

Must have information:

Customer Name
Customer Address
Install Date
Model #
Serial #
Type of gas

Thermocouple (mV)
Millivolt reading
disconnect from valve

Valve Check
Ohms "TH" "TP"
Ohms "TP" "THTP"

Thermocouple (mV)
Millivolt reading connected to valve
Peak reading pilot only
Peak reading burner only

Gas Pressure (w.c)
Inlet pilot only
Manifold burner on

Minimal Tools list

Gas Sniffer
Manometer
Voltmeter
w/ straight sensors
w/ gator clip sensors
Small flat screwdriver
Phillips screwdriver
Small adjustable wrench
Med adjustable wrench
Batteries
9V, AA, AAA
Wiring pliers
Flashlight
Drop cloth
Needle nose pliers
Teflon tape
Pipe joint compound
Towels
Compressed Air



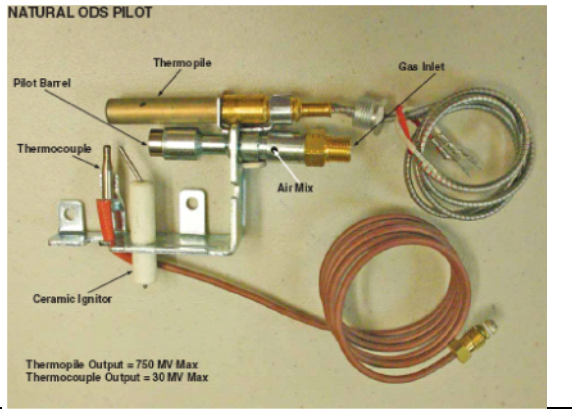
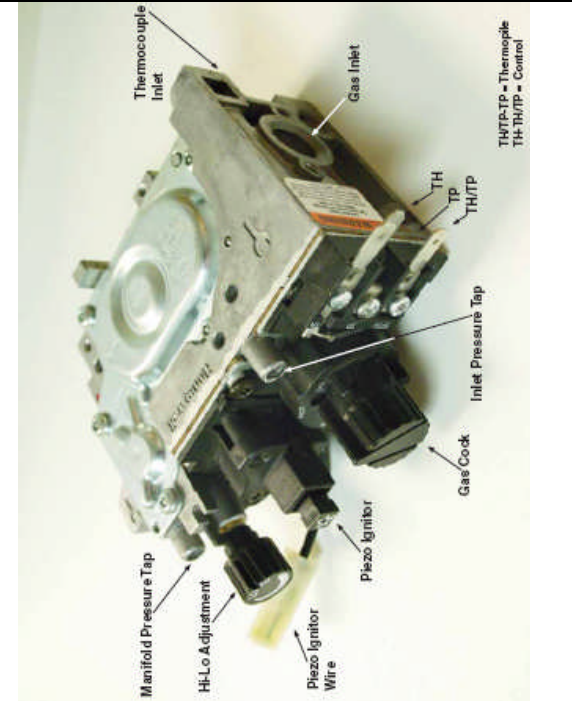
PMA Outdoor



**Pocket
Troubleshooting
Guide**

Honeywell Vent-Free Millivolt Gas Valve Check

Test Title	Connect Multimeter between terminals	Set Thermostat	Meter Reading Should Be:	Procedure
Coil Resistance	TP and TH	Open	Max of 3.6 ohms	Have thermostat contacts open and Pilotstat knob turned to OFF. If coil resistance exceeds 3.6 ohms, replace the valve.
Thermopile	TP and TPTH	Open	Min of 460 mV.	Have thermostat contacts open and the pilot lit with Pilotstat knob turned to PILOT. If the reading is less than 460 mV, replace thermopile.
Thermocouple	Tip and ground	Open	Min of 12mV.	Have thermostat contacts open and pilot lit with Pilotstat knob turned to PILOT. Reading should be a min of 12 mV in a new ODS pilot burner assembly. If the reading is less than 12 mV, replace the ODS pilot burner assembly. The power unit will hold in down to 3 mV. If the output of the thermocouple is less than 3 mV, replace the ODS pilot burner assembly
Operator Pull-in	TH and TP	Open	Min of 155mV.	Have thermostat contacts open and pilot lit with Pilotsat knob turned to PILOT. Close the thermostat contacts. Operator will pull in with a minimum of 155 mV. Operator makes audible sound during pull-in. If pull-in does not occur, replace the valve.
Resistance System	--	Closed	Max of 1.7 ohms	System resistance from the remote switch or thermostat and lead wires should not exceed 1.7 ohms. If resistance is above 1.7 ohms, reduce the resistance.



Honeywell Vent-Free Millivolt Gas Valve Check

		Natural	Propane
Gas Inlet Pressure	Minimum	5.0" W.C.	11.0" W.C.
	Maximum	10" W.C..	13.0" W.C.
Manifold Pressure	High	3.5" W.C.	10.0" W.C.
	Low	1.7" W.C.	4.9" W.C.