

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 1/2" minimum I.D. and with appropriate pressure.

General Instructions

This safety pilot kit must be installed by a qualified person. Installer must follow all instructions carefully to ensure proper performance of safety pilot kit.

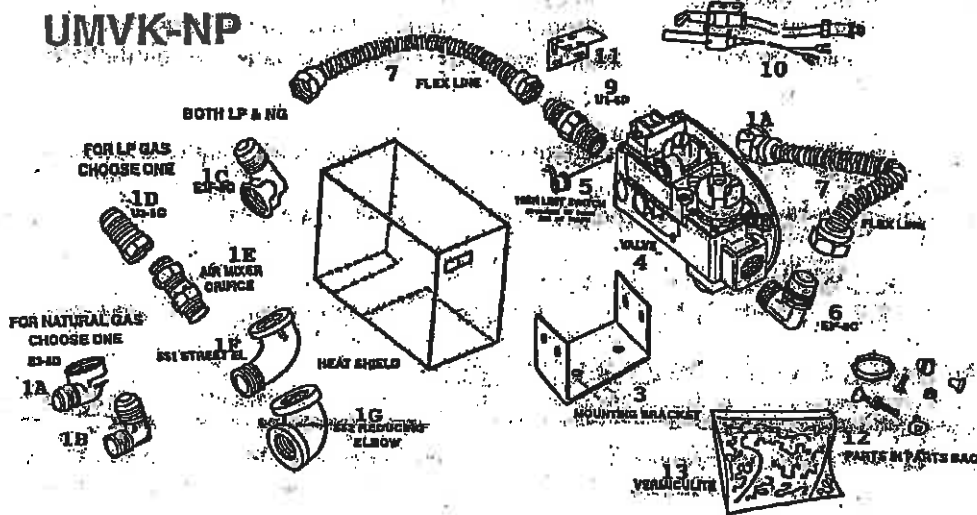
Installer: Please leave these instructions with consumer.

Consumer: Please retain these instructions for future use.

INSTRUCTIONS FOR U MVK-NP PILOT KIT

UMVK-NP

For natural gas applications on sets that have internal 3/8" threads in end of burner tube such as Majco, Glo Fire, Rasmussen, Bohanna & Pearce, Sunbeam, Heatmaster, Sure Heat & Timberline, 3/8 external threads such as Peterson, those sets that have external 1/2" threads on the end of the burner tube such as Hargrove, Delta, Golden Blount, Uniflame, Burns & Howe, Haugh's, Fireside & American Gas Log.



UMVK-NP Parts List

1A	407	E3-8D Elbow - To connect #7 Flex Line to incoming gas pipe stub
1A	407	E3-8D Elbow - To connect #9 connector to #7 Flex Line
1B	401	E1-8C Elbow - To connect burner pan with 3/8" internal threads to #7 Flex Line
1C	408	E3-8C Elbow - To connect pan with 3/8" external threads to #7 Flex Line
1D	422	U3-8C Adapter - To connect 1E air mixer/orifice/nut to #7 Flex Line
1E	460	Thar 1-47 Air Mixer/Orifice/Nut
1F	502	Street EL - to connect burner pans with 3/8" internal threads to 1E air mixer/orifice/nut
1G	503	Reducing Elbow - to connect burner pans with 1/2" external threads to 1E air mixer/orifice/nut

2	206/207/212/213	Insulated Heat Shield with Hi Limit Switch
3	205	MB Mounting Bracket
4	202	Natural or LP Gas Valve
5	211	TD225 225" high limit switch (on back end of valve)
6	401	E1-8C Elbow - To connect valve inlet to #7 Flex Line
7 (2)	229	20-9898-10" Flex Line
9	411	U1-6D Connector - To connect valve outlet to #7 Flex line
10	203	Natural Gas Pilot Burner Assembly
11	120	PBMB Pilot Burner assembly mounting bracket
12	609	661 Parts Bag
13	615-1	Vermiculite

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

When these instructions refer to the front, left side etc. of the valve, it is assumed the "IN" port of the valve is facing you and the control knob is on the top. See part #4 in parts illustrations. Front, Top & Left side are showing.

When these instructions refer to the bottom or left side of mounting bracket it is assumed the mounting bracket is positioned like a "U" and the leg on the left has the holes that match the two screw holes on the left center side of the valve.

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

Step 1) Determine whether the valve and heat shield should be installed standing up or laying down.

Note: When laying valve down be sure to leave enough room between fireplace wall and control knob on valve to allow operation of the control knob.

Step 2) Step 1 will help you determine where the mounting bracket should be installed in the fireplace floor. This bracket is used to

stabilize the valve in the appropriate position. Remove valve from bracket.

FOR LAYING VALVE & HEAT SHIELD DOWN

Use two slots in right leg of bracket to attach it to the fireplace floor. Use two smallest self drilling screws in Parts Bag.

FOR STANDING THE VALVE & HEAT SHIELD UP

Use two screw holes in bottom of bracket to attach it to the fireplace floor. Use two smallest self drilling screws in Parts Bag.

IMPORTANT: The smallest self drilling screws usually work just fine but, in some material they don't hold well. If they don't, remove them and using the holes they made as pilot holes, insert larger self drilling screws from parts bag.

NOTE: IF YOUR GAS SUPPLY IS LP (PROPANE) GO TO LP APPLICATION SECTION ON PAGE 4, IF IT IS NATURAL - PROCEED TO STEP 3.

Step 3) Using pipe dope or tape connect female end of one of the part #1A to incoming gas pipe.

Step 4) Using pipe dope or tape connect pipe thread end of part #6 to inlet port on front of valve. The port is marked "IN".

Step 5) Connect one end of #7 flex line to male flare end of part #6.

