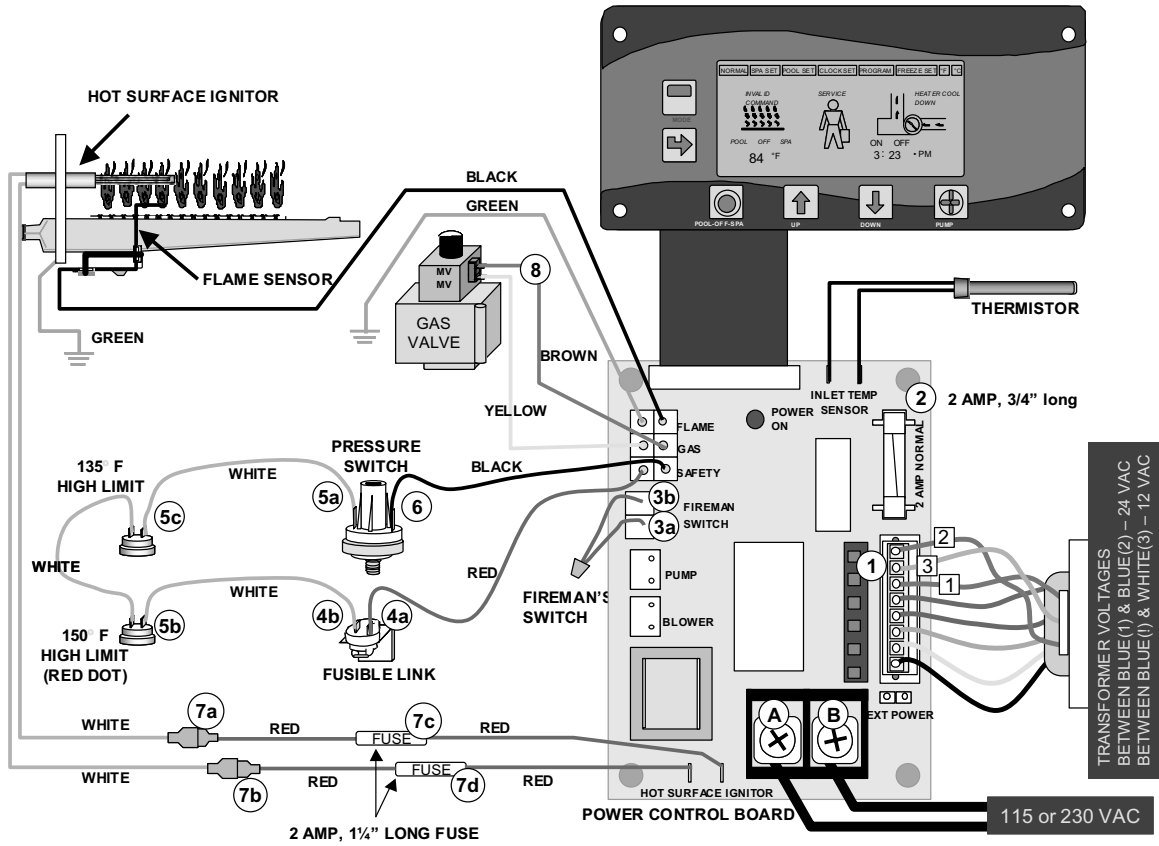
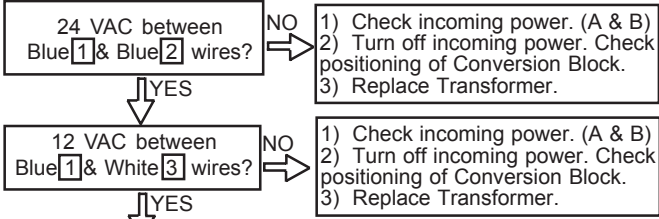


