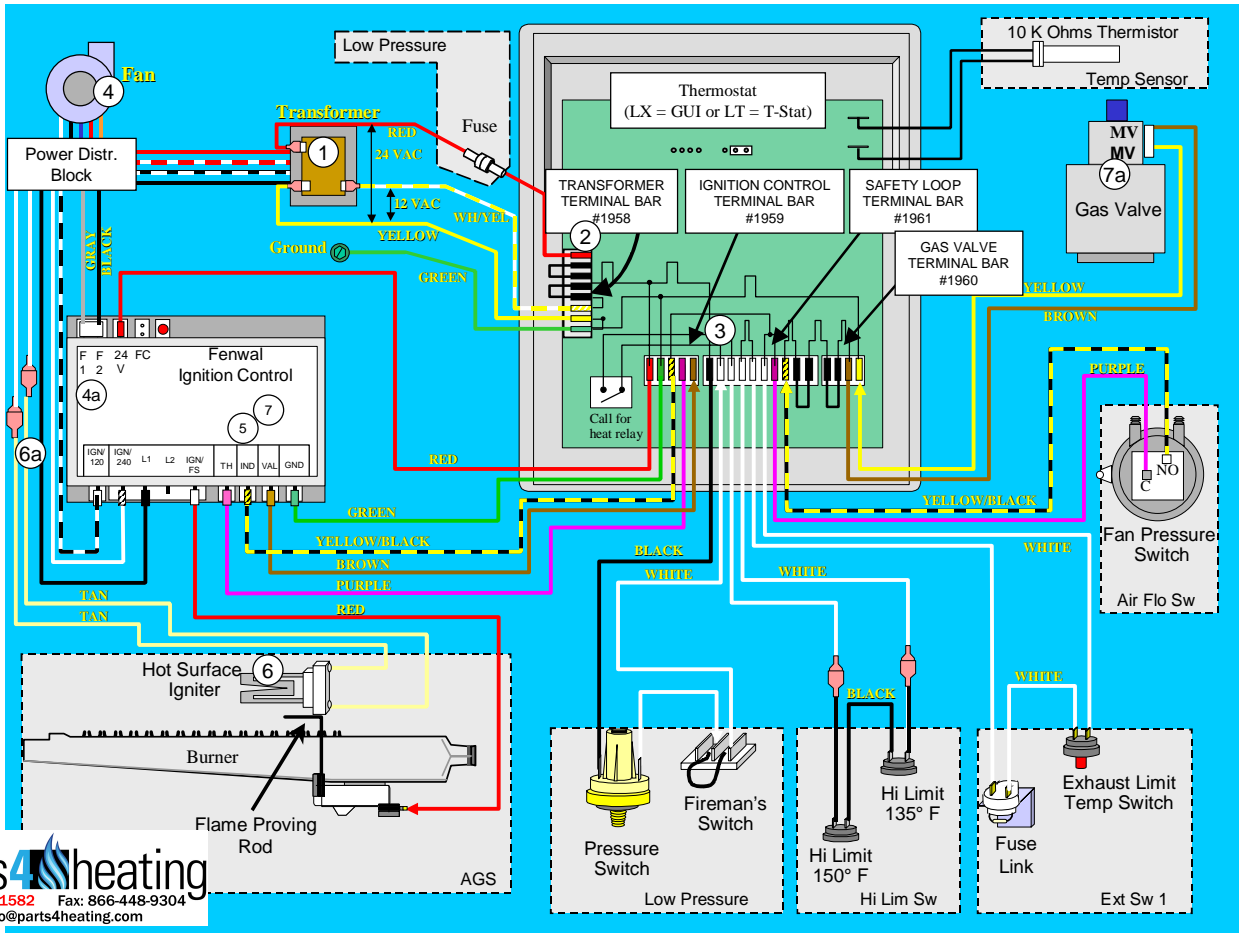


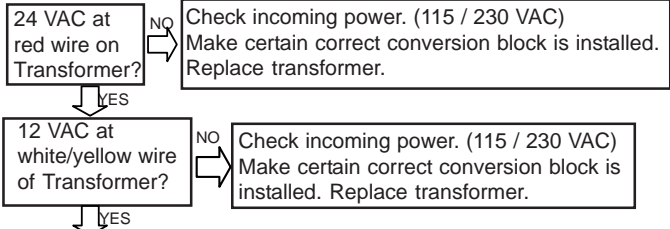
LX OR LT TROUBLESHOOTING w/Digital Ignition Control



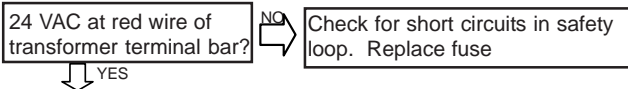
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 800-536-1582 Fax: 866-448-9304
 info@parts4heating.com

For 24 VAC tests, common probe (black) can be left on yellow wire of transformer or any chassis ground.

