



Heater Troubleshooting

1-30-07

Always check for proper water column on inlet gas and manifold gas pressure!

Testing for Faulty Airswitch

1. Safest Way- (Fooling the airswitch)

Find vinyl line that goes out of airflow switch to barb near igniter. Disconnect at barb. Let hang. Try to run unit. If unit runs normally the airswitch is faulty.

2. Not Safest Way- (Fooling the airswitch)

Unhook the 2 wired that connect to airswitch. Jump the wires together. If the unit runs normally, then the airswitch is faulty.

WARNING!

These wires are 115V. and will cause electrocution if improperly done.

Important!

For units that have been installed and working in the past.

If you have a unit that is acting up and it is not giving you consistent operation (results) then check the snubber in the vinyl line that comes out of the airflow switch referred to above. It is an aluminum round piece that has a hole in the center of it. If the hole is plugged with moisture or contamination, then it will cause inconsistent operation.

Testing for Faulty IDC Box

1. Check for voltage coming out of IDC box to Gas Valve (2 terminals)
Shut off heater by thermostat and hook up volt-a-meter to wires. Turn on heater via thermostat. If you do not have 115V. Then IDC box is faulty.

Testing for Faulty Gas Valve

1. Check for voltage coming out of IDC box to Gas Valve (2 terminals)
Shut off heater by thermostat and hook up volt-a-meter to wires. Turn on heater via thermostat. If you have 115V. Then gas valve is faulty.

Premature Failure of Gas Valve and IDC Box.

1. Polarity Problems

It is very important to make sure that the main power leads coming into the heater are correct in polarity. Failure to have correct polarity will create premature failure of the IDC Box, Gas Valve and/or the pressure switch.

2. Stray Voltages

Stray voltages through either the common wire lead coming in to the heater or ground wire will also cause premature failure of the IDC Box, Gas Valve and/or the pressure switch. Make sure that both of these do not have stray voltage running through them.

3. Ground Wire Fault

Heaters without a proper ground will also have premature failure of IDC Box, Gas Valve and/or the pressure switch. Ensure that the unit is properly grounded to a reliable ground or back to the control panel with reliable ground.