# LITE 2 LJ TROUBLESHOOTING

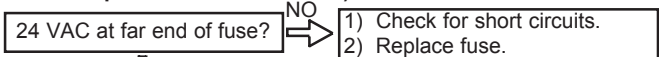


**For error codes and thermostat troubleshooting, refer to the installation manual.**

**STEP 1 - Check Transformer - Set meter to ACV above 240**

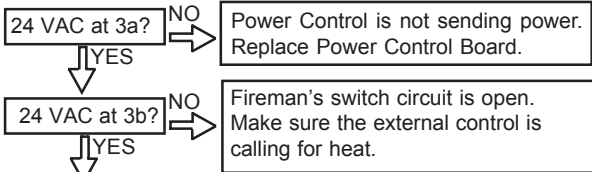


**STEP 2 - Check Fuse (insert common probe in with blue 1 wire, touch other probe to far end of fuse)**

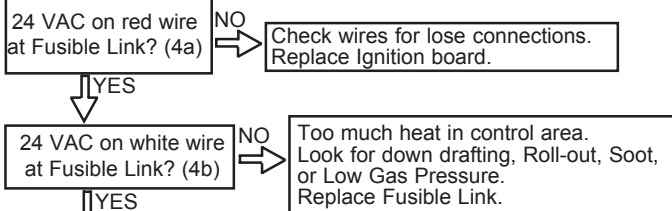


**For the next tests insert and leave the common probe in with the blue(2) wire.**

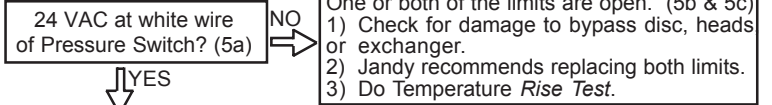
**STEP 3 - Check Fireman's Switch Circuit**



**STEP 4 - Check Fusible Link**



**STEP 5 - Check High Limits**

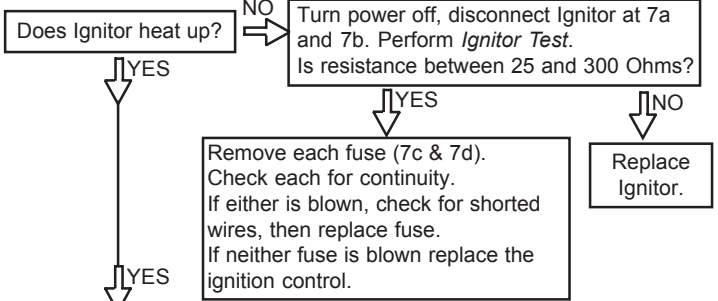


**STEP 6 - Check Pressure Switch**



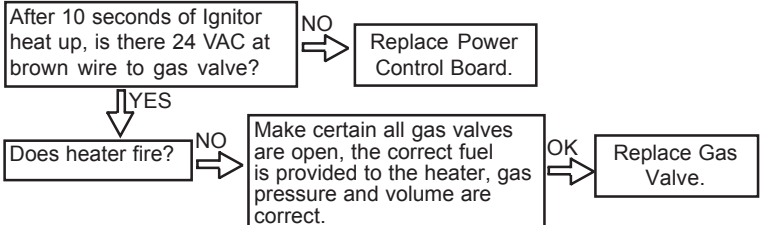
**For Ignitor Test, remove common probe from blue(2) wire.**

**STEP 7 - Check Hot Surface Ignitor**



**For Gas Valve test reinsert the common probe in with the blue(2) wire.**

**STEP 8 - Check Gas Valve**



## Temperature Rise Test Chart

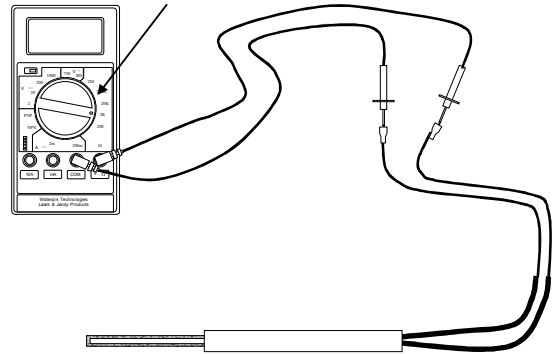
MODEL	Btus	Temperature Rise	
		MINIMUM	MAXIMUM
Lite 2 LJ, Laars Lite 2, Laars Lite, Series 2 & Series 1 with 2" header connections	125	27	36
	175	33	42
	250	33	42
	325	28	38
	400	30	39
Series 1 with 1½" header connections	125	22	28
	175	24	36
	250	24	38
	325	28	38
	400	30	38