STEP 1 - Check Transformer

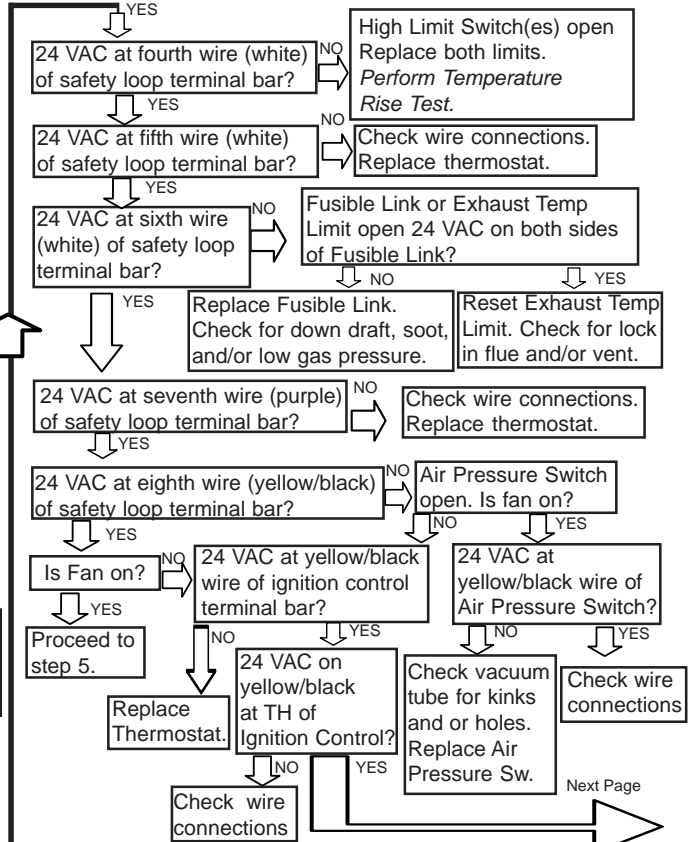
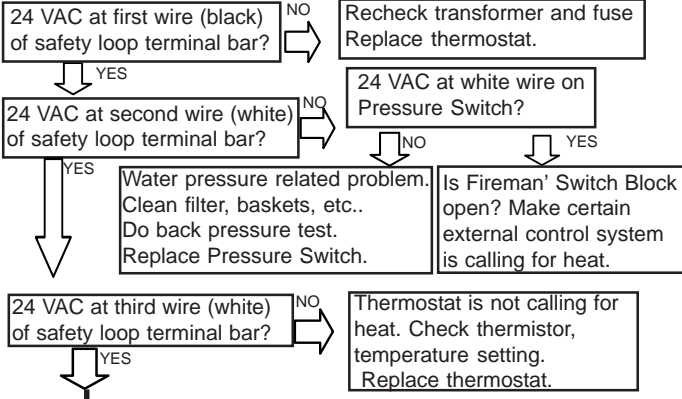


STEP 2 - Check Fuse



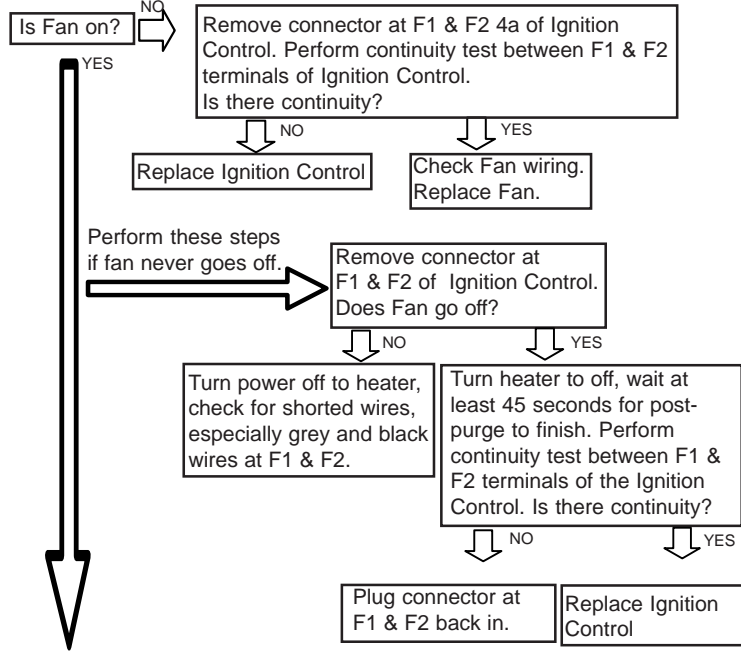
STEP 3 - Check Safety Loop

Note: If fan is on skip to Step 4 at top of page 2.

