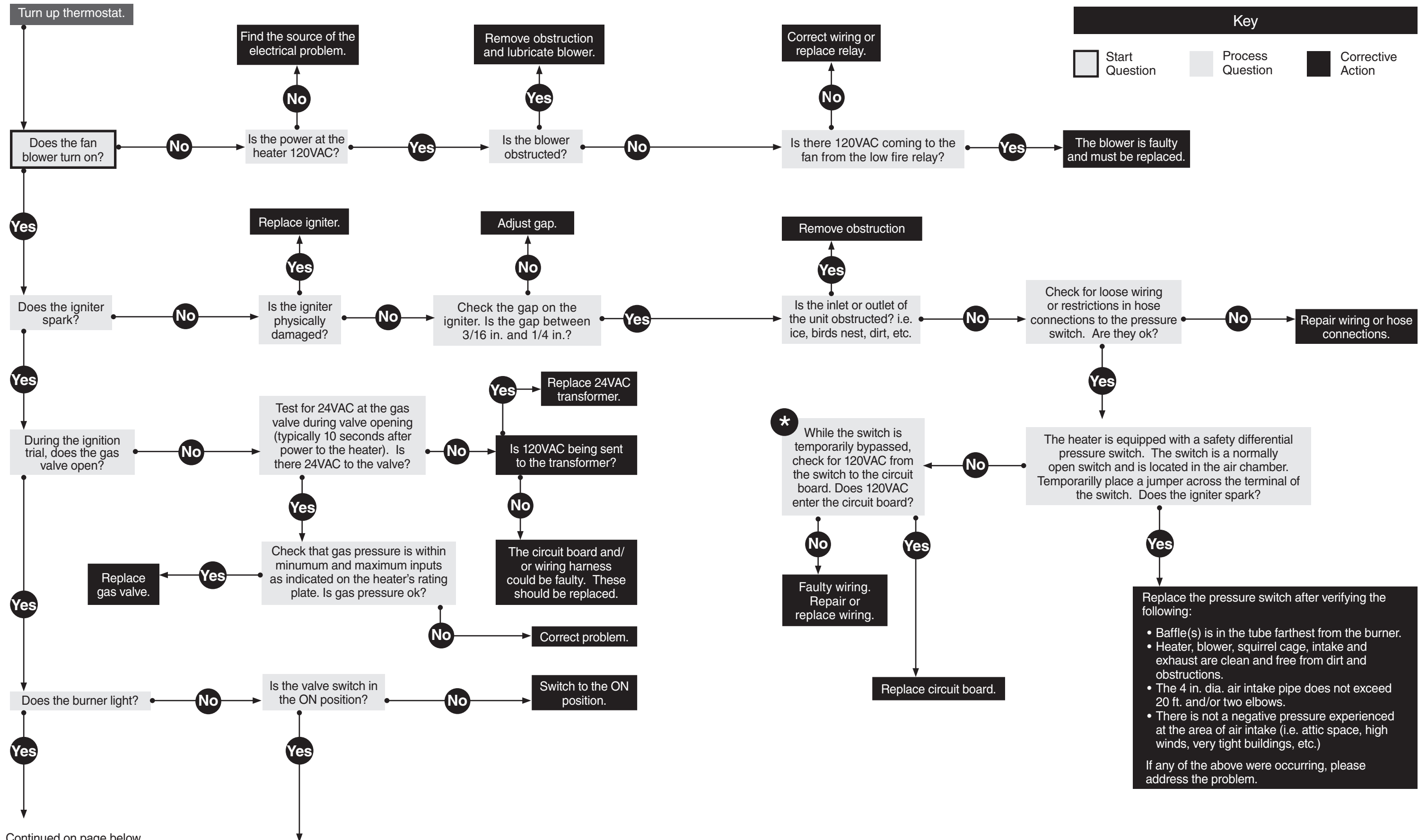


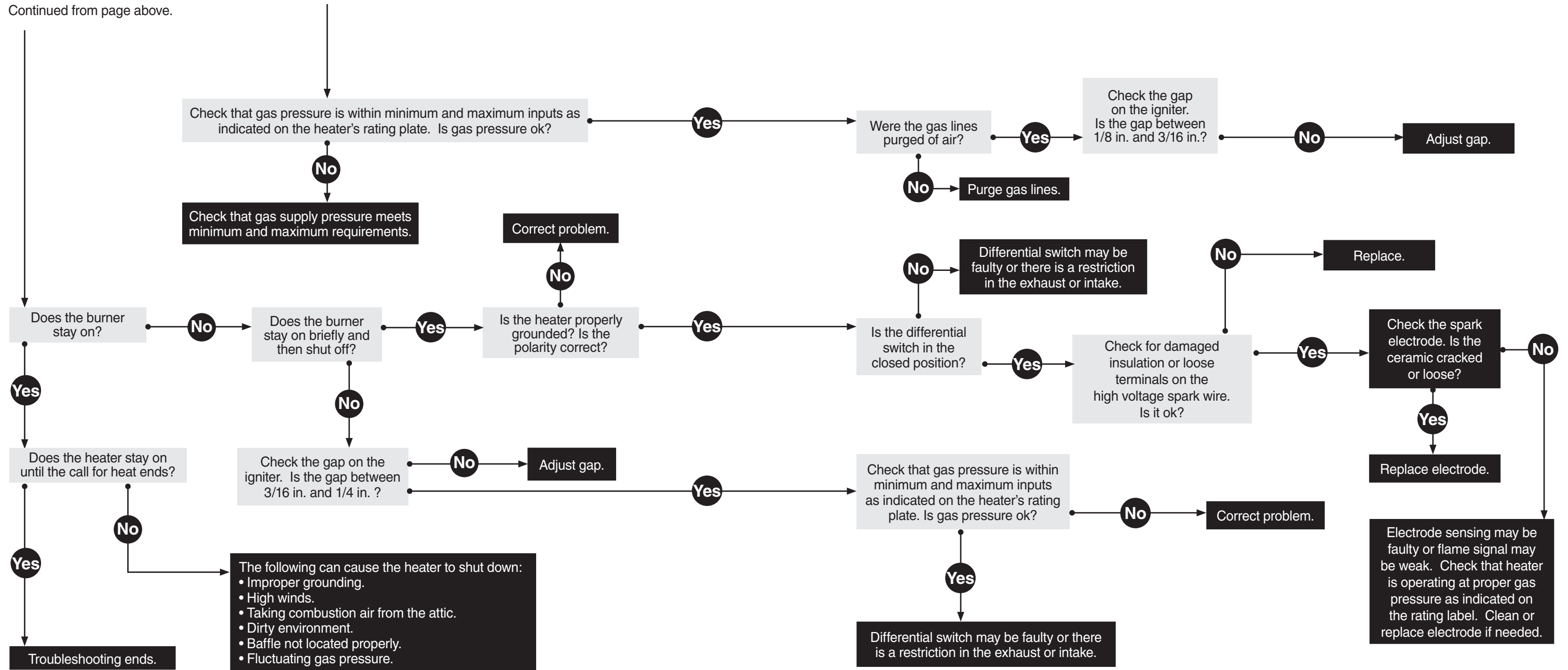
# Troubleshooting Guide DET3

## \*NOTICE

Bypassing any switch is intended for testing purposes only. Do not leave switch bypassed during normal operation or the heater's built-in safety mechanisms will be compromised.

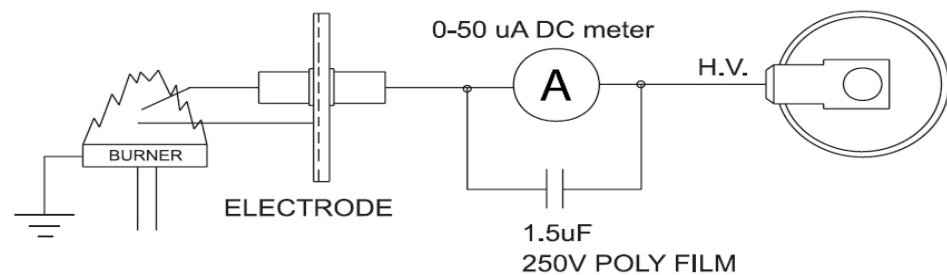


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### Flame Current Check: Single Spark & Sense

To measure flame current, disconnect input voltage, then insert a 0-50  $\mu\text{A}$  DC meter and capacitor in series with the spark electrode as shown below. Reconnect input voltage and initiate call for heat. After sparking is complete and flame is established, meter should read 1.0  $\mu\text{A}$  or higher while flame is established. If meter reads below "0" on the scale, meter leads are reversed. Disconnect power and reconnect meter lead for proper polarity.



If heater does not enter high fire mode, check the following:

**NOTE:** To confirm the heater is not in high-fire mode, check the manifold pressure (3.5 inches W.C. natural gas or 10 inches W.C. propane gas). If the indicator light is not illuminated, it is faulty and should be replaced. If the manifold pressure ranges from 2.3 to 2.8 inches W.C. natural gas (model dependent) and 6.0 to 7.5 inches W.C. propane gas (model dependent), the heater is in low fire mode and the troubleshooting steps described below should be followed.

