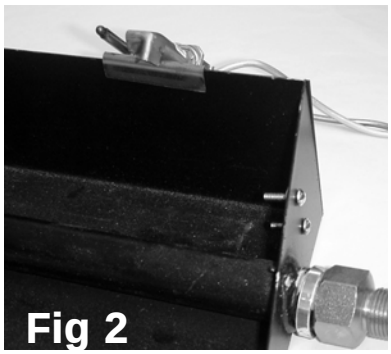
c) If, during operation the main burner goes out, but the pilot stays lit, it is because the valve has gotten too hot and the high limit switch has shut down the main burner. This may be because you are burning with the glass doors closed or some other material is obstructing the air flow to the valve heat shield. Open glass doors or clear obstruction When valve temperature reduces to 165˚, the main burner will automatically come back on.

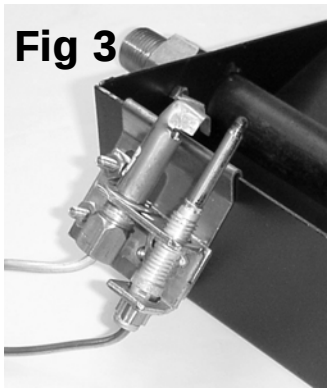
IT IS EXTREMELY RARE FOR A THERMOCOUPLE OR VALVE TO FAIL DUE TO DEFECT.
SEE BELOW BEFORE REMOVING EITHER FROM THE FIREPLACE.

Symptoms	Possible Cause	Solution
Pilot won't light.	1) Gas line not bled to let gas reach pilot.	1) Bleed lines.
	2) Pilot adjustment screw not open far enough.	2) Open pilot adjustment screw. (Turn to Left).
	3) Gas not reaching pilot because valve is installed backwards.	3) Re-install Valve.
	4) Pilot gas supply tube burned or crimped.	4) Replace pilot burner assembly. Route away from main burner flame.
	5) Knob on valve not being in far enough.	5) Push in about 1/4".
	6) Pipe dope or tape used on thermopile connections.	6) Remove pipe dope or tape.
	7) Soot or rust covering outlet hole on pilot orifice.	7) Clean thoroughly and open hole with pin.
Pilot won't stay lit	1) Thermopile is not hot enough.	1) Make sure pilot flame is strong and is hitting thermopile. 1a) Make sure thermopile is paint, carbon & rust free. 1b) Hold knob on valve in longer.
	2) Thermopile lead too tight or not tight enough at valve.	2) Adjust to finger tight + 1/4 turn.
	3) Insulation burned off thermopile lead.	3) Replace and route away from main burner flame.
Pilot lights but burner won''t.	1) Gas not getting to burner. Valve control not set to ON position.	1) Turn control knob to "ON" position.
	2) Valve/Receiver not wired correctly.	2) Rewire.
	3) Pilot Burner Assembly to valve not	3) Rewire.
	4) Gas not getting to burner due to debris in line.	4) Disassemble and clean line.
Pilot lights, burner lights, but system goes out after a while.	1) Thermopile over heating.	1) Consult Instructions
Flames come out of holes on air/mixer orifice **(LP systems)**	1) Air mixer/orifice installed incorrectly.	1) Install air mixer/orifice of holes so long end and air holes face toward valve (away from main burner).
Whistling Sound	1) Seldom caused by pilot.	1) Check log set burner, orifice (if used) and amount of material covering burner.
	2) Possibly a too small flex connector.	2) Use minimum ½" OD connector.
Soot on Logs	1) Rarely caused by pilot.	1) Check for flame impingement on logs. 2) Adjust air mixer if using LP.

New Pilot Mounting Bracket Instructions







Our new pilot-mounting bracket allows easier and faster installation of any of our pilot assemblies. It also allows installer to conveniently move the pilot in any overheat situation without having to drill new holes in the burner pan.

Step 1

Assemble pilot to mounting bracket with two screws and nuts supplied in the parts bag (as shown in Fig 1). The bracket is slotted allowing you to adjust the pilot up and down. We recommend that the flame just clear the top of the burner pan

Step 2

Take remaining two screws and nuts and put them in the holes (if any) that are there to mount the bracket to. This will prevent any flames coming through the holes and burning the pilot tube.

Caution

GLASS DOORS AND DAMPER MUST REMAIN OPENED DURING OPERATION
THE CONTROL KNOB MAY BECOME HOT AND CAN BE REMOVED AS NEEDED (SOME VALVES CANNOT)
PILOT CAN GO OUT DUE TO DOWNDRAFTS AND/OR FLUCTUATING GAS PRESSURES.
NEVER THROW COMBUSTIBLE MATERIALS ONTO GAS LOGS. (IE, PAPER, PINE PONES, TRASH, FOOD, CIGARETTES ETC)

Pilot Lighting instructions

1. **Caution** – Doors must be left open during operation of gas logs. Operating gas logs with doors closed will overheat control and void warranty
2. Fireplace damper must be fully opened with damper clamp in place during operation.
3. Be sure gas supply to the fireplace is on.
4. Before lighting pilot remove all the logs from the grate carefully and set them on a piece of newspaper or towel. **Please note the logs will be very dirty it is best to use glove when handling the logs.**
5. Turn the gas control knob to the pilot position (pilot marker on control knob pointing to 12:00 or upward position).
6. Push in on the control knob. The knob should depress approximately ½ inch, this will release a small amount of gas to the thermocouple and pilot lighting area. See pictures above
7. While continuing to depress the control knob, light a match or lighter and put it into the thermocouple and pilot lighting area. A small blue flame should appear.
8. Continue to depress the control knob for 45 seconds to 1 minute while the pilot flame is lit.
9. When the gas control knob is released, the pilot flame should continue to burn (if the pilot goes out repeat the above steps).
10. Rotate the gas control knob from “pilot” to the “on” position approximately ¼ turn counterclockwise (Refer to control knob and valve for exact location) to supply full flow to main burner.

MVK Wiring Supplement

IMPORTANT

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General Instructions

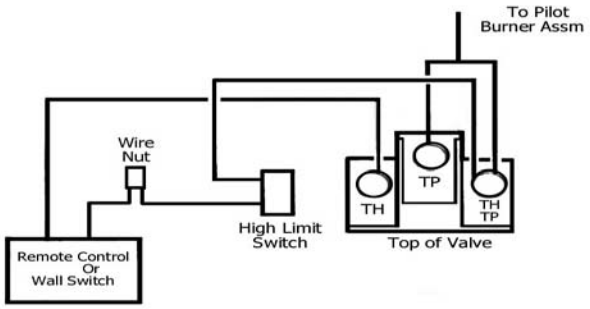
We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute) or in Canada by WETT (Wood Energy Technical Training). Installer must follow all instructions carefully to ensure proper performance and safety.

1) If you are using a remote control or wall switch but **do not** have a Timer or On/Off switch wire as shown in **Diagram 1**.

2) If you are using a remote control or wall switch and have **either** a Timer or On/Off switch, wire as shown in **Diagram 2**.

3) If you are using a remote control or wall switch and have **neither** a Hi-Limit, Timer, or On/Off switch, connect the remote control or wall switch wires directly to TH & TH/TP.

Standard Millivolt Valves



High Capacity Valves

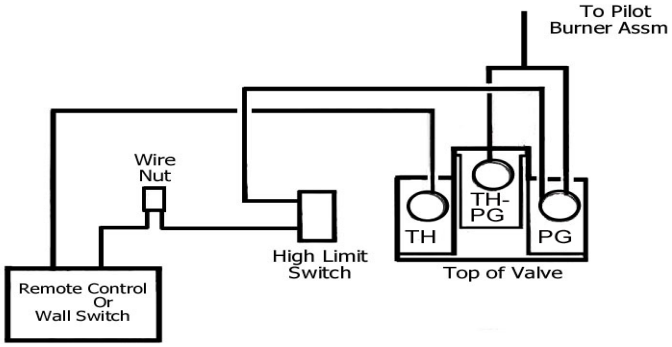
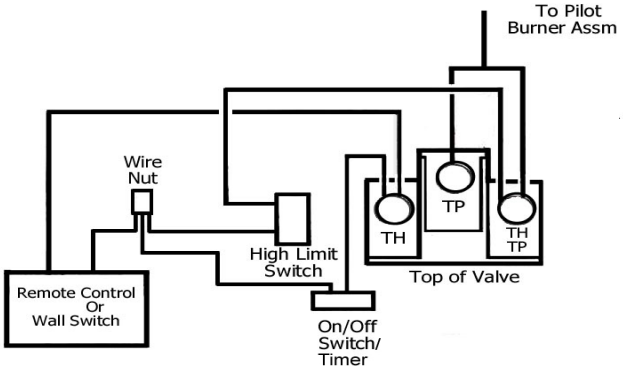


Diagram 1



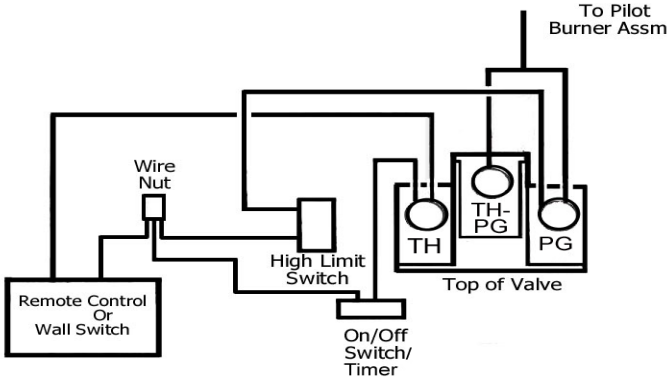


Diagram 2

6/26/09