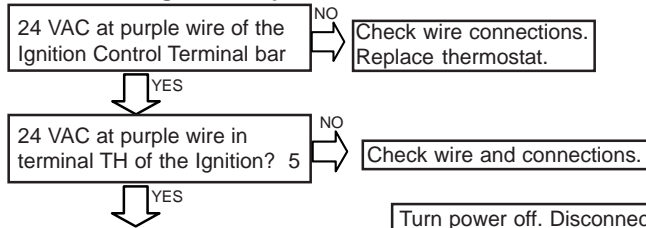


Next Page

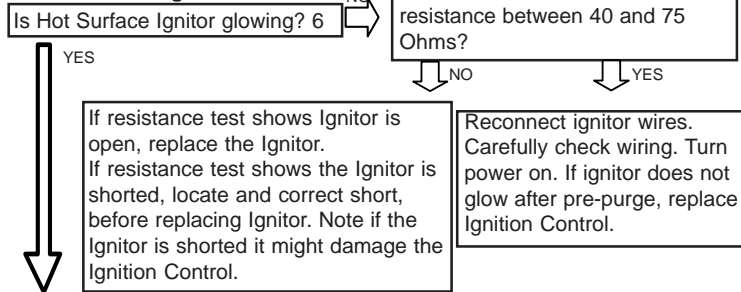
STEP 4 - Check Fan



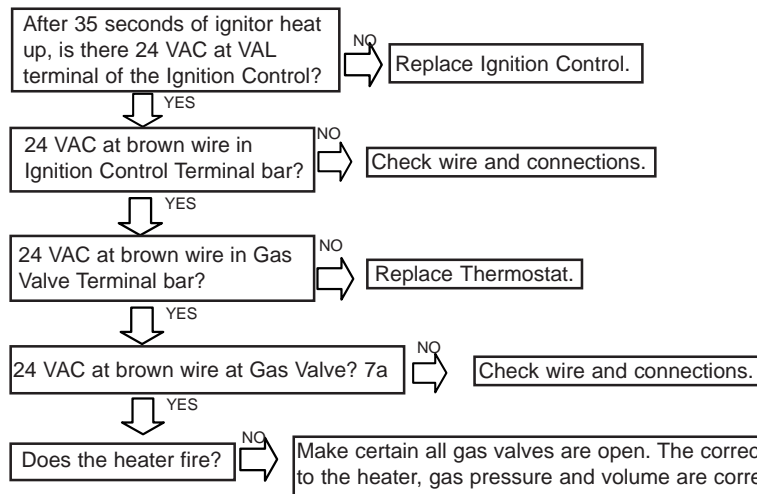
STEP 5 - Start Ignition Sequence



STEP 6 - Check Ignitor



STEP 7 - Check Gas Valve



SERVICE CODES

LOW PRESSURE - Water pressure related problem or blown fuse. Clean filter and all baskets. *Do a back pressure test.*

Check Fuse. If the fuse is blown, check for short circuits in the control wiring.

HI LIM SW. Low water flow problem. High limit(s) open.

Replace limit(s), do a *Temperature Rise Test.*

EXT. SW. 1 - Fusible Link or Exhaust Temp.

Limit Switch open. Too much heat in the cabinet (Fusible Link) or flue (Exhaust Temp. Limit Switch).

Fusible Link open; check for sooted heat exchanger, low gas pressure, down draft condition and or water flow problem. Do a *Gas Pressure Test* and *Temperature Rise Test.* Exhaust Temp Limit Switch check for blockage of vent.

AIR FLOW SW - Insufficient vacuum to close the air pressure switch. Make certain the fan is running. Check the air hose from the fan to the Air Pressure Switch for holes and kinks. If the fan never switches to high speed replace the Ignition Control.

AGS - Automatic Gas Shutdown simply means the Ignition Control did not sense flame rectification. Make certain all gas cocks are open, and there is sufficient gas pressure and volume (gas line sized properly). If the heater fires and then the flame goes out quickly, it indicates the rectification signal is not returning to the Ignition Control. Check for poor or missing ground wire.

Temp Sensor - Water temperature sensor open or shorted. The sensor is a 10 K Ohms thermistor. A sensor failure may indicate poor water chemistry. Carefully test the water, concentrating on Total Alkalinity and pH.

TEMPERATURE RISE

MODEL	TEMP. DIFF.	
	MINIMUM	MAXIMUM
LX or LT	250	28
	400	40

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