Note: If your incoming gas pipe is located on the left side or center of the fireplace, determine distance from end of #7 flex line to incoming gas pipe. Get EXT-18, EXT-24 or EXT-30 from dealer to span that distance. Using brass union in this kit connect the flex line in this kit to #7 flex line.

Step 6) Using pipe dope or tape, connect pipe thread end of part #9 to outlet port on back of valve.

Step 7) Connect one end of the second #7 flex line to the flare end of part #9.

Step 8) Select one of three parts to connect to burner pan. Use #1A to connect to pans with 1/2" external threads, 1B for pans with 3/8" internal threads or 1C for pans with 3/8" external threads. Using pipe dope or tape connect that fitting to burner pan tube.

Step 9) Using two 6/32 x 3/8" bolts & nuts from parts bag attach part #10 to part #11. Position pilot burner assembly (part 10) with Thermopile and pilot burner pointing toward you and parallel to each other. Position pilot burner mounting bracket (part 11) with side with slots horizontal and under the bracket of part 10. Line up 2 holes in bracket on part 10 with the 2 slots on the right side of part 11. Attach two parts together.

Step 10) Using the other two 6/32 bolts & nuts attach the #10/11 assembly to the outside back or end of burner pan. Match 2 (of 4) holes on left side of part 11 to holes in burner pan.

Step 11) Now you have a "Valve Assembly". Connect this assembly to part #3 valve mounting bracket using same holes the screws were in when you removed valve from bracket.

Step 12) Connect other end of #7 flex line (or EXT kit) that is connected to part #6 (see step 4) 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 #9 in outlet port of valve (see step #7) to flare end of fitting mounted on burner pan tube.

Step 14) Very carefully bend aluminum pilot burner tube around to front of valve. Remove brass plug just below and to the right of the control knob. 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 #10 pilot burner assembly around to terminal block on rear top of valve. Connect one lead to terminal TH/TP, the other to terminal TP.

Step 16) **FOR ALL OTHER MILLIVOLT VALVE WIRING SEE FOLLOWING PAGE 196.**

Step 17) Turn gas on to pilot, do not light, test all connections for leaks with soapy water. Leaks will cause bubbles. Do not light until no leaks can be detected.

Step 18) To light pilot, set control knob so the "L" in the word pilot lines up with the red colored post on the valve. Push knob straight in as far as it will go. Hold it in and apply flame to pilot hood every 5 to 10 seconds until it lights. Continue to hold knob in 30 to 60 seconds until pilot will stay lit when knob is released. Turn knob to "ON" position to light main burner.

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 19) **NOW IS THE TIME TO TEST ALL CONNECTIONS FOR LEAKS USING SOAPY WATER. BUBBLES AT A JOINT WILL IDENTIFY A LEAK. TURN OFF GAS AND REPAIR LEAKS. DO NOT LEAVE SET BURNING UNTIL NO LEAKS CAN BE DETECTED.**

Step 20) Slide part #2 heat shield over valve with right leg of mounting bracket sliding into notch on right side of heat shield. After pilot lights - hold control knob in for 30 to 60 seconds or until thermopile heats up enough to keep pilot lit when knob is released. When steady pilot is assured, control knob can be turned counter-clockwise to the "ON" position where log burner should start burning.

Step 21) Finish burner pan per instruction with your log set. If your fuel is LP, use vermiculite (not sand) in the burner pan.

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) Bend back of part #11 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 1/2" 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 225° 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 185°, the main burner will automatically come back on.

FOR LP GAS APPLICATIONS

Step 1) Convert #4 valve from Natural Gas to LP Gas.

- ▶ Remove plastic cap from post just in front of terminal block.
- ▶ Unscrew plug type regulator.
- ▶ Turn Regulator upside down and screw back in.
- ▶ Replace Plastic cap.

Step 2) Convert #203 pilot burner assembly to LP Gas.

- ▶ On pilot burner assembly, the pilot burner is the part with the tilted hood on top and the aluminum gas supply tube on the bottom.
- ▶ At the top end of the gas supply tube is a brass fitting.
- ▶ Unscrew that fitting.
- ▶ In the now exposed bottom end of hood fitting is a small bell shaped part. This is the natural gas orifice that is to be removed.
- ▶ Replace orifice with the one from the parts bag.
- ▶ Now your entire system is converted from Natural to LP gas.

Step 3) Using pipe dope or tape connect female end of one of the part #1A to incoming gas pipe.

Step 4) Using pipe dope or tape connect pipe thread end of part #6 to inlet port on front of valve. The port is marked "IN".

Step 5) Connect one end of #7 flex line to male flare end of part #6.

Note: If your incoming gas pipe is located on the left side or center of the fireplace, determine distance from end of #7 flex line to incoming gas pipe. Get EXT 18, EXT 24 or EXT 30 from dealer to span that distance. Using brass union in this kit connect the flex line in this kit to #7 flex line.

Step 6) Using pipe dope or tape, connect pipe thread end of part #9 to outlet port on back of valve.

~~Step 7) Connect one end of the second #7 flex line to the flare end of part #9.~~

Step 8) Select one of three parts to connect to burner pan. Use #1C to connect to pans with 3/8" external threads. 1F for pans with 3/8" internal threads and 1G for pans with 1/2" external threads. Using pipe dope or tape connect that fitting to burner pan.

Step 8A) If you selected part 1C proceed to Step 9.

Step 8B) If you selected either 1F or 1G to mount on burner pan - NOW, using pipe dope or tape connect part 1E air mixer orifice to 1F or 1G. Then, using pipe dope or tape, connect part 1D adapter to part 1E air mixer/orifice.

Now, go back to Step 9 on Page 2.