## Hot Surface Ignitor Test

Ignitor must be disconnected from the Ignition Control and should be cool to the touch.

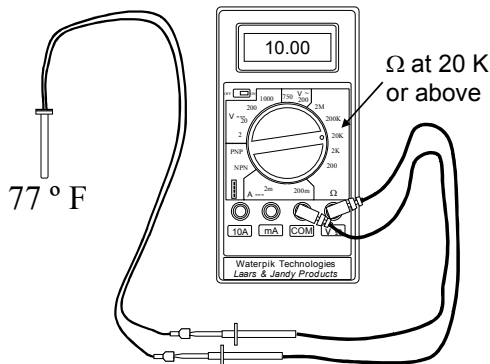
Depending on the temperature of the ignitor, the resistance between the two leads of a good ignitor will be 25 to 300 Ohms, typically 60 to 80 Ohms.

Set meter to test resistance.



## Thermistor Test

Remove thermistor leads from ignition board. Set meter to test resistance above 20 K Ohms. Using chart at the right, compare the actual water temperature to the resistance reading to determine if the thermistor is OK.



## Thermistor Test Chart

Temp	Resistance	Temp	Resistance
50° F	19.898 K Ohms	78° F	9.735 K Ohms
51° F	19.435 K Ohms	79° F	9.483 K Ohms
52° F	18.871 K Ohms	80° F	9.284 K Ohms
53° F	18.382 K Ohms	81° F	9.079 K Ohms
54° F	17.902 K Ohms	82° F	8.864 K Ohms
55° F	17.473 K Ohms	83° F	8.655 K Ohms
56° F	16.988 K Ohms	84° F	8.450 K Ohms
57° F	16.549 K Ohms	85° F	8.253 K Ohms
58° F	16.150 K Ohms	86° F	8.057 K Ohms
59° F	15.710 K Ohms	87° F	7.871 K Ohms
60° F	15.314 K Ohms	88° F	7.687 K Ohms
61° F	14.923 K Ohms	89° F	7.509 K Ohms
62° F	14.547 K Ohms	90° F	7.335 K Ohms
63° F	14.193 K Ohms	91° F	7.166 K Ohms
64° F	13.823 K Ohms	92° F	7.001 K Ohms
65° F	13.477 K Ohms	93° F	6.840 K Ohms
66° F	13.138 K Ohms	94° F	6.685 K Ohms
67° F	12.813 K Ohms	95° F	6.531 K Ohms
68° F	12.492 K Ohms	96° F	6.384 K Ohms
69° F	12.186 K Ohms	97° F	6.238 K Ohms
70° F	11.893 K Ohms	98° F	6.099 K Ohms
71° F	11.593 K Ohms	99° F	5.963 K Ohms
72° F	11.309 K Ohms	100° F	5.829 K Ohms
73° F	11.032 K Ohms	101° F	5.700 K Ohms
74° F	10.765 K Ohms	102° F	5.572 K Ohms
75° F	10.502 K Ohms	103° F	5.449 K Ohms
76° F	10.250 K Ohms	104° F	5.327 K Ohms
77° F	10.000 K Ohms		

### Error Codes

- FL1 - Temperature Sensor Error
- FL 2 - No Ignition or No Flame
- FL 3 - Flame Sensor Error
- FL 4 - Ignitor Failure
- FL 5 - Brownout Condition
- FL 6 - Power Control Failure
- FL 7 - Remote Operation Circuit