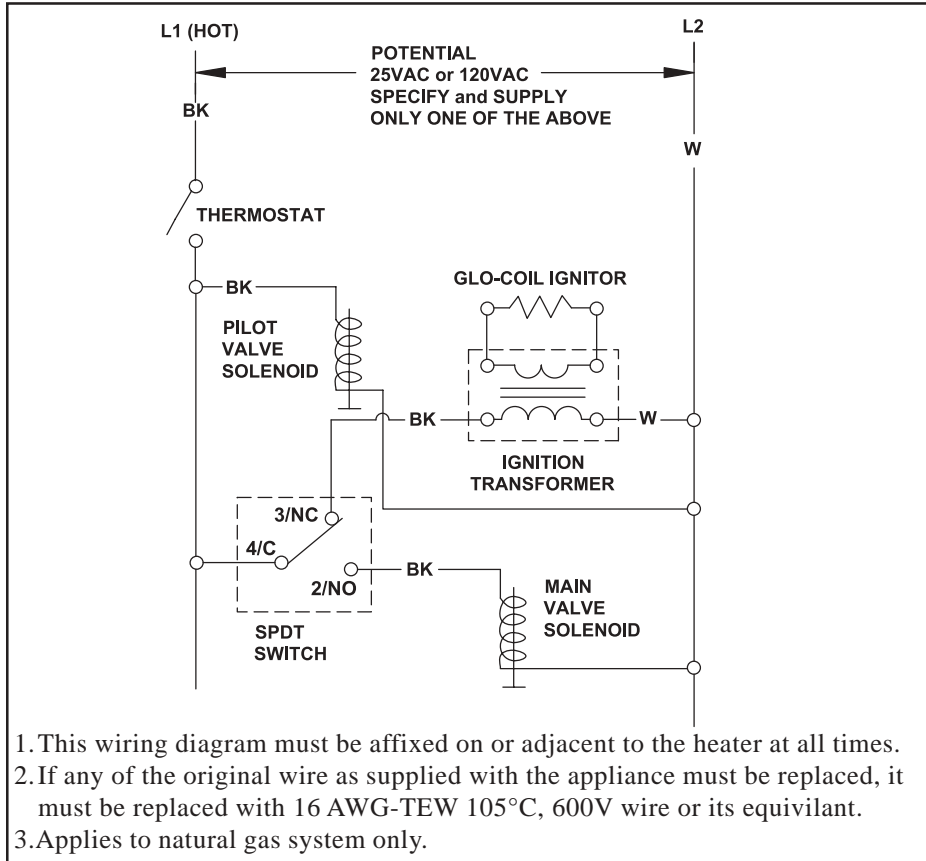


DETROIT RADIANT PRODUCTS CO.

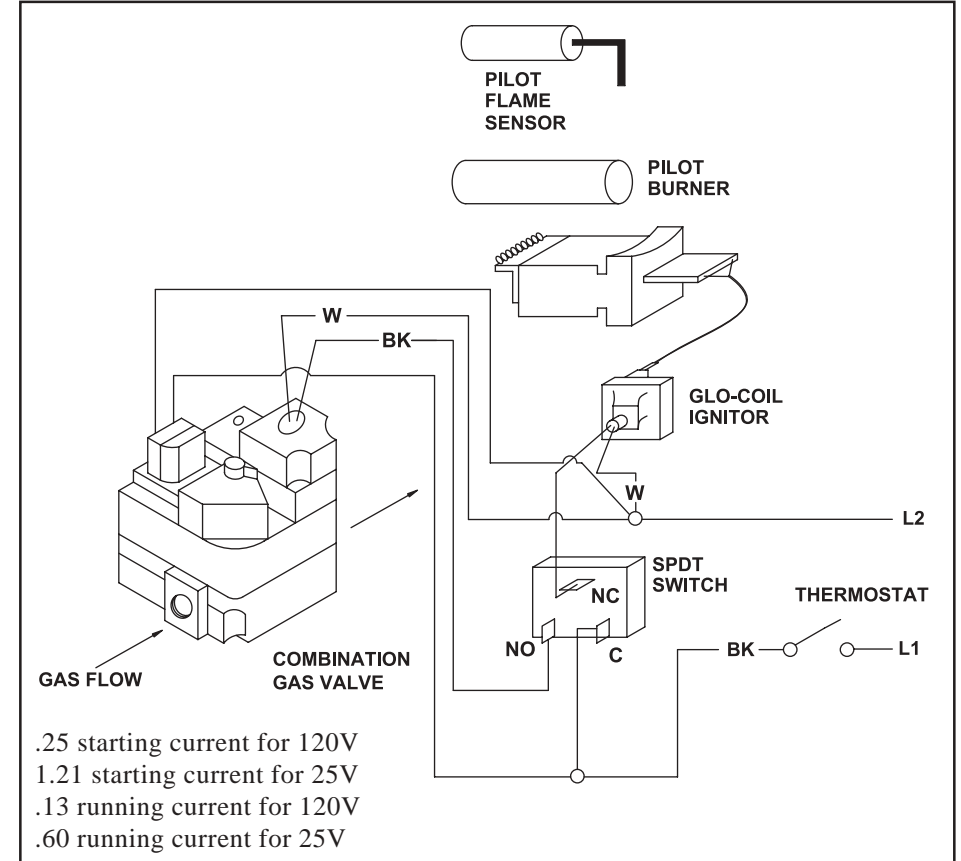
Wiring Diagram for Suffix NGCI-3 25V and 120V

(Pilot Sensing Element - SPDT Mercury Element, Cycle Pilot Operation)

TYPICAL WIRING SCHEMATIC



TYPICAL BLOCK DIAGRAM



DETROIT RADIANT PRODUCTS CO.

Wiring Diagram for Suffix NGCI-3 25V and 120V

(Pilot Sensing Element - SPDT Mercury Element, Cycle Pilot Operation)

Normal Sequence of Operation

1. Upon closing of the electrical circuit, (usually thermostat), the following occurs:
 - A) The glo-coil transformer is energized, lighting the pilot burner glo-coil assembly.
 - B) The pilot solenoid on the gas valve is energized, supplying gas to the pilot burner.
2. The pilot burner is lighted and heats up the mercury filled sensing element.
3. Heating of the sensing element switches power from the glo-coil transformer to the main solenoid on the gas valve, supplying gas to the main burner and shutting off glo-coil.
4. The pilot solenoid remains energized through the initial closed circuit.
5. When the electrical circuit is opened, both the pilot and the main burner(s) are shut off.

