

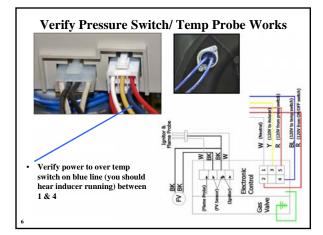


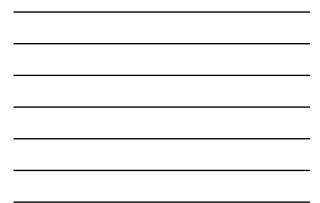
Inducer comes on

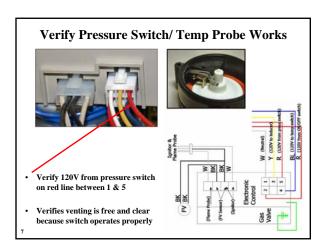
• Is the inducer running?

- Pushes exhaust gas thru venting
- Add dilution air to cool gas to work in PVC pipe







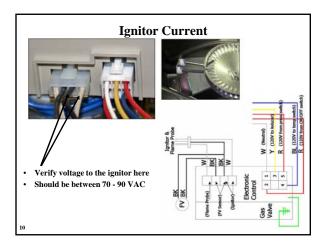








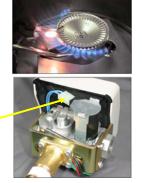






Main Burner

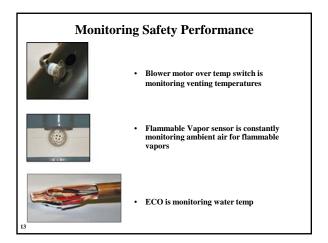
- Gas valve opens
- Main burner comes on
- Remember there is no pilot of any kind with the White Rodgers system!
- Measure for @ 105 volts DC to verify power to the gas valve solenoid



Main Burner Flame Performance

- Water is heated to thermostat setting
- Flame probe monitors flame
 presence
- Flame is rectified at @ 4 micro amps DC
- Clean flame probe with steel wool if needed





Thermostat is Satisfied

- Thermostat is satisfied
- Suspends power to the ignition circuit
- Blower motor conducts post
 purge
- Water heater in stand by



 FV Sensor is constantly monitoring ambient air – even when the burner is OFF!







Lockout and Resets

- Timed lockout resets after 1 hour
- 3 auto resets max; then hard lockout
- Hard lockout must cycle power to the control to reset (human intervention)
- Permanent lockout Flammable vapor sensor or control failure

• 7 of 15 errors caused by "Internal Diagnostics" failures

7).	GAS VALVE CIRCUIT ERROR	ON	OFF	OFF	OFF	ON	ON
8).	DATA RETENTION ERROR	ON	OFF	ON	ON	ON	OFF
9).	INTERNAL FAULT / POWER UP	ON	ON	ON	ON	ON	ON
11).	OPEN ECO	ON	OFF	OFF	ON	ON	ON
12).	TEMP. ADJ. BUTTON STUCK CLOSED	ON	OFF	ON	ON	OFF	OFF
13).	OPEN / SHORTED THERMISTOR	ON	OFF	ON	ON	OFF	ON
15).	FLAMMABLE VAPORS DETECTED	ON	OFF	OFF	OFF	OFF